

# VEHICLE SERVICE EQUIPMENT

Buyer's Guide



M O V I N G   M A T E R I A L S   T H A T   M A T T E R ™





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# ABOUT GRACO

## 100 YEARS OF MOVING MATERIALS THAT MATTER – TOGETHER

For a century, Graco has partnered with customers to solve complex challenges and deliver trusted solutions. From the first air-powered grease gun to today's smart, sustainable systems, our commitment to innovation and quality has never wavered. This centennial marks a legacy of collaboration, reliability, and progress. As your needs evolve, so do we – investing in technology, expanding our capabilities and staying focused on what matters most: helping you succeed.

Thank you for being part of our journey. The next 100 years start now – and we're honored to move forward with you.



### A History of Innovative Lubrication Solutions

The Gray brothers launched Graco to manufacture and market an air-powered, portable lubricator invented by Russell Gray while he was working as a parking lot attendant. The idea emerged as he struggled with a manual grease gun in freezing Minneapolis temperatures that turned grease into thick sludge. Over time, growing demand for lubrication equipment pushed the brothers to develop larger, specialized lubricators. Graco soon became a leader in the lubrication equipment industry.





Today, Graco manufactures equipment to monitor, control, manage and dispense fluids, providing innovative solutions for vehicle service, industrial and automatic lubrication needs. Our commitment is to keep your equipment running at peak performance.

Graco automatic lubrication solutions deliver optimal machine performance by lubricating key wear points with the right amount of lubricant, at the right time and in the right location. Graco offers automatic lubrication solutions for industrial, on-road mobile, off-road mobile and energy applications, among others. From light-duty uses to high-performance systems designed for heavy-duty jobs, Graco equipment is known for rugged, durable, long-life design.

Whether servicing vehicles, operating heavy equipment, performing maintenance repairs, working on an oil rig or running manufacturing lines, customers rely on Graco as a trusted source to help maximize profitability every time.



# DID YOU KNOW?

**Graco also manufactures and sells a complete line of automatic lubrication systems and accessories!**



Keep your equipment running at peak performance. Graco automatic lubrication solutions give you the ultimate machine performance by lubricating key wear points – the right amount of lubricant, at the right time, in the right location. Graco has automatic lubrication solutions for the industrial, on-road mobile, off-road mobile, energy industries and more.



Visit [graco.com/autolube](http://graco.com/autolube)

## Graco Resources

Graco has developed tools and resources to help educate and better serve our distribution channel. Check them out today:

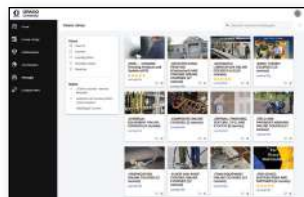


### Graco Sales Book

Stay up-to-date with the newest information from Graco by downloading the Graco Sales Book App.

Graco Sales Book is an innovative mobile application, designed to give Distributors access to Graco product information, including brochures, instruction manuals, videos and training documents – all on your mobile device.

Download today by visiting [salesbook.graco.com](http://salesbook.graco.com)



### Graco University

Graco University is an e-learning module that can be accessed online, anytime, and contains assets that help educate you on Graco products.

This innovative online learning program gives the tools to stay on the leading edge with a variety of resources such as virtual and instructor led courses, online books, live and on-demand video presentations, and much more.

Learn more today at [training.graco.com](http://training.graco.com)



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Graco Gear is your one-stop shop for branded merchandise and other tools that will help you build customer relationships.

Order shirts, hats, banners, and more whenever you need! You can even add your logo for a small fee. Most orders ship next day.

Start shopping today at [gracogear.com](http://gracogear.com)



# FLUID MANAGEMENT SYSTEMS

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**GRACO**

0-30 meter

**0.000**  
QUARTS

ACTIVATE

# FLUID MANAGEMENT SYSTEM SELECTION GUIDE

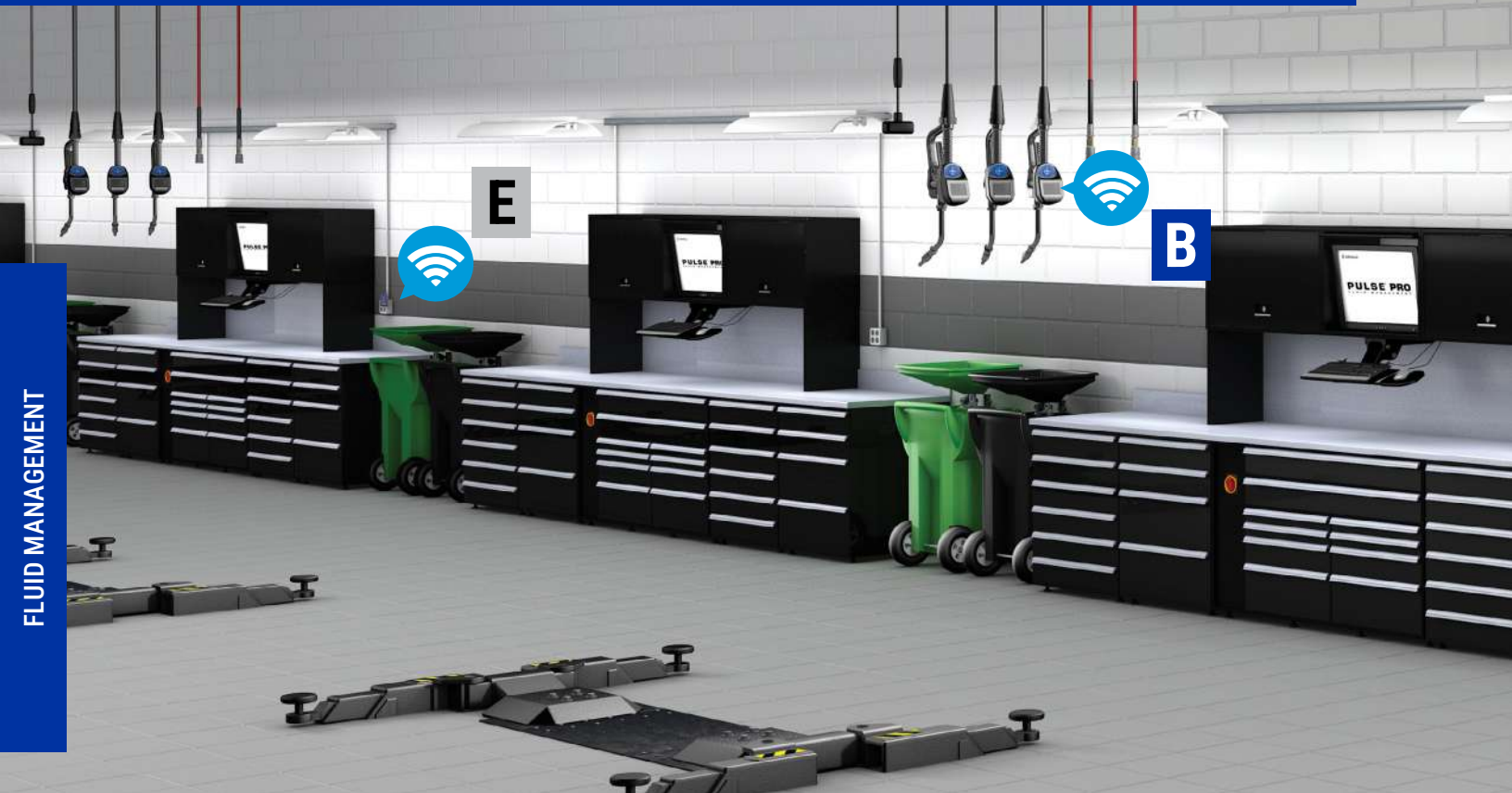


## CHOOSING A GRACO FLUID MANAGEMENT SOLUTION

| FEATURE                                                                                                                                       | TRADITIONAL BOX | PULSE FC | PULSE PRO | PULSE ASSET |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------|-----------|-------------|
| <b>CONTROL.</b> Regulate the amount of fluid that's dispensed to reduce spillage and waste.                                                   |                 |          |           |             |
| Allow control of dispenses                                                                                                                    | •               | •        | •         | •           |
| Restrict the quantity of fluid                                                                                                                | •               | •        | •         | •           |
| Ensure correct amount of fluid                                                                                                                | •               | •        | •         | •           |
| <b>METERS.</b> Put control into the hands of your technicians and maintenance teams so they can be more productive, accurate and accountable. |                 |          |           |             |
| Works with petroleum, synthetic based oils, antifreeze                                                                                        | •               | •        | •         | •           |
| Works with windshield wash solvent                                                                                                            | •               |          | •         | •           |
| Meter displays quantity dispensed                                                                                                             |                 | •        | •         | •           |
| Fluid measured at dispense point (highly accurate)                                                                                            |                 | •        | •         | •           |
| Record dispenses offline then sync to HUB when connected                                                                                      |                 |          |           | •           |
| <b>INSTALLATION.</b> Seamless integration simplifies dispenses without compromising workflows or productivity.                                |                 |          |           |             |
| Works with oil bar                                                                                                                            | •               | •        | •         | •           |
| Wire-free installation                                                                                                                        |                 | •        | •         | •           |
| Wireless communication                                                                                                                        |                 |          | •         | •           |
| Pump air control (PAC)                                                                                                                        | •               |          | •         | •           |
| <b>FLEXIBILITY.</b> Accommodate emerging demands to maintain or expand productivity and profitability.                                        |                 |          |           |             |
| Works with mobile roll-around packages                                                                                                        |                 | •        | •         | •           |
| Easy expansion with additional fluids                                                                                                         |                 | •        | •         | •           |
| Easy upgrade to comprehensive fluid management                                                                                                |                 | •        | N/A       | N/A         |
| <b>USER INTERFACE.</b> Access the information necessary to make more informed decisions quickly.                                              |                 |          |           |             |
| Simple PC-based software                                                                                                                      |                 | •        |           |             |
| No software to install                                                                                                                        |                 |          | •         | •           |
| Accessible from any PC, phone or tablet                                                                                                       |                 |          | •         | •           |
| <b>FLUID MANAGEMENT.</b> Improve accountability for your entire operations.                                                                   |                 |          |           |             |
| Track dispenses by invoice, work order or asset                                                                                               |                 |          | •         | •           |
| Track dispenses by technician                                                                                                                 |                 |          | •         | •           |
| Record fluid type and quantity dispensed                                                                                                      |                 |          | •         | •           |
| Keeps technician in service bay                                                                                                               |                 |          | •         |             |
| <b>FLUID INVENTORY.</b> Simplify how you re-order and store inventory to minimize delays.                                                     |                 |          |           |             |
| Monitor tank levels (TLM)                                                                                                                     |                 |          | •         | •           |
| Dealer Management Solution (DMS) integration                                                                                                  |                 |          | •         | •           |
| <b>REPORTING.</b> Capture critical information and insights to simplify decision-making.                                                      |                 |          |           |             |
| Print on dispense                                                                                                                             |                 |          | •         | •           |
| Automated customizable reports                                                                                                                |                 |          | •         | •           |
| Automated alerts to simplify inventory tasks                                                                                                  |                 |          | •         | •           |
| Software updates                                                                                                                              |                 | •        | •         | •           |
| Permanent record of all dispenses or authorizations                                                                                           |                 | •        | •         | •           |

# PULSE® PRO FLUID MANAGEMENT

Pulse® Pro Fluid Management simplifies how forward-thinking shops track and manage bulk fluids in real time – adding more transparency and accountability to drive productivity and profitability.



## BENEFITS OF PULSE PRO FLUID MANAGEMENT



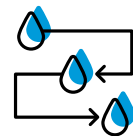
**Transparency.** Monitor every drop, every time – automatically – and minimize shrinkage, rounding and discrepancies.



**Accountability.** Track issues to the source via advanced technology, including automated alerts and customizable reports.



**Integration.** Capture data, integrate it with popular DMSs and share it with other stakeholders quickly.



**Portability.** Pair with mobile dispense units and drums easily to reduce extra steps and hassles for technicians.



**Scalability.** Add Pulse into almost any environment quickly, and even retrofit applications or multiple buildings within the same facility.



**Accurate billing.** Automatically assign every ounce of fluid directly to a work order to simplify billing and maximize profit margins.



**Simplicity.** Avoid surprises, interruptions and delays. Fluids are tracked and recorded instantly and automatically.



**Inventory management.** Monitor fluid inventory and schedule refills to minimize delays and excessive costs.



FLUID MANAGEMENT

### STEPS TO BUILD YOUR PULSE PRO SYSTEM:

**A** Hub with Software

**1 REQUIRED**

**B** Add Meters

**MINIMUM 1 REQUIRED**

#### ADD ACCESSORIES

**C** Tank Level Monitor (TLM)

Tank Level Monitor can be used as a standalone product.

**OPTIONAL**

**D** Pump Air Controller (PAC)

**OPTIONAL**

**E** Pulse Extender and Pulse Remote Extender

**OPTIONAL**

**F** Roll Around Package

**OPTIONAL**

**G** Oil Bar Dispenser

**OPTIONAL**

**H** Pulse Universal Controller

**OPTIONAL**

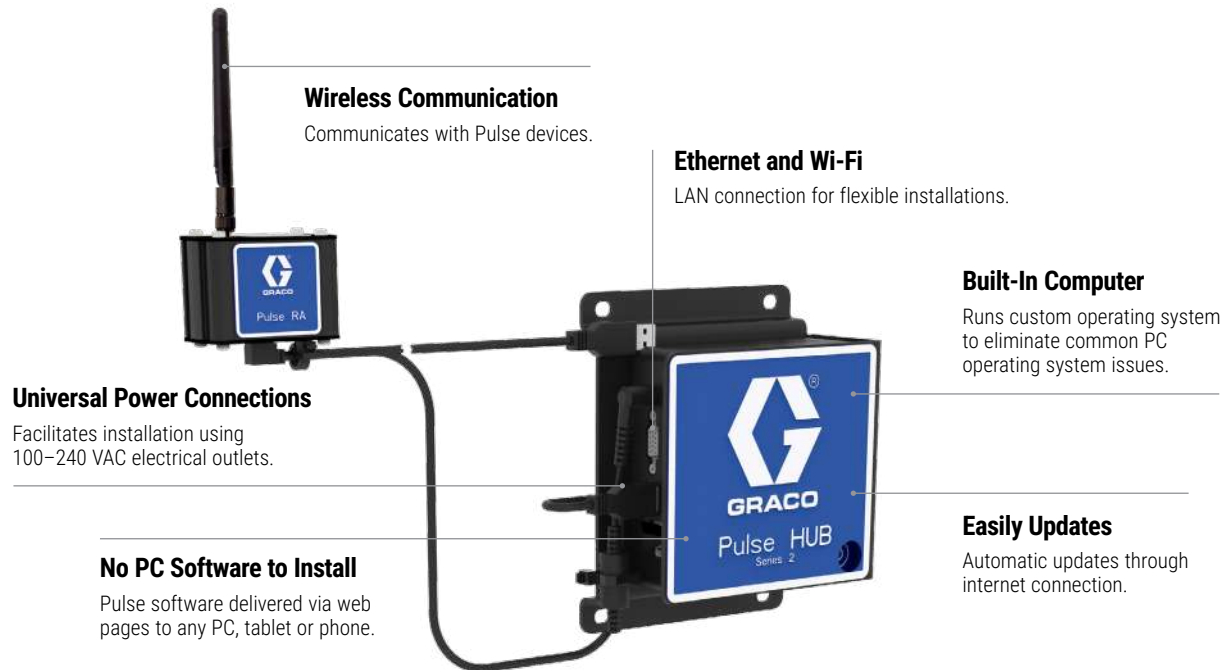
# PULSE® PRO FLUID MANAGEMENT

## A PULSE HUB

Simply connect the Pulse Hub to a power source and access your local network to get started. The self-contained device includes everything necessary for users to access monitoring and reporting tools instantly from any network-connected PC, tablet or smartphone.

## PULSE SOFTWARE

Pulse Pro Fluid Management software is pre-installed on the Pulse HUB and focused on simple intuitive design with powerful information at your fingertips. Get a quick consolidated view of all dispenses for the entire shop via specifically designed web page and easy-to-use software. Track tank levels at a glance. Generate customizable reports and automated e-mail alerts to share critical information with other key decision-makers. For further efficiency and automation, Pulse software can be integrated with your DMS through Pulse standard integrations or our generic third-party interface.



**Wireless Communication**  
Communicates with Pulse devices.

**Ethernet and Wi-Fi**  
LAN connection for flexible installations.

**Built-In Computer**  
Runs custom operating system to eliminate common PC operating system issues.

**Universal Power Connections**  
Facilitates installation using 100–240 VAC electrical outlets.

**No PC Software to Install**  
Pulse software delivered via web pages to any PC, tablet or phone.

**Easily Updates**  
Automatic updates through internet connection.

### Features and Benefits

- No PC software to install – Pulse Hub generates a local web page
- Responsive web design – Use any-size screen, from a PC to a phone
- Consolidated dispense queue – Find everything you need in one convenient table
- Advanced reporting – Create and schedule automated reports to track history and fluid usage
- Informative and preventive alerts – The software offers over two dozen alert activities
- Automatic software updates – Software notifies you when updates are ready to install

### TECHNICAL SPECIFICATIONS

|              |                                   |
|--------------|-----------------------------------|
| Weight       | 1.45 lb (660 gm)                  |
| Power Supply |                                   |
| Input Power  | 100–240 VAC line voltage (0.05 A) |
| To Hub       | 5 VDC (0.5 amps)                  |
| Warranty     | Two years electronics             |

## A ORDERING OPTIONS



| Part Number | Description                                           |
|-------------|-------------------------------------------------------|
| 25U972      | Hub for non-CE installation with global power adapter |



# DMS INTEGRATION OPTIONS FOR PULSE PRO

An integration, put simply, is the communication between two separate business systems. Pulse uses integrations to provide enhanced control and monitoring for fluid dispenses.

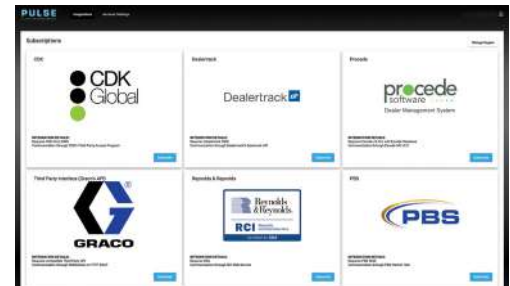
## OPTION 1 – PARTNER INTEGRATIONS

- 
  - Requires FleetFocus: FA or M5 with FluidFocus Module
  - Communication through Enterprise Asset Management System
  
- 
  - Requires CDK Drive DMS
  - Communication through CDK's Third-Party Access Program
  
- 
  - Requires Dealertrack DMS
  - Communication through Dealertrack's Opentrack API
  
- 
  - Requires Excede v9.22+ with Excede Database
  - Communication through Excede API v2.0
  
- 
  - Requires PBS DMS
  - Communication through PBS Partner Hub
  
- 
  - Requires ERA
  - Communication through RCI Web Service

## OPTION 2 – COMMUNICATION THROUGH GRACO THIRD PARTY INTERFACE

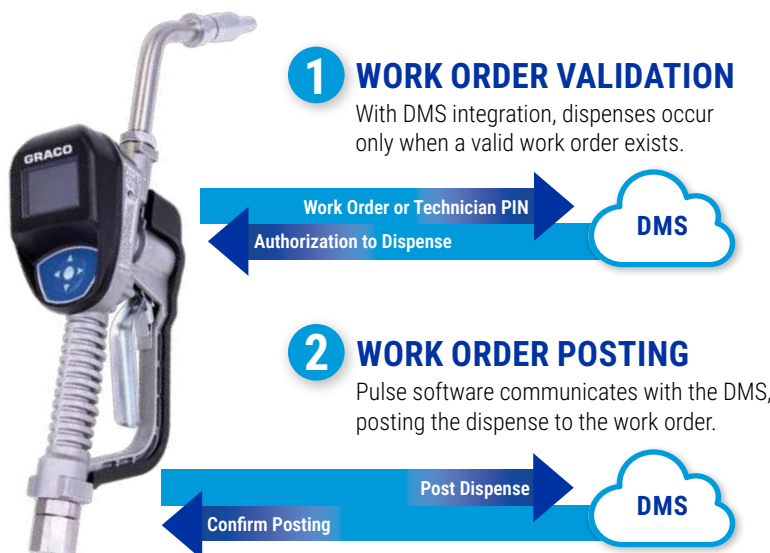


- Requires End-user developed integration for non-supported DMS



## HOW IT WORKS

The interface to business systems or DMS provides two important basic functions:



## ORDERING OPTIONS

### INTERFACE ACTIVATION CODES

| Part Number | Description                                     |
|-------------|-------------------------------------------------|
| 25R975      | Pulse software with CDK Global Drive            |
| 25R976      | Pulse software with Dealertrack                 |
| 25R977      | Pulse software with AssetWORKS                  |
| 25R978      | Pulse software with Reynolds & Reynolds         |
| 25R979      | Pulse software with Procede Software – 2nd site |
| 25R980      | Pulse software with Procede Software            |
| 25R981      | Pulse software with PBS                         |

# PULSE® PRO FLUID MANAGEMENT

## B PULSE DISPENSE METER

The dispense meter is durable and easy to use, giving technicians everything they need at their fingertips. PINs and other data can be entered in moments via a larger, more intuitive display. NFC tags can be used for immediate PIN entry and faster access to work orders.

### Large, Intuitive Display

High-contrast display for low- and bright-light conditions.

### Long Battery Life

Uses four off-the-shelf AA batteries – easy to replace.

### Fluid Extension Kits

Choose from rigid, flexible or gear lube extensions with automatic flush-mount nozzle design.

### Faster PIN Entry

Built-in NFC reader and simple, efficient controls.

### Wireless Communication

Communicates dispense information with Hub.

### Ergonomic Design

Lower button placement.

### Long-Life Valve Design

Cartridge design for long life and easier repair.

### Protective Trigger Guard

Prevents accidental dispenses.



## TECHNICAL SPECIFICATIONS

|                                            |                                                                                                      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------|
| Flow Range*                                | 0.25 to 18 gpm (0.9 to 68 lpm)                                                                       |
| Maximum Working Pressure                   | 1,500 psi (103.4 bar)                                                                                |
| Units of Measure (factory set to quarts)   | Pints, quarts, gallons, liters                                                                       |
| Weight                                     | 5.3 lbs (2.4 kg)                                                                                     |
| Inlet                                      | 1/2 in NPT or 3/4 in NPT                                                                             |
| Outlet                                     | 3/4 in straight thread O-ring boss                                                                   |
| Dimensions (without extension) – L x W x H | 13 in x 3.75 in x 5.75 in (33 cm x 9.5 cm x 14.6 cm)                                                 |
| Maximum Recorded Dispense                  | 999.99 units                                                                                         |
| Operating Temperature Range                | 4°F to 158°F (-16°C to 70°C)                                                                         |
| Storage Temperature Range                  | -40°F to 158°F (-40°C to 70°C)                                                                       |
| Battery**                                  | 4 AA alkaline or lithium batteries                                                                   |
| RF Frequency Band                          | 2,400 to 2,483.5 MHz                                                                                 |
| Maximum RF Transmit Power                  | 8 dBm                                                                                                |
| Wetted Parts                               | Aluminum, stainless steel, PBT, nitrile rubber, zinc-plated carbon steel, nickel-plated carbon steel |
| Fluid Compatibility                        | Antifreeze, gear oil, crankcase oil, ATF, windshield wash (up to 50% alcohol-based solutions)        |
| Meter Accuracy†                            | +/- 0.5 percent                                                                                      |
| Warranty                                   | Five year structural, 3 years electronics, 1 year wear components                                    |

\*Tested in 10W motor oil. Flow rates vary with fluid pressure, temperature and viscosity.

\*\*Battery required to meet life expectancy: Energizer® Alkaline E91.

†At 2.5 gpm (9.5 lpm), at 70°F (21°C), with 10W oil and 1 gallon dispensed. May require calibration; out-of-box accuracy is +/- 1.25 percent.



## B ORDERING OPTIONS

### 8 GPM (30 LPM) METERS








| Fluid           | Extension  | Nozzle                | Size (in) | Part Number |
|-----------------|------------|-----------------------|-----------|-------------|
| Oil             | Flexible   | Automatic Quick-Close | 1/2       | 25M319      |
|                 | Rigid      |                       |           | 25M317      |
|                 | Semi-Rigid |                       |           | 2009326     |
| Antifreeze      | Flexible   | Manual Antifreeze     |           | 25M320      |
|                 | Rigid      |                       |           | 25M318      |
| Gear Lube       | Gear Lube  | Manual                |           | 25M326      |
| Windshield Wash | Rigid      | None                  |           | 25M328      |

### 18 GPM (68 LPM) METERS


| Fluid            | Extension | Nozzle           | Size (in) | Part Number |
|------------------|-----------|------------------|-----------|-------------|
| Oil / Antifreeze | Flexible  | Manual High-Flow | 1/2       | 25M324      |
|                  | Rigid     |                  |           | 25M323      |
|                  | Flexible  | Manual High-Flow | 3/4       | 25M330      |
|                  | Rigid     |                  |           | 25M329      |

## ACCESSORIES

### NOZZLE AND EXTENSION KITS

|                                                                                     | Extension   | Fluid           | Nozzle Description               | Part Number | Compatible Meters |
|-------------------------------------------------------------------------------------|-------------|-----------------|----------------------------------|-------------|-------------------|
|   | Rigid       | Oil             | Automatic, non-drip, quick-close | 255852      | Pulse 8 gpm       |
|                                                                                     |             | Antifreeze      | Non-drip, quick-close            | 26C267      | Pulse 8 gpm       |
|                                                                                     |             | Oil/Antifreeze  | High-flow, non-drip, quick-close | 255857      | Pulse 18 gpm      |
| Image to come                                                                       | Semi-Rigid  | Oil             | Automatic, non-drip, quick-close | 2004991     | Pulse 8 gpm       |
|  | Rigid       | Gear lube       | Non-drip, quick-close            | 255854      | Pulse 8 gpm       |
|  | Flexible    | Oil             | Automatic, non-drip, quick-close | 255853      | Pulse 8 gpm       |
|                                                                                     |             | Antifreeze      | Non-drip, quick-close            | 26C268      | Pulse 8 gpm       |
|                                                                                     |             | Oil/Antifreeze  | High-flow, non-drip, quick-close | 255858      | Pulse 18 gpm      |
|  | Nozzle Only | Oil             | Automatic, non-drip, quick-close | 17R220      | Pulse 8 gpm       |
|                                                                                     |             | Antifreeze      | Non-drip, quick-close            | 17T207      | Pulse 8 gpm       |
|                                                                                     |             | Oil/Antifreeze  | High-flow, non-drip, quick-close | 255461      | Pulse 18 gpm      |
|  | Nozzle Only | Gear lube       | Non-drip, quick-close            | 255470      | Pulse 8 gpm       |
|  | Flexible    | Oil/Antifreeze  | Extension only, 2 ft length      | 131733      | Pulse 8 gpm       |
|  | Rigid       | Windshield wash | Extension, nozzle                | 273079      | Pulse 8 gpm       |







### NFC TAGS

|                                                                                     | Part Number | Description                                                 |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------|
|  | 131462      | NFC tags for user identification with meter. 25-pack, blue. |

### PULSE METER FILTER KITS

| Part Number | Description                                                         |
|-------------|---------------------------------------------------------------------|
| 25D906      | Filter kit includes filters/strainers (15M308) and O-rings (155332) |

### SWIVEL COVERS / IMPACT PROTECTION

|                                                                                      | Part Number | Description                                    |
|--------------------------------------------------------------------------------------|-------------|------------------------------------------------|
|  | 15T366      | Black swivel cover (standard color with meter) |
|  | 15T367      | Red swivel cover                               |
|  | 15T368      | Blue swivel cover                              |
|  | 15T369      | Green swivel cover                             |
|  | 15T370      | Yellow swivel cover                            |
|  | 131226      | Pulse / SD meter boot                          |

# PULSE® PRO FLUID MANAGEMENT

## C PULSE TANK LEVEL MONITOR (TLM)

Measure your largest tanks accurately with minimal effort. The monitor's ultrasonic sensor records the tank level and can be configured to e-mail a daily report to key stakeholders detailing tank volumes, low- or high-level warnings and more.

### Simple Wireless Setup

Automatic network identification.

### Built-In Display

Real-time level visible from built-in display.

### Long Battery Life

Allows for remote installations. Uses four off-the-shelf AA batteries – easy to replace.

### Supports Multiple Tank Shapes

Ability to input strapping table for any tank shape.



### Tough Exterior

Sealed enclosure to accommodate outdoor usage.

### On-Demand Readings

Ability to take reading at any time.

### Compact Design

Easily fits into more spaces.

## C ORDERING OPTIONS

| Part Number | Description              |
|-------------|--------------------------|
| 2007428     | Tank Level Monitor (TLM) |

## TECHNICAL SPECIFICATIONS

|                                                                            |                                                                                                |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Ultrasonic Tank Depth Measurement range (Not for use in pressurized tanks) | 5 in to 13 ft (12.7 cm to 3.96 m)                                                              |
| Fluid Level Measurement Accuracy                                           | +/- 1.8 in (4.57 cm)                                                                           |
| Mounting                                                                   | 1.5 in and 2 in threaded NPT connector<br>(Adapter for BSPP and BSPT thread options available) |
| Weight (with batteries installed)                                          | 1.25 lb (567 g)                                                                                |
| RF Frequency Band                                                          | 2,400 to 2,483.5 MHz                                                                           |
| Operating Temperature Range (Display will not function below 32°F [0°C])   | -4°F to 140°F (-20°C to 60°C)                                                                  |
| Storage Temperature Range                                                  | -40°F to 185°F (-40°C to 85°C)                                                                 |
| Batteries                                                                  | Four AA alkaline                                                                               |
| Enclosure                                                                  | IP65                                                                                           |
| RF Communication                                                           | 2,400 to 2,483.5 MHz                                                                           |
| Vertical Tanks                                                             |                                                                                                |
| Maximum Volume                                                             | 999,999 gal (999,999 l)                                                                        |
| Maximum Height                                                             | 13 ft (3.96 m)                                                                                 |
| Cylindrical Tanks                                                          |                                                                                                |
| Maximum Volume                                                             | 999,999 gal (999,999 l)                                                                        |
| Maximum Height                                                             | 13 ft (3.96 m)                                                                                 |
| Maximum Length                                                             | 13 ft (3.96 m)                                                                                 |
| Maximum Width                                                              | 13 ft (3.96 m)                                                                                 |
| Fluid Compatibility                                                        | Automatic transmission fluid, antifreeze, window wash, coolant, waste water                    |
| Warranty                                                                   | Two years electronics                                                                          |



## D PULSE PUMP AIR CONTROL (PAC)

Prevent unauthorized access to fluid inventory. Pump air supply is shut off automatically after the dispense, preventing spills and expensive cleanup if a broken line occurs. Pump operation is enabled only when a dispense has been activated from the meter.



### Easy Installation

Built-in mounting bracket.

### Simple Wireless Setup

Automatic network identification.

### High-Volume Air Valve

Supports a variety of pumps.

### Multiple Thread Options

NPT and BSPP air valve options.

### Compact Design

Allows for mounting directly on pump or in tight spaces.

### Rugged Exterior

Sealed enclosure to protect internal components.

### Multiple Wiring Options

NEMA 5-15 plug or flying leads.

## D ORDERING OPTIONS

| Part Number | Description             |
|-------------|-------------------------|
| 24Z728      | NPT with NEMA 5-15 plug |

## TECHNICAL SPECIFICATIONS

|                                                |                                                        |
|------------------------------------------------|--------------------------------------------------------|
| Minimum Operating Pressure                     | 36 psi (0.25 MPa, 2.5 bar)                             |
| Maximum Operating Pressure                     | 145 psi (1.0 MPa, 10 bar)                              |
| Maximum Air Flow                               | 93 SCFM (2.6 m <sup>3</sup> /min)                      |
| Power Supply                                   | 100–240 VAC line voltage, 24 VDC solenoid              |
| Power Cord                                     |                                                        |
| Model 24Z676, 24Z677                           | 6 ft SJOOW, 3-wire, 18-gauge cable with flying leads   |
| Model 24Z728                                   | Power cord with integrated NEMA 5-15 plug              |
| Current                                        | 25 to 60 mA                                            |
| RF Frequency Band                              | 2,400–2,483.5 MHz                                      |
| Connection Ports Size (inlet, outlet, exhaust) |                                                        |
| Model 24Z676, 24Z728                           | 3/8 in NPT                                             |
| Model 24Z677                                   | 3/8 BSPP                                               |
| Operating Temperature Range                    | 14°F to 122°F (-10°C to 50°C)                          |
| Storage Temperature Range                      | -40°F to 185°F (-40°C to 85°C)                         |
| Weight                                         | 2.44 lbs (1.11 kg)                                     |
| Dimensions – L x W x H                         | 9.5 in x 2.25 x 3.75 in (241.3 mm x 57.2 mm x 95.3 mm) |
| Warranty                                       | Two years electronics                                  |

# PULSE® PRO FLUID MANAGEMENT

## E PULSE EXTENDER

The Pulse wireless network can easily be expanded to accommodate large shops or a large number of devices. Simply plug the Extender into wall power to extend the network.

### Expands Pulse Network

Supports 20 devices and extends the network range.

### Simple Wireless Setup

Automatic network identification.

### Integrated Electrical Plug

Simply plugs into wall.

### Compact Design

Place conveniently in standard electrical outlet locations.



### TECHNICAL SPECIFICATIONS

|                       |                                    |
|-----------------------|------------------------------------|
| Operating Temperature | 32°F to 140°F (0°C to 60°C)        |
| Power Input           | Universal AC input (100 - 240 VAC) |
| Length                | 2.31 in (5.87 cm)                  |
| Width                 | 1.27 in (3.23 cm)                  |
| Height                | 3.28 in (8.33 cm)                  |
| Weight                | 0.5 lb (0.25 kg)                   |
| Warranty              | Two years electronics              |

## E ORDERING OPTIONS

| Part Number | Description        |
|-------------|--------------------|
| 20A058      | Pulse Pro Extender |

## E PULSE REMOTE EXTENDER

The Pulse wireless network can easily be expanded to accommodate devices in secondary on-site buildings. Connect the Remote Extender to wall power and local network via Ethernet or Wi-Fi to extend the network.

### Expands Pulse Network

Supports 20 devices and extends the network range.

### Simple Wireless Setup

Automatic network identification.

### Multiple Network Connection Options

Utilizes local network Ethernet or Wi-Fi to communicate back to Hub.

### Compact Design

Easy to place even in tight spaces.



### Electrical Power

Includes plug-in power adapter.

### TECHNICAL SPECIFICATIONS

|                       |                             |
|-----------------------|-----------------------------|
| Connections           | Ethernet or Wi-Fi           |
| Ethernet              | 10/100Base-T                |
| Wi-Fi                 | 802.11 b/g/n                |
| Operating Temperature | 32°F to 104°F (0°C to 40°C) |
| Length                | 3 in (7.62 cm)              |
| Width                 | 3 in (7.62 cm)              |
| Height                | 1 in (2.54 cm)              |
| Warranty              | Two years electronics       |

## E ORDERING OPTIONS

| Part Number | Description                               |
|-------------|-------------------------------------------|
| 17F878      | Remote Extender with global power adapter |



## F ROLL AROUND PACKAGE

Pulse Pro Fluid Management wireless technology allows you to control your mobile drums and dispenses by providing security for expensive drums of synthetic and semi-synthetic fluids. Each package contains everything you need to manage your drums in existing Pulse installations. Drum not included.



### ORDERING OPTIONS

| Package Number | Extensions       | Package Includes |        |          |           |               |        |
|----------------|------------------|------------------|--------|----------|-----------|---------------|--------|
|                |                  | Meter            | Pump   | Downtube | Drum Cart | Air Regulator | Hose   |
| 25D948         | 8 GPM, Rigid     | 25M317           | 24G576 | 16F878   | 24F915    | 24H420        | 24H865 |
| 25D952         | 8 GPM, Flexible  | 25M319           |        |          |           |               |        |
| 25D953         | 8 GPM, Gear Lube | 25M326           |        |          |           |               |        |

## G OIL BAR

Components ordered separately. For complete unit, order console (25D121), dispense kit (25D130) (one per meter) and Pulse meters (25N415) as needed.



### ORDERING OPTIONS

#### OIL BAR

| Part Number | Description                  |
|-------------|------------------------------|
| 25D121      | Oil Bar Console              |
| 25D130      | Oil Bar Dispense Kit         |
| 25N415      | Oil Bar Pulse Dispense Meter |

## H PULSE UNIVERSAL CONTROLLER

Manage any fluid dispense with Pulse Fluid Management – including diesel and DEF.




### ORDERING OPTIONS

#### PULSE UNIVERSAL CONTROLLER


| Part Number | Description                    |
|-------------|--------------------------------|
| 25V710      | Pulse Pro Universal Controller |

### ACCESSORIES

|                                                                                     | Part Number | Description     |
|-------------------------------------------------------------------------------------|-------------|-----------------|
|  | 249440      | Console bracket |

### PULSE PRO DEMO KIT

Pulse Pro demo case with everything needed to show customers how Pulse Pro will save them time, gain them more billable hours and maximize profitability.

|                                                                                     | Part Number | Description                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 25D625      | Includes Pulse Hub (24Z978), Pulse Dispense Meter, Pulse TLM (25M449), Pulse PAC (24Z728), Pulse Extender (20A058), Pulse Remote Extender (17F878), Pulse NFC Tag, case and protective foam |

# PULSE® ASSET FLUID MANAGEMENT

Pulse Asset Fluid Management is designed for applications where wireless signal may not always be available, Pulse Asset is a platform-based system that wirelessly tracks what machines are getting filled, how much fluid is used, who did the dispense and when the dispense occurred.



FLUID MANAGEMENT

## WHY PULSE ASSET FLUID MANAGEMENT?

### ROI

Pulse Asset allows recording of every drop of fluid dispensed on the factory floor – reducing fluid usage and keeping expenses down. With Pulse Asset, you'll optimize equipment uptime and stay ahead of the competition.

### EFFICIENCY AND SAFETY

Make reactive maintenance a thing of the past. Automated recording of dispenses reduces the chance of errors and optimizes fluid delivery practices. Identify leaking assets and reduce the risk of fluid spills before they happen.

### SIMPLICITY AND RELIABILITY

This simple system allows anybody to be trained to use – from the factory floor to the manufacturing line. The robust testing done ensures Pulse Asset exceeds quality standards, to provide many years of reliable service.

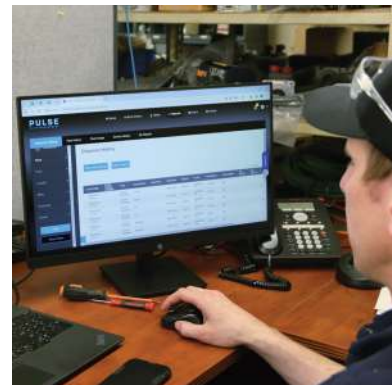
## EASE OF OPERATION\*



**1** Fill assets utilizing meter that records up to 40 dispenses.



**2** Sync the meter to the HUB once dispenses are complete.



**3** Analyze dispense history on any PC, phone or tablet connected to LAN.

\*Please refer to the owners manual for more information.



### Local Area Network (LAN) Connection

Data is accessible through flexible and private log-in software on any PC, tablet or phone connected to the local area network.



### Built-In Computer

Runs custom operating system.

### Asset Tags

Installed at each machine prevent filling with incorrect fluids.



### User Tags

Provide accountability and reduce human error.

### Dispense Accountability

NFC tags control dispense activation.

### Wireless Connection

Sync to HUB when wireless connection is available to access dispense records.

### Bypass Manual Records

Meters record up to 40 dispenses offline.



## ORDERING OPTIONS

### PULSE ASSET STARTER KIT

| Part Number | Description                                                             |
|-------------|-------------------------------------------------------------------------|
| 2006744     | Includes one HUB, one NFC reader-writer and one 25 pack of NFC pendants |

### COMPONENTS

| Part Number | Description                                                                                    |
|-------------|------------------------------------------------------------------------------------------------|
| 26D776      | 8 gpm Dispense Meter with 1/2 in NPT inlet – rigid extension, oil nozzle                       |
| 26D777      | 8 gpm Dispense Meter with 1/2 in NPT inlet – rigid extension, coolant nozzle                   |
| 26D784      | 18 gpm Dispense Meter with 3/4 in NPT inlet – rigid extension, high flow oil-coolant nozzle    |
| 131462      | NFC pendants, blue with Graco logo – 25 pack                                                   |
| 2006845     | Adhesive NFC tags – 25 pack                                                                    |
| 18G102      | Replacement NFC reader-writer – note that one is already included with Pulse Asset Starter Kit |

### PULSE ASSET UNIVERSAL CONTROLLER

| Part Number | Description                      |
|-------------|----------------------------------|
| 25V711      | Pulse Asset Universal Controller |

### OIL PUMP AND METER PACKAGES

| Part Number | Description                               |
|-------------|-------------------------------------------|
| 2006857     | 16 gallon kit with 1:1 Fast-Ball 100 pump |
| 2006858     | 55 gallon with 1:1 Fast-Ball 100 pump     |
| 2006859     | Universal with 1:1 Fast-Ball 100 pump     |
| 2006860     | 16 gallon with 5:1 Fire-Ball 300 pump     |
| 2006861     | 55 gallon with 5:1 Fire-Ball 300 pump     |
| 2006862     | Universal with 5:1 Fire-Ball 300 pump     |

Each kit includes a pump with bung adapter, an Asset meter with rigid extension, and a hose kit with 6 ft air hose and 6 ft oil hose. 16 and 55 gallon kits also include hand truck for oil barrel (barrel not included).

### DEMO KITS

| Part Number | Description                                                                                                                                                                                    |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2006727     | Pulse Asset Full Demo Kit. Includes Pulse HUB, demo meter with cutaway gear chamber, NFC reader-writer, 25-pack of NFC pendants and a Pulse Extender in a wheeled hard case with foam inserts. |
| 2006728     | Pulse Asset Demo Meter Kit. Includes demo meter with cutaway gear chamber, NFC reader-writer and a 25-pack of NFC pendants in a hard case with foam inserts.                                   |

# PULSE® FC FLUID CONTROL

Pulse FC is wire-free, so installation and configurations are easier and cheaper. We've replaced the big box console with fast, reliable and convenient fluid cards scanned at easy-to-handle meters, so users can employ the same type of familiar technologies they use elsewhere.



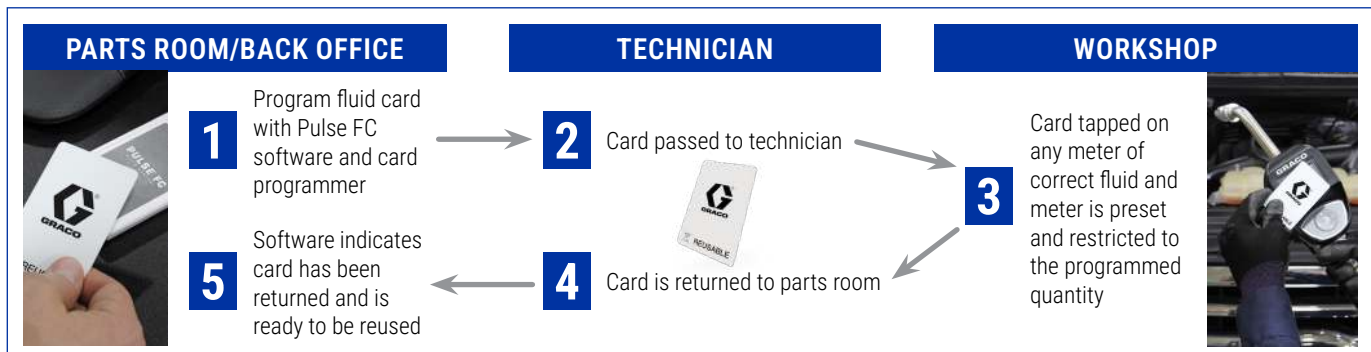
FLUID MANAGEMENT

## STEPS TO BUILD YOUR PULSE FC SYSTEM:



## HOW IT WORKS

Pulse FC is a fluid control system that utilizes SD Preset meters. When put into Pulse FC mode, SD Preset meters will only dispense fluid when authorized with Fluid Cards. These included cards are programmed using the Pulse FC Software and Card Programmer. Once programmed, the cards are simply tapped to the meter which will be preset for the authorized amount of fluid and will not dispense any more than authorized.





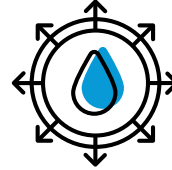
## GAIN INSIGHT INTO AND CONTROL OF YOUR BULK FLUIDS



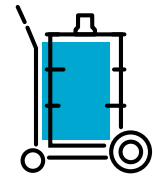
**Simplicity.** Avoid surprises, interruptions and delays. Fluids are easily controlled so technicians can spend more time serving more customers.



**Accountability.** Be assured every vehicle or machine receives the appropriate amount of fluid for more accurate billing.



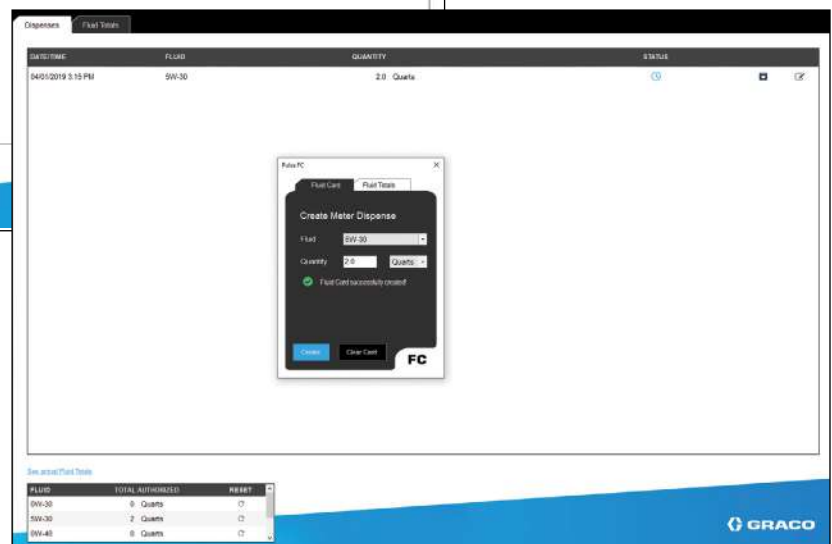
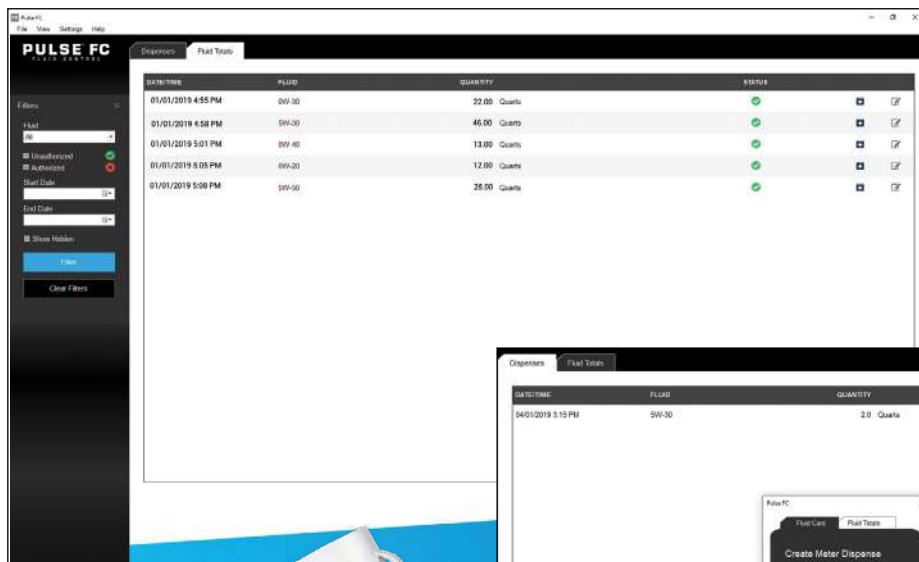
**Scalability.** Add Pulse FC into almost any environment quickly, even retrofit applications and avoid excessive installation costs and delays. You can also easily upgrade to Graco's Pulse Pro.



**Mobility.** Pair with mobile dispense units and drums quickly so your team can conveniently dispense without delays, hassles or extra steps.

## PULSE FC SOFTWARE

Pulse FC is a Windows PC-based software. Paired with the card programmer it allows setup and operation of the system. Cards can be utilized to authorize dispenses, totalize all fluids dispensed, as well as setup and calibrate SD™ Preset meters.



# PULSE® FC FLUID CONTROL

## A PULSE FC STARTER KIT

Enjoy an easy-to-use, easy-to-install, out-of-the-box fluid control system designed for fast wire-free setup and configuration. Pulse FC integrates into existing or new environments quickly and cost-effectively without interrupting daily operations.



### Pulse FC Programmer

Easily program cards for dispense or fluid totals.

### Pulse FC Fluid Cards

Reusable fluid cards can be scanned directly on the SD preset meter's built-in NFC reader.

### Pulse FC Software Quick Start

Easy-to-follow instructions for quick system setup.

### Pulse FC Software

Simple PC-based software is used in conjunction with Pulse FC Programmer.

## A ORDERING OPTIONS

| Part Number | Description                                                                                                |
|-------------|------------------------------------------------------------------------------------------------------------|
| 26C401      | Pulse FC Starter Kit – Includes Software, Card Programmer, Software Quick Start and 50-Pack of Fluid Cards |



## B SD™ PRESET DISPENSE METERS

With Pulse FC, dispense only precise volumes to create efficiencies for your entire shop operation. Monitor how much fluid you're using. Choose the amount of fluid each technician can dispense in order to maintain accurate inventory.

### Large LCD High-Contrast Display

High-contrast screen for reading in all lighting conditions with easy setup and navigation. See what fluid the meter is setup for and exactly how much you are dispensing.

### Upgrade Option

Compatible with Pulse™ FC and upgradeable to Pulse™ Pro.

### High Flow

Available in two models – 8 gpm (30 lpm) or 18 gpm (68 lpm).

### Durable Cast Body

Designed for heavy duty and harsh applications.



### Automatic Quick-Close Nozzle

Choose from rigid or flexible extensions with non-drip performance.

### Long-Life Valve Design

Cartridge design for fewer and easier repairs.

### Ergonomic Handle Design

Four-finger trigger and easy-to-use button pad reduce worker fatigue.

## TYPICAL APPLICATIONS

- Automotive dealerships
- Heavy-duty dealerships
- Fast lube centers
- Fleet service facilities
- Service shops
- In-plant
- Mining

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor gear, and ATF)
- Antifreeze

## TECHNICAL SPECIFICATIONS

|                                   |                                                                                                      |
|-----------------------------------|------------------------------------------------------------------------------------------------------|
| Flow Range*                       | 0.25 gpm to 18 gpm (0.9 lpm to 68 lpm)                                                               |
| Maximum Working Pressure          | 1,500 psi (103.4 bar)                                                                                |
| Units of Measure                  | Pints, quarts, gallons, liters (factory set to quarts)                                               |
| Metered Dispense Valve Accuracy** | +/- 0.5%                                                                                             |
| Inlet                             | 1/2 in-14 NPT or 3/4 in-14 NPT                                                                       |
| Outlet                            | 3/4 in-16 straight thread O-ring Boss                                                                |
| Maximum Recorded Dispense         | 9999 units (factory set in quarts)                                                                   |
| Operating Temperature Range       | 4°F to 158°F (-20°C to 70°C)                                                                         |
| Storage Temperature Range         | -40°F to 158°F (-40°C to 70°C)                                                                       |
| Wetted Parts                      | Aluminum, stainless steel, PBT, nitrile rubber, zinc plated carbon steel, nickel plated carbon steel |
| Dimensions (without extension)    | 13 in L x 3.75 in W x 5.75 in H (33 cm x 9.5 cm x 14.6 cm)                                           |
| Weight                            | 5.3 lb (2.4 kg)                                                                                      |
| Warranty                          | Five years overall, three years electronics                                                          |
| Instruction Manual                | 3A6711 and 3A6673                                                                                    |

\*Tested in 10W motor oil. Flow rates vary with fluid pressure, temperature and viscosity.

\*\*At 2.5 gpm (9.5 lpm), at 70°F (21°C), with 10-weight oil and 1 gallon dispensed. May require calibration.

# PULSE® FC FLUID CONTROL

## B ORDERING OPTIONS

### SD™ PRESET ELECTRONIC METERS



26C384

|       | Dispense Type             | Flow Range gpm (lpm) | Fluid      | Extension | Inlet in (NPT) | Part Number |
|-------|---------------------------|----------------------|------------|-----------|----------------|-------------|
| SDP8  | Preset (Pulse FC enabled) | 0.25–8 (1–30)        | Oil        | Rigid     | 1/2            | 26C384      |
|       |                           |                      |            | Flexible  | 1/2            | 26C354      |
|       |                           |                      | Antifreeze | Rigid     | 1/2            | 26C385      |
|       |                           |                      |            | Flexible  | 1/2            | 26C355      |
|       |                           |                      | Gear lube  | Rigid     | 1/2            | 26C358      |
| SDP18 | Preset (Pulse FC enabled) | 0.25–18 (1–68)       | Oil        | Rigid     | 1/2            | 26C356      |
|       |                           |                      |            | Flexible  | 1/2            | 26C357      |
|       |                           |                      |            | Rigid     | 3/4            | 26C360      |
|       |                           |                      |            | Flexible  | 3/4            | 26C361      |

### NOZZLE AND EXTENSION KITS


|  | Extension   | Fluid          | Nozzle Description               | Part Number | Compatible Meters |
|--|-------------|----------------|----------------------------------|-------------|-------------------|
|  | Rigid       | Oil            | Automatic, non-drip, quick-close | 255852      | SDP8              |
|  |             | Antifreeze     | Non-drip, manual open/close      | 26C267      | SDP8              |
|  |             | Oil/Antifreeze | High-flow, non-drip, quick-close | 255857      | SDP18             |
|  | Rigid       | Gear lube      | Non-drip, quick-close            | 255854      | SDP8              |
|  | Flexible    | Oil            | Automatic, non-drip, quick-close | 255853      | SDP8              |
|  |             | Antifreeze     | Non-drip, manual open/close      | 26C268      | SDP8              |
|  |             | Oil/Antifreeze | High-flow, non-drip, quick-close | 255858      | SDP18             |
|  | Nozzle Only | Oil            | Automatic, non-drip, quick-close | 17R220      | SDP8              |
|  | Nozzle Only | Gear lube      | Non-drip, quick-close            | 255470      | SDP8              |
|  | Nozzle Only | Oil/Antifreeze | Non-drip, manual open/close      | 17T207      | SDP8              |
|  | Flexible    | Oil/Antifreeze | Extension only, 2 ft length      | 131733      | SDP8              |



## C ORDERING OPTIONS

### ROLL AROUND PACKAGE

Pulse FC wire-free technology allows you to control your mobile drums and dispenses by providing security for expensive drums of synthetic and semi-synthetic fluids. Each package contains everything you need to manage your drums in existing installations. Drum not included.

|  | Package Number | Extensions       | Package Includes |        |          |           |               |        |
|-----------------------------------------------------------------------------------|----------------|------------------|------------------|--------|----------|-----------|---------------|--------|
|                                                                                   |                |                  | Meter            | Pump   | Downtube | Drum Cart | Air Regulator | Hose   |
|                                                                                   | 26C366         | 8 GPM, Gear Lube | 26C358           | 24G576 | 16F878   | 24F915    | 24H420        | 24H865 |
|                                                                                   | 26C367         | 8 GPM, Flexible  | 26C354           |        |          |           |               |        |
|                                                                                   | 26C409         | 8 GPM, Rigid     | 26C384           |        |          |           |               |        |

### OIL BAR

| Part Number | Description                      |
|-------------|----------------------------------|
| 25D121      | Oil Bar Console                  |
| 25D130      | Oil Bar Dispense Kit             |
| 25N771      | Oil Bar SD Preset Dispense Meter |




#### OIL BAR


Components ordered separately. For complete unit, order console (25D121), dispense kit (25D130) (one per meter) and Pulse FC meters (25N771) as needed.

### ACCESSORIES

#### PULSE FC FLUID CARDS

|  | Part Number | Description                           |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------|
|                                                                                     | 130783      | Pulse FC Fluid Cards – 50-Pack, White |


#### PULSE FC DEMO KIT

|  | Part Number | Description                                                                           |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|
|                                                                                     | 26C399      | Includes Pulse FC Dispense Meter, Software, Card Programmer and 5-Pack of Fluid Cards |

#### SD METER FILTER KITS

| Part Number | Description                                                         |
|-------------|---------------------------------------------------------------------|
| 25D906      | Filter kit includes filters/strainers (15M308) and O-rings (155332) |

#### SWIVEL COVERS / IMPACT PROTECTION

|  | Part Number           | Description                                    |
|--------------------------------------------------------------------------------------|-----------------------|------------------------------------------------|
|                                                                                      | 15T366                | Black swivel cover (standard color with meter) |
| 15T367                                                                               | Red swivel cover      |                                                |
| 15T368                                                                               | Blue swivel cover     |                                                |
| 15T369                                                                               | Green swivel cover    |                                                |
| 15T370                                                                               | Yellow swivel cover   |                                                |
| 131226                                                                               | Pulse / SD meter boot |                                                |

# PULSE® LEVEL FLUID MANAGEMENT

Graco Pulse Level offers highly intuitive tank-level-visibility options to help you optimize deliveries, margins and customer service. Choose from multiple tank-level-monitoring technologies, including a system that can run entirely on Wi-Fi. Track tank levels, capture and apply data, and assign distribution routes quickly, accurately and confidently from the industry's leading fluid management expert.



## CHOOSE YOUR PULSE LEVEL SYSTEM:



25T460

### ULTRASONIC WI-FI

There are other TLM solutions on the market – but none of them are designed for Wi-Fi configuration. When connected to a reliable network, marketers and their customers can avoid service fees or contracts entirely.



25T461

### ULTRASONIC CELLULAR

No need to worry about obsolete cellular network, we use a long term data solution. Versatile multi-thread adapter allows for installation on all different tank types.



25T462

### PRESSURE CELLULAR

No need to worry about obsolete cellular network, we use a long term data solution. Our pressure unit is approved for hazardous locations and measures tanks up to 30 feet tall.

### TYPICAL APPLICATIONS

- Heavy-duty truck dealers
- Fleet maintenance
- Mining maintenance
- Public works garage
- Construction vehicle maintenance
- Heavy-duty mobile service trucks
- Mining
- Remote job sites

### TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Fuel (diesel/gasoline/kerosene)
- Water/waste water
- Antifreeze
- Windshield washer fluid
- Waste oil
- DEF

| Part Number                                    | 25T460 | 25T461 | 25T462 |
|------------------------------------------------|--------|--------|--------|
| No Monthly Fees                                | •      |        |        |
| No Maintenance Contract                        | •      | •      | •      |
| Easy-to-Use Software for Monitoring Data       | •      | •      | •      |
| Easily Replaceable Batteries                   | •      | •      | •      |
| NPT Thread for Easy Installation               | •      | •      | •      |
| Viewable Data with Other Models of Pulse Level | •      | •      | •      |
| LTE Cellular Coverage                          |        | •      | •      |
| Works in Remote Locations                      |        | •      | •      |
| 30 ft Tanks                                    |        |        | •      |
| Hazardous Environment Approved                 |        |        | •      |



## ULTRASONIC WI-FI



### No Ongoing Fees

Wi-Fi connection.

### Long Battery Life

7-year battery life with replaceable C batteries.

### On-Demand Reading

Ability to take reading at any time.

### Ultrasonic Sensor

Measure tanks 10 ft tall.

## ULTRASONIC CELLULAR



### Cellular Communication

No need for local network connection.

### On-Demand Reading

Ability to take reading at any time.

### Long Battery Life

5-year battery life with replaceable C batteries.

### Ultrasonic Sensor

Measure tanks 13 ft tall.

## PRESSURE CELLULAR



### Cellular Communication

No need for local network connection.

### Long Battery Life

Up to 10-year battery life.

### Hazardous-Location Rating

Approved for use with flammable fluids such as gasoline.

### Submersible Pressure Sensor

Measure tanks up to 30 ft tall.

# PULSE® LEVEL FLUID MANAGEMENT

## TECHNICAL SPECIFICATIONS

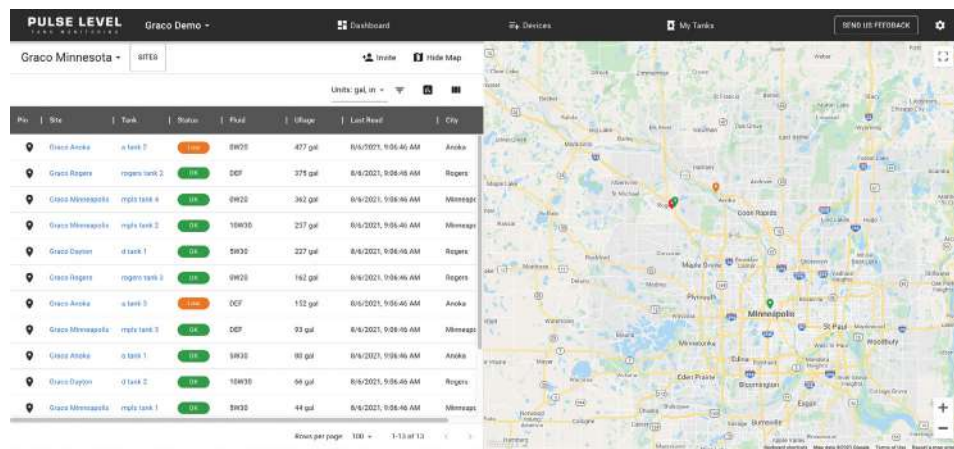
|                                     | Ultrasonic Wi-Fi TLM                                                                              | Ultrasonic Cellular TLM                                                                           | Pressure Cellular TLM                                                                                       |
|-------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Compatible Fluids                   | Oil, kerosene, diesel, lubricants, additives, DEF/AdBlue, coolants, water, waste oil, waste water | Oil, kerosene, diesel, lubricants, additives, DEF/AdBlue, coolants, water, waste oil, waste water | Oil, kerosene, diesel, lubricants, additives, DEF/AdBlue, coolants, water, waste oil, waste water, gasoline |
| Tank Depth Measurement Range        | 5.0 in to 9 ft-7 in                                                                               | 5.0 in to 13 ft                                                                                   | 30 ft                                                                                                       |
| Fluid Level Measurement Accuracy    | +/- 1.0 in                                                                                        | +/- 1.0 in                                                                                        | +/- 1.0 in                                                                                                  |
| Mounting                            | 1.25 in, 1.5 in and 2.0 in threaded NPT connector                                                 | 1.25 in, 1.5 in and 2.0 in threaded NPT connector                                                 | 1 in threaded NPT connector with wall-mounted logger                                                        |
| Clearance Height Above Tank for TLM | 7.5 in                                                                                            | 7.5 in                                                                                            | N/A                                                                                                         |
| Weight                              | 0.5 lb                                                                                            | 1.17 lb with batteries                                                                            | 0.75 lb                                                                                                     |
| RF Frequency Band                   | 2.412 GHz - 2.462 GHz                                                                             | LTE CAT-M1                                                                                        | LTE CAT-M1                                                                                                  |
| Maximum RF Transmit Power           | 18 dBm                                                                                            | 23 dBm                                                                                            | 23 dBm                                                                                                      |
| Operating Temperature Range         | 0°F to 122°F                                                                                      | 0°F to 122°F                                                                                      | -4°F to 131°F                                                                                               |
| Batteries                           | Li-SOC12 Size R14, 3.6V C-cell                                                                    | 4 x Alkaline C-cell                                                                               | Graco Part Number 19D216                                                                                    |
| Battery Life                        | 7.5 years* from activation                                                                        | 5 years*                                                                                          | 10 years* from activation                                                                                   |
| Enclosure (Ingress Protection)      | IP67                                                                                              | IP67                                                                                              | IP68                                                                                                        |
| Tanks                               |                                                                                                   |                                                                                                   |                                                                                                             |
| Maximum Volume                      | 999,999 gallons                                                                                   | 999,999 gallons                                                                                   | 999,999 gallons                                                                                             |
| Maximum Height                      | 9 ft-7 in                                                                                         | 13 ft                                                                                             | 30 ft                                                                                                       |
| Altitude                            | <6,000 ft                                                                                         | <6,000 ft                                                                                         | <6,000 ft                                                                                                   |

\*The battery life is based upon four (4) measurements per day and one (1) data drop per day from a location with adequate coverage, and a normal distribution over the operating temperature range centered at +25°C (77°F).

## PULSE LEVEL SOFTWARE

Pulse Level software has a simple intuitive design and gives you powerful information at your fingertips. Get a quick consolidated view of key sites via a specifically designed web page. Track tank levels at a glance, generate customizable reports and automated email alerts, and share critical information with other key decision makers.

- Intuitive alerts ensure your customers never run out of products
- See the status of each customer site on an easy-to-view map
- Advanced reporting – create and schedule automated reports to track history and see usage trends
- Expand the capabilities of your existing software systems with tank data from Pulse Level's API
- Simple annual and monthly billing options, or avoid charges altogether with Wi-Fi
- Allow customer to find insights on their own tanks by sharing Pulse Level data
- Use customers' existing Pulse Pro hardware to avoid the cost of additional monitors





# FLUID DEFENDER®

## DON'T TAKE RISKS WITH YOUR BULK FLUIDS

Designed for control of bulk fluid tanks, preventing overfill and pump runaway.

### Monitor and Control up to 5 Tanks

Manage an entire tank room with one system.

### Fresh Oil and Waste Oil Monitoring

Provides emergency shut off, over-fill and run away protection.

### Remote Filling

Allows for up to 1,000 feet between control box and tanks.

### Alarm Notifications

Siren, rotating beacon and remote lights.

### Pulse Integration

Integrate with Pulse® software for increased insights, analysis and control.

## TYPICAL APPLICATIONS

- Service shops
- Automotive dealerships
- Fast lube centers
- Agriculture dealers

## ORDERING OPTIONS

| Part Number | Description              |
|-------------|--------------------------|
| 25V470      | Fluid Defender           |
| 25V471      | Pulse Fluid Defender     |
| 25V475      | High Level Float         |
| 25V476      | Low Level 10 ft Float    |
| 25V477      | Low Level 30 ft Float    |
| 25V478      | Dual Level 10 ft Float   |
| 25V479      | Dual Level 30 ft Float   |
| 25V482      | Air Control Solenoid     |
| 18G108      | Single Light Bracket Kit |
| 18G109      | Multi-Light Bracket Kit  |



25V478



18G109



### FLUID DEFENDER

Control and monitor up to 5 tanks and utilize air solenoids to increase control and defend from overfill or pump run away.



### PULSE FLUID DEFENDER

Receive valuable tank data into the Pulse Pro software to further improve tracking and management of bulk fluids. Set email alerts to increase visibility to alarms during off-business hours.

## TECHNICAL SPECIFICATIONS

| CONTROLLERS                   |                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------|
| Dimensions (W x H x D)        | 11.88 in x 10.29 in x 6.43 in (30.18 cm x 26.14 cm x 16.33 cm)                  |
| Weight                        | 5 lbs (2.27 kg)                                                                 |
| Operating Temperature         | 14°F to 122°F (-10°C to 50°C)                                                   |
| Enclosure Rating              | NEMA Type 3R                                                                    |
| Power Requirement             | 120 VAC                                                                         |
| Audible Alarm                 | Yes                                                                             |
| Audible Alarm Pressure Level  | 103 dB(A)                                                                       |
| Visual Alarm Indicators       | Rotating beacon, red light, remote light (optional), email notification (Pulse) |
| Channels                      | 5                                                                               |
| FLOATS                        |                                                                                 |
| Single Tank Versions          | 10 ft and 30 ft (3.05 m and 9.14 m)                                             |
| Dual Tank Versions            | 10 ft and 30 ft (3.05 m and 9.14 m)                                             |
| Intended Use                  | Motor Oil, Waste Oil, ATF, Antifreeze, Diesel, WWS                              |
| Minimum Specific Gravity      | 0.75                                                                            |
| Amp Rating                    | 0.1 amp                                                                         |
| Maximum Fluid Viscosity       | 2,000 centipoise                                                                |
| Temperature Range             | 14°F to 122°F (-10°C to 50°C)                                                   |
| Minimum Detectable Tank Level | 2 in (5.1 cm)                                                                   |
| Minimum Head Space            | 5.5 in (2.54 cm)                                                                |

# TRADITIONAL BOX – WIRED FLUID CONTROL COMPONENTS

## ORDERING OPTIONS

### IN-LINE METERS

| Part Number | Description                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 236763      | Electronic pulse output meter (quarts)                                                                                               |
| 236764      | Electronic pulse output meter (liters)                                                                                               |
| 215474      | Mechanical pulse output meter (quarts)                                                                                               |
| 244342      | Meter pulse converter, used when upgrading old-style modular fluid commander to electronic allows use of 215474/215475 with the EFC. |

### AIR SOLENOID VALVES

| Part Number | Description                                                                                                                                                                                                                                                                                                |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 215407      | Air solenoid valve, 150 psi (10 bar) (1/2 npsm (f) conduit ports for wiring; 1/4 in NPT(F) air ports, adapted to 3/8 (f) IN, 3/8 (m) OUT) operates on 24V DC and 110 VAC. Automatically shuts-off air inlet to pump when pre-set dispensed amount is reached. Materials of construction: brass, SST, Buna. |
| 105474      | Air solenoid valve (bare) 150 psi (10 bar), same as 215407 but without wire connectors or adapters. 1/2 in npsm (f) conduit ports for wiring; 1/4 in NPT(F) air ports. 150 psi (10.3 bar) max. working pressure.                                                                                           |

### FLUID SOLENOID VALVES

| Part Number | Description                                                                                                                                                                                                               |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 215487      | Fluid solenoid valve, 1/2 in NPT(F) 3,000 psi (207 bar) operates on 24V DC. Automatically shuts-off fluid when pre-set dispensed amount is reached. Includes tube, valve, pin connector, wire plug connector and adapter. |
| 514150      | Fluid solenoid valve for antifreeze, 150 psi max. (10 bar), 1/2 in NPT(F), same features as 215487.                                                                                                                       |
| 110025      | Bare fluid solenoid valve, 1/2 in NPT(F) 3,000 psi, same features as 215487 above, but without wiring connectors or adapters.                                                                                             |

### READY-LIGHT KITS

| Part Number | Description                                                                                                                                                                        |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 218588      | Ready-light kit, signals operator when dispensing can begin. Includes "ready to dispense" indicator light (239019), strainer (240417), fluid solenoid valve (215487) and hardware. |
| 238996      | Ready-light with junction box (no solenoid or strainer)                                                                                                                            |
| 239019      | Ready-to-dispense indicator light only                                                                                                                                             |
| 113859      | Lamp for indicator only                                                                                                                                                            |

### INSTALLATION COMPONENTS

| Part Number | Description                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 111620      | Check valve                                                                                                                                              |
| 223179      | Fluid filter kit (for bare electronic meter)                                                                                                             |
| 186472      | Wall-mounting bracket                                                                                                                                    |
| 108458      | Fluid shut-off valve                                                                                                                                     |
| 237893      | Thermal relief kit for 900 psi (62 bar), relieves excess heat-induced pressure from dispense system. Male and female ends allow for simple installation. |

### CONNECTING CABLES FOR CONNECTING SOLENOIDS AND CONSOLES, 90-VOLT, 2-WIRE, 18-GAUGE

| Part Number | Description                                |
|-------------|--------------------------------------------|
| 215481      | 100 ft (30.5 m) pre-connected at both ends |



# OIL PUMPS







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# OIL PUMP SELECTION GUIDE

| Pump Family and Fluid Pressure Ratio                                                                                  | Typical Applications                                                                                                                                                                                                                                                            | Annual Usage             | Line Length            | Simultaneous Dispense Points | Approximate Free Flow Rate @ 100 psi | Air Inlet  | Fluid Inlet  | Fluid Outlet | Air Operation Range        | Reference Page |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|------------------------------|--------------------------------------|------------|--------------|--------------|----------------------------|----------------|
| <b>Fast-Ball 100</b><br>             | <ul style="list-style-type: none"> <li>Fluid transfer</li> <li>Specialty fluid dispenses</li> <li>Point of use</li> <li>Mobile fluid carts</li> </ul>                                                                                                                           | 5,000 gal (19,00 l)      | < 100 ft (30 m)        | 1 (no reels)                 | 5 gpm (18.9 lpm)                     | 1/4 NPT(F) | 1 NPT(F)     | 3/4 NPT(F)   | 40-150 psi (2.8-10.3 bar)  | 36             |
| <b>LD, 3:1</b><br>                   | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Service shops</li> </ul>                                                                                                     | 20,000 gal (75,000 l)    | 300 ft (91 m)          | 1 to 2                       | 7.8 gpm (29.5 lpm)                   | 1/4 NPT(F) | 1 NPT(F)     | 1/2 NPT(F)   | 20-150 psi (1.37-10.3 bar) | 38             |
| <b>LD, 5:1</b><br>                  | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Service shops</li> </ul>                                                                                                     | 20,000 gal (75,000 l)    | 300 ft (91 m)          | 1 to 2                       | 5 gpm (18.9 lpm)                     | 1/4 NPT(F) | 1 NPT(F)     | 1/2 NPT(F)   | 20-150 psi (1.37-10.3 bar) | 38             |
| <b>Mini Fire-Ball 225, 3:1</b><br> | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | 30,000 gal (113,500 l)   | 250 ft (76 m)          | 1 to 2                       | 1.8 gpm (6.8 lpm)                    | 3/8 NPT(F) | 1-1/2 NPT(F) | 1/2 NPT(F)   | 40-180 psi (2.8-12 bar)    | 56             |
| <b>Fire-Ball 300, 5:1</b><br>      | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | 35,000 gal (132,000 l)   | 500 ft (152 m)         | 1 to 3                       | 3 gpm (11.4 lpm)                     | 3/8 NPT(F) | 1-1/2 NPT(F) | 1/2 NPT(F)   | 40-180 psi (2.8-12 bar)    | 60             |
| <b>Fire-Ball 425, 3:1</b><br>      | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | > 35,000 gal (132,000 l) | Up to 250 ft (76 m)    | 3 to 4                       | 10 gpm (37.9 lpm)                    | 1/2 NPT(F) | 1-1/2 NPT(F) | 3/4 NPT(F)   | 40-180 psi (2.8-12 bar)    | 65             |
| <b>Fire-Ball 425, 6:1</b><br>      | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | > 35,000 gal (132,000 l) | Up to 500 ft (152 m)   | 3 to 4                       | 6 gpm (22.7 lpm)                     | 1/2 NPT(F) | 1-1/2 NPT(F) | 3/4 NPT(F)   | 40-180 psi (2.8-12 bar)    | 65             |
| <b>Fire-Ball 425, 10:1</b><br>     | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | > 35,000 gal (132,000 l) | Up to 750 ft (228.6 m) | 3 to 4                       | 4 gpm (@ 60 cpm) (lpm)               | 1/2 NPT(F) | 1-1/2 NPT(F) | 3/4 NPT(F)   | 40-180 psi (2.8-12 bar)    | 65             |



| Pump Family and Fluid Pressure Ratio                                                                             | Typical Applications                                                                                                                                                         | Annual Usage             | Line Length            | Simultaneous Dispense Points | Air Inlet  | Fluid Inlet  | Fluid Outlet | Air Operation Range     | Reference Page |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|------------------------------|------------|--------------|--------------|-------------------------|----------------|
| <b>NXT High Flo, 3.5:1</b><br>  | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 35,000 gal (132,000 l) | Up to 250 ft (76 m)    | 4 to 5                       | 3/4 NPT(F) | 1-1/2 NPT(F) | 1 NPT(F)     | 20-100 psi (1.4-7 bar)  | 75             |
| <b>NXT High Flo, 4.5:1</b><br>  | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 35,000 gal (132,000 l) | Up to 450 ft (137 m)   | 4 to 5                       | 3/4 NPT(F) | 1-1/2 NPT(F) | 1 NPT(F)     | 20-100 psi (1.4-7 bar)  | 75             |
| <b>NXT Dura-Flo, 6:1</b><br>    | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 35,000 gal (132,000 l) | Up to 500 ft (152 m)   | 2 to 4                       | 3/4 NPT(F) | 2 NPT(F)     | 1-1/2 NPT(F) | 20-100 psi (1.4-7 bar)  | 78             |
| <b>NXT Dura-Flo, 10:1</b><br>  | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 35,000 gal (132,000 l) | Up to 750 ft (228.6 m) | 2 to 4                       | 3/4 NPT(F) | 2 NPT(F)     | 1-1/2 NPT(F) | 20-100 psi (1.4-7 bar)  | 78             |
| <b>NXT Dura-Flo, 12:1</b><br> | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 35,000 gal (132,000 l) | Up to 1000 ft (305 m)  | 2 to 4                       | 3/4 NPT(F) | 2 NPT(F)     | 1-1/2 NPT(M) | 20-100 psi (1.4-7 bar)  | 78             |
| <b>NXT Dura-Flo, 23:1</b><br> | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 35,000 gal (132,000 l) | Up to 1000 ft (305 m)  | 2 to 4                       | 3/4 NPT(F) | 2 NPT(F)     | 1-1/2 NPT(M) | 20-75 psi (1.4-5.2 bar) | 78             |

| Pump Family and Fluid Pressure Ratio                                                                          | Typical Applications                                                                                                                                                                                                 | Maximum Output Flow Rate | Maximum Fluid Output Pressure | Hydraulic Inlet | Hydraulic Outlet | Fluid Inlet  | Fluid Outlet | Maximum Hydraulic Inlet Pressure | Reference Page |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|-----------------|------------------|--------------|--------------|----------------------------------|----------------|
| <b>Dyna-Star 1:1</b><br>   | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | 3 gpm (11 lpm)           | 1500 psi (102 bar)            | 3/8 NPT(F)      | 3/4 NPT(F)       | 1-1/2 NPT(F) | 1/2 NPT(F)   | 1500 psi (102 bar)               | 82             |
| <b>Dyna-Star 1/4:1</b><br> | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | 10 gpm (38 lpm)          | 375 psi (25.1 bar)            | 3/8 NPT(F)      | 3/4 NPT(F)       | 1-1/2 NPT(F) | 1/2 NPT(F)   | 1500 psi (102 bar)               | 82             |
| <b>Power-Star 1:1</b><br>  | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | 12 gpm (45 lpm)          | 1500 psi (102 bar)            | 3/4 NPT(F)      | 1-1/4 NPT(F)     | 1-1/2 NPT(F) | 1/2 NPT(F)   | 1500 psi (102 bar)               | 84             |

# FAST-BALL<sup>®</sup> 100 OIL PUMPS

## DESIGNED FOR ENHANCED QUALITY, DURABILITY AND RELIABILITY

When you purchase Graco, you expect the best. The fully redesigned Fast-Ball delivers unmatched Graco performance and operation. Its simple, easy-to-install design allows for efficient serviceability to minimize downtime and keep your operations running.



### In-Line Design

Means fewer parts for less pump wear.

### Double-Acting Pump

Provides reliable fluid flow.

### Differential Air Motor

Ensures smooth pump operation.

### 5-Year Warranty

Graco's quality guarantee and peace of mind.

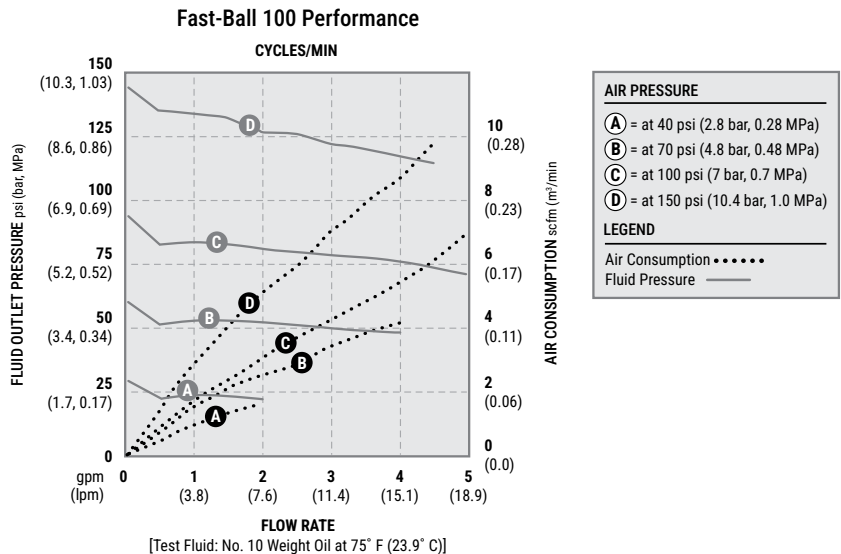
## TYPICAL APPLICATIONS

- Fluid transfer
- Specialty fluid dispenses
- Point of use
- Mobile fluid carts

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)

## PUMP PERFORMANCE





## TECHNICAL SPECIFICATIONS

|                               |                            |
|-------------------------------|----------------------------|
| Air Inlet Size                | 1/4 in NPT                 |
| Air Operating Range           | 40-150 psi ( 2.8-10.3 bar) |
| Compatible Material           | Oil, Gear Lube, ATF        |
| Maximum Fluid Flow            | 12.5 gpm (47.3 lpm)        |
| Fluid Inlet Size              | 1 in NPT                   |
| Fluid Outlet Size             | 3/4 in NPT                 |
| Maximum Air Inlet Pressure    | 150 psi (10.3 bar)         |
| Maximum Continuous Cycle Rate | 100 cpm                    |
| Maximum Working Pressure      | 150 psi (10.3 bar)         |
| Power Type                    | Pneumatic                  |
| Pump Ratio                    | 1:1                        |
| Sound Power Level             | 78 dB(A)                   |
| Weight                        | 6.3-9.8 lbs (2.9-4.4 kg)   |

## ORDERING OPTIONS

### PUMPS

| Part Number | Description                     |
|-------------|---------------------------------|
| 279035      | Universal Length Pump           |
| 279036      | Cut-to-Length PVC Downtube Pump |
| 279037      | 55 Gallon Drum Length Pump      |

### PUMP PACKAGES



| Package Number     | 2000726        | 2000727          |
|--------------------|----------------|------------------|
| Type of Package    | Spigot Kit     | Mobile Dolly Kit |
| Container Size     | 55 gal (200 l) | 55 gal (200 l)   |
| Ratio              | 1:1            | 1:1              |
| Pump               | 279037         | 279037           |
| Dispense Kit       | 218115         | 247712           |
| Air Regulator Kit  | 218316         | 24H420           |
| Air Hose Size      | 1/4 in x 6 ft  | 3/8 in x 6 ft    |
| Fluid Hose Size    | -              | 1/2 in x 15 ft   |
| Dolly Base         | -              | 129645           |
| Instruction Manual | 3A9348         | 3A9348           |

# LD SERIES OIL PUMPS

## DURABLE AND HARDWORKING

Stay ahead of the competition with LD Series pumps. These affordable and full-featured pumps are designed for lower-volume applications. LD pumps are fine-tuned for a compact, flexible and durable solution.



### Modular Air Valve

Air inlet and exhaust locations are easy to configure with just four bolts for simple, hassle-free installations.

### Pilot Valves

Patented self-cleaning design increases reliability in dirty air environments and minimizes pressure drop with rapid changeovers for reduced stalling and smoother flow.

### Engineered for Durability

Patented cup and plate design eliminates the need for O-rings that wear out faster, for a more durable, longer-lasting solution.

### Three Inch Air Motor

Provides more power to create better flow.

### Built-In Thermal Relief and Inlet Strainer

Built-in thermal relief protects your equipment from thermal expansion, and an inlet strainer is built in to protect pump from contaminants.

## TYPICAL APPLICATIONS

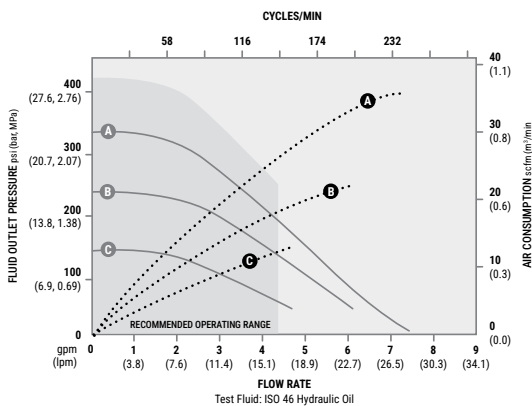
- Automotive dealerships
- Fast lube centers
- Service shops

## TYPICAL FLUIDS

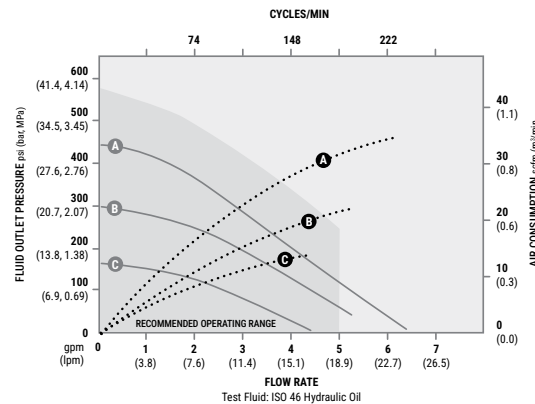
- Petroleum- and synthetic-based oils (motor, gear and ATF)

## PUMP PERFORMANCE

### LD SERIES 3:1 PUMPS



### LD SERIES 5:1 PUMPS



| AIR PRESSURE |                                  |
|--------------|----------------------------------|
| (A)          | = at 100 psi (6.9 bar, 0.69 MPa) |
| (B)          | = at 70 psi (4.8 bar, 0.48 MPa)  |
| (C)          | = at 40 psi (2.8 bar, 0.28 MPa)  |
| LEGEND       |                                  |
| .....        | Air Consumption                  |
| ————         | Fluid Pressure                   |



## TECHNICAL SPECIFICATIONS

|                                                 | LD Series 3:1                                                                            | LD Series 5:1                                                                            |
|-------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Fluid Pressure Ratio                            | 3:1                                                                                      | 5:1                                                                                      |
| Air Motor Effective Diameter                    | 3 in (76.2 mm)                                                                           | 3 in (76.2 mm)                                                                           |
| Maximum Fluid Working Pressure                  | 450 psi (31 bar / 3.1 MPa)                                                               | 750 psi (51.7 bar / 5.17 MPa)                                                            |
| Approximate Free Flow Rate @ 100 psi            | 7.8 gal/min (30 liters/min)                                                              | 6.7 gal/min (25 liters/min)                                                              |
| Output per Cycle                                | 131 cc                                                                                   | 102 cc                                                                                   |
| Approximate Air Use and Flow @ 100 psi (80 cpm) | 18 scfm @ 2.8 gpm<br>(0.51 m <sup>3</sup> /min @ 10.6 lpm)                               | 18 scfm @ 2.1 gpm<br>(0.51 m <sup>3</sup> /min @ 8.0 lpm)                                |
| Air Inlet                                       | 1/4 in                                                                                   | 1/4 in                                                                                   |
| Fluid Inlet                                     | 1 in                                                                                     | 1 in                                                                                     |
| Fluid Outlet                                    | 1/2 in                                                                                   | 1/2 in                                                                                   |
| Air Operation Range                             | 20 psi to 150 psi<br>(1.37 bar to 10.3 bar)                                              | 20 psi to 150 psi<br>(1.37 bar to 10.3 bar)                                              |
| Maximum Recommended Pump Speed                  | 120 cpm                                                                                  | 180 cpm                                                                                  |
| Cycles per Gallon (liter)                       | 29 (7.7)                                                                                 | 37 (9.8)                                                                                 |
| Wetted Parts                                    | Zinc plated carbon, steel,<br>aluminum, nitrile, polyurethane,<br>nickel plated aluminum | Zinc plated carbon, steel,<br>aluminum, nitrile, polyurethane,<br>nickel plated aluminum |
| Sound Pressure Level                            | 72.9 dB(A)                                                                               | 72.9 dB(A)                                                                               |
| Sound Power Level                               | 82 dB(A)                                                                                 | 82 dB(A)                                                                                 |
| Approximate Weight                              | 7 lb (3.2 kg)                                                                            | 7.7 lb (3.5 kg)                                                                          |
| Instruction Manual                              | 3A1334                                                                                   | 3A1334                                                                                   |

## ORDERING OPTIONS

### LD SERIES 3:1 PUMPS

| Part Number | Description                                                                               |
|-------------|-------------------------------------------------------------------------------------------|
| 24G576      | 3:1 Universal oil pump with bung adapter (24F918)                                         |
| 24G579      | 3:1 Oil pump with cut-to-length PVC downtube (16F878) and bung adapter (24F918)           |
| 24G582      | 3:1 Oil pump with 55 gal (200 liter) downtube (16F886) and bung adapter (24F918)          |
| 24G585      | 3:1 Oil pump with 275 gal (1,040 liter) steel downtube (16F885) and bung adapter (24F918) |

### LD SERIES 5:1 PUMPS

| Part Number | Description                                                                               |
|-------------|-------------------------------------------------------------------------------------------|
| 24G588      | 5:1 Universal oil pump with bung adapter (24F918)                                         |
| 24G591      | 5:1 Oil pump with cut-to-length PVC downtube (16F878) and bung adapter (24F918)           |
| 24G594      | 5:1 Oil pump with 55 gal (200 liter) steel downtube (16F886) and bung adapter (24F918)    |
| 24G597      | 5:1 Oil pump with 275 gal (1,040 liter) steel downtube (16F885) and bung adapter (24F918) |

# LD SERIES 3:1 OIL PUMP PACKAGES

## ORDERING OPTIONS

### MOBILE OIL PACKAGES – CART

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                    |                |                |                |                |        |          |        |          |
|--------------------|----------------|----------------|----------------|----------------|--------|----------|--------|----------|
| Package Number     | 24H751         | 24H750         | 24H753         | 24H752         | 24H775 | 24H774   | 24H777 | 24H776   |
| Ratio              | 3:1            | 3:1            | 3:1            | 3:1            | 3:1    | 3:1      | 3:1    | 3:1      |
| Pump Part Number   | 24G576         | 24G576         | 24G576         | 24G576         | 24G576 | 24G576   | 24G576 | 24G576   |
| Suction Tube Size  | 200 L          | 200 L          | 200 L          | 200 L          | 200 L  | 200 L    | 200 L  | 200 L    |
| Pump Downtube      | 16F886         | 16F886         | 16F886         | 16F886         | 16F886 | 16F886   | 16F886 | 16F886   |
| Meter Type         | Manual         | Manual         | Preset         | Preset         | Manual | Manual   | Preset | Preset   |
| Meter Part Number  | 25C903         | 25C904         | 256216         | 255277         | 25C903 | 25C904   | 256216 | 255277   |
| Meter Extension    | Rigid          | Flexible       | Rigid          | Flexible       | Rigid  | Flexible | Rigid  | Flexible |
| Hose Kit           | 24J495         | 24J495         | 24J495         | 24J495         | 24H865 | 24H865   | 24H865 | 24H865   |
| Hose Reel Type     | LDX            | LDX            | LDX            | LDX            | -      | -        | -      | -        |
| Hose Size          | 1/2 in x 50 ft | 1/2 in x 50 ft | 1/2 in x 50 ft | 1/2 in x 50 ft | -      | -        | -      | -        |
| Hose Reel          | HEM004         | HEM004         | HEM004         | HEM004         | -      | -        | -      | -        |
| 55 gal Cart        | 24F915         | 24F915         | 24F915         | 24F915         | 24F915 | 24F915   | 24F915 | 24F915   |
| Instruction Manual | 3A1335         | 3A1335         | 3A1335         | 3A1335         | 3A1335 | 3A1335   | 3A1335 | 3A1335   |



Package 24H775 installed on a 55 gallon drum (not included in package).



## ORDERING OPTIONS

### MOBILE OIL PACKAGES – DOLLY

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                    |                 |                 |                 |                 |
|--------------------|-----------------|-----------------|-----------------|-----------------|
| Package Number     | 25C551          | 25C553          | 25C550          | 25C552          |
| Ratio              | 3:1             | 3:1             | 3:1             | 3:1             |
| Pump Part Number   | 24G576          | 24G576          | 24G576          | 24G576          |
| Container Size     | 16 gal (120 lb) | 16 gal (120 lb) | 55 gal (400 lb) | 55 gal (400 lb) |
| Pump Downtube      | 16F878          | 16F878          | 16F886          | 16F886          |
| Meter Type         | Manual          | Preset          | Manual          | Preset          |
| Meter Part Number  | 25C903          | 256216          | 25C903          | 256216          |
| Meter Extension    | Rigid           | Rigid           | Rigid           | Rigid           |
| Hose Kit           | 24H865          | 24H865          | 24H865          | 24H865          |
| Portable Base      | 131184          | 131184          | 129645          | 129645          |
| Instruction Manual | 3A1335          | 3A1335          | 3A1335          | 3A1335          |

# LD SERIES 3:1 OIL PUMP PACKAGES

## ORDERING OPTIONS

### WALL MOUNT OIL PACKAGES

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                    |             |              |
|--------------------|-------------|--------------|
| Package Number     | 24H689      | 24H695       |
| Ratio              | 3:1         | 3:1          |
| Pump Part Number   | 24G576      | 24G576       |
| Suction Tube Size  | 55 gal drum | 275 gal tote |
| Suction Hose Kit   | 24F935      | 24H666       |
| Hose Kit           | -           | 24H859       |
| Wall Mount Bracket | 24F910      | 24F910       |
| Instruction Manual | 3A1335      | 3A1335       |



Package 24H695 installed on a 275 gallon tote (not included in package).

### Stationary Oil Packages

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                    |           |           |           |           |
|--------------------|-----------|-----------|-----------|-----------|
| Package Number     | 24H800    | 24H799    | 24H802    | 24H801    |
| Ratio              | 3:1       | 3:1       | 3:1       | 3:1       |
| Pump Part Number   | 24G576    | 24G576    | 24G576    | 24G576    |
| Suction Tube Size  | Universal | Universal | Universal | Universal |
| Pump Downtube      | 16F878    | 16F878    | 16F878    | 16F878    |
| Meter Type         | Manual    | Manual    | Preset    | Preset    |
| Meter Part Number  | 25C903    | 25C904    | 256216    | 255277    |
| Meter Extension    | Rigid     | Flexible  | Rigid     | Flexible  |
| Hose Kit           | 24H859    | 24H859    | 24H859    | 24H859    |
| Instruction Manual | 3A1335    | 3A1335    | 3A1335    | 3A1335    |



## ORDERING OPTIONS

### STATIONARY OIL PACKAGES – TOTE

Standard packages include LD Series hose reel. Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



| Package Number          | 24H702                                               | 24H704                                               | 24H726                                               | 24H728                                               |
|-------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Ratio                   | 3:1                                                  | 3:1                                                  | 3:1                                                  | 3:1                                                  |
| Pump Part Number        | 24G576                                               | 24G576                                               | 24G576                                               | 24G576                                               |
| Suction Tube Size       | 275 gal (1,040 l)                                    | 275 gal (1,040 l)                                    | 275 gal (1,040 l)                                    | 275 gal (1,040 l)                                    |
| Pump Downtube           | 16F885                                               | 16F885                                               | 24H669                                               | 24H669                                               |
| Mounting Position       | Top                                                  | Top                                                  | Drain                                                | Drain                                                |
| Reel Type               | LDX                                                  | LDX                                                  | LDX                                                  | LDX                                                  |
| Hose Reel Part Number   | HEM004                                               | HEM004                                               | HEM004                                               | HEM004                                               |
| Hose Size               | 1/2 in x 35 ft                                       | 1/2 in x 35 ft                                       | 1/2 in x 35 ft                                       | 1/2 in x 35 ft                                       |
| Reel Bracket Kit        | 24K285                                               | 24K285                                               | 24K285                                               | 24K285                                               |
| Meter Type              | Manual                                               | Preset                                               | Manual                                               | Preset                                               |
| Meter Part Number       | 25C903                                               | 256216                                               | 25C903                                               | 256216                                               |
| Meter Extension         | Rigid                                                | Rigid                                                | Rigid                                                | Rigid                                                |
| Hose Kit                | 6 ft x 3/8 in air hose /<br>6 ft x 1/2 in fluid hose | 6 ft x 3/8 in air hose /<br>6 ft x 1/2 in fluid hose | 6 ft x 3/8 in air hose /<br>6 ft x 1/2 in fluid hose | 6 ft x 3/8 in air hose /<br>6 ft x 1/2 in fluid hose |
| Hose Kit Part Number    | 24J495                                               | 24J495                                               | 24J495                                               | 24J495                                               |
| Top Mount Tote Bracket  | 24F930                                               | 24F930                                               | 24F931                                               | 24F931                                               |
| Tote Mount Pump Bracket | -                                                    | -                                                    | 24F920                                               | 24F920                                               |
| Meter Tray              | 24F914                                               | 24F914                                               | 24F914                                               | 24F914                                               |
| Instruction Manual      | 3A1335                                               | 3A1335                                               | 3A1335                                               | 3A1335                                               |

# LD SERIES 3:1 OIL PUMP PACKAGES

## ORDERING OPTIONS

### DELUXE STATIONARY OIL PACKAGES – TOTE

Deluxe packages include SDX Series hose reel. Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                           |                   |                   |
|---------------------------|-------------------|-------------------|
| Package Number            | 24K838            | 24K842            |
| Ratio                     | 3:1               | 3:1               |
| Pump Part Number          | 24G576            | 24G576            |
| Suction Tube Length       | 275 gal (1,040 l) | 275 gal (1,040 l) |
| Pump Downtube             | 16F885            | 16F885            |
| Reel Type                 | SDX               | SDX               |
| Hose Reel Part Number     | SDM6HB            | SDM6HB            |
| Meter Type                | Preset            | Manual            |
| Meter Part Number         | 256216            | 25C904            |
| Meter Extension           | Rigid             | Flexible          |
| Hoses and Fittings        | 24J495            | 24J495            |
| Top Mount Tote Bracket    | 24F930            | 24F930            |
| SDX Reel/IBC Tote Bracket | 24K285            | 24K285            |
| Meter Tray                | 24F914            | 24F914            |
| Instruction Manual        | 3A1335            | 3A1335            |



## ORDERING OPTIONS

### TANK MOUNT OIL PACKAGES

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                    |        |        |        |          |
|--------------------|--------|--------|--------|----------|
| Package Number     | 24J776 | 24J733 | 24J734 | 24K836   |
| Ratio              | 3:1    | 3:1    | 3:1    | 3:1      |
| Pump Part Number   | 24G576 | 24G576 | 24G576 | 24G576   |
| Hose Reel Type     | LDX    | SDX    | SDX    | SDX      |
| Hose Reel          | HEM004 | SDM65B | SDM65B | SDM65B   |
| Meter Type         | Manual | Manual | Preset | Manual   |
| Meter Part Number  | 25C903 | 25C903 | 256216 | 25C904   |
| Meter Extension    | Rigid  | Rigid  | Rigid  | Flexible |
| Inlet Kit          | 25U371 | 218549 | 218549 | 218549   |
| Instruction Manual | 3A1335 | 3A1335 | 3A1335 | 3A1335   |

# LD SERIES 3:1 OIL PUMP PACKAGES

## ORDERING OPTIONS

### DELUXE TANK MOUNT OIL PACKAGES

Deluxe packages include SDX hose reel, air and fluid hoses with fittings, and mini air regulator.



|                                   |                |                |                |                |
|-----------------------------------|----------------|----------------|----------------|----------------|
| Package Number                    | 24K777         | 24K797         | 24K799         | 24K834         |
| Ratio                             | 3:1            | 3:1            | 3:1            | 3:1            |
| Pump Part Number                  | 24G576         | 24G576         | 24G576         | 24G576         |
| Hose Reel Type                    | SDX            | SDX            | SDX            | SDX            |
| Hose Size                         | 1/2 in x 50 ft | 1/2 in x 50 ft | 1/2 in x 50 ft | 1/2 in x 35 ft |
| Hose Reel                         | SDM65B         | SDM65B         | SDM65B         | SDM33B         |
| Meter Type                        | Preset         | Manual         | Manual         | Manual         |
| Meter Part Number                 | 256216         | 25C903         | 25C904         | 25C903         |
| Meter Extension                   | Rigid          | Rigid          | Flexible       | Rigid          |
| Air and Fluid Hoses with Fittings | 24J495         | 24J495         | 24J495         | 24J495         |
| Mini Air Regulator with Gauge     | 24H420         | 24H420         | 24H420         | 24H420         |
| Instruction Manual                | 3A1335         | 3A1335         | 3A1335         | 3A1335         |



# LD SERIES 5:1 OIL PUMP PACKAGES

## ORDERING OPTIONS

### MOBILE OIL PACKAGES – CART

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                    |                |                |                |                |        |          |        |          |
|--------------------|----------------|----------------|----------------|----------------|--------|----------|--------|----------|
| Package Number     | 24H916         | 24H915         | 24H918         | 24H917         | 24H941 | 24H940   | 24H943 | 24H942   |
| Ratio              | 5:1            | 5:1            | 5:1            | 5:1            | 5:1    | 5:1      | 5:1    | 5:1      |
| Pump Part Number   | 24G588         | 24G588         | 24G588         | 24G588         | 24G588 | 24G588   | 24G588 | 24G588   |
| Suction Tube Size  | 200 L          | 200 L          | 200 L          | 200 L          | 200 L  | 200 L    | 200 L  | 200 L    |
| Pump Downtube      | 16F886         | 16F886         | 16F886         | 16F886         | 16F886 | 16F886   | 16F886 | 16F886   |
| Meter Type         | Manual         | Manual         | Preset         | Preset         | Manual | Manual   | Preset | Preset   |
| Meter Part Number  | 25C903         | 25C904         | 256216         | 255277         | 25C903 | 25C904   | 256216 | 255277   |
| Meter Extension    | Rigid          | Flexible       | Rigid          | Flexible       | Rigid  | Flexible | Rigid  | Flexible |
| Hose Kit           | 24J495         | 24J495         | 24J495         | 24J495         | 24H865 | 24H865   | 24H865 | 24H865   |
| Hose Reel Type     | LDX            | LDX            | LDX            | LDX            | -      | -        | -      | -        |
| Hose Size          | 1/2 in x 50 ft | 1/2 in x 50 ft | 1/2 in x 50 ft | 1/2 in x 50 ft | -      | -        | -      | -        |
| Hose Reel          | HEM004         | HEM004         | HEM004         | HEM004         | -      | -        | -      | -        |
| 55 gal Cart        | 24F915         | 24F915         | 24F915         | 24F915         | 24F915 | 24F915   | 24F915 | 24F915   |
| Instruction Manual | 3A1335         | 3A1335         | 3A1335         | 3A1335         | 3A1335 | 3A1335   | 3A1335 | 3A1335   |

OIL PUMPS AND PACKAGES



Package 24H941 installed on a 55 gallon drum (not included in package).

# LD SERIES 5:1 OIL PUMP PACKAGES

## ORDERING OPTIONS

### MOBILE OIL PACKAGES – DOLLY

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                    |                 |                 |                 |                 |
|--------------------|-----------------|-----------------|-----------------|-----------------|
| Package Number     | 25C555          | 25C557          | 25C554          | 25C556          |
| Ratio              | 5:1             | 5:1             | 5:1             | 5:1             |
| Pump Part Number   | 24G588          | 24G588          | 24G588          | 24G588          |
| Container Size     | 16 gal (120 lb) | 16 gal (120 lb) | 55 gal (400 lb) | 55 gal (400 lb) |
| Pump Downtube      | 16F878          | 16F878          | 16F886          | 16F886          |
| Meter Type         | Manual          | Preset          | Manual          | Preset          |
| Meter Part Number  | 25C903          | 256216          | 25C903          | 256216          |
| Meter Extension    | Rigid           | Rigid           | Rigid           | Rigid           |
| Hose Kit           | 24H865          | 24H865          | 24H865          | 24H865          |
| Portable Base      | 131184          | 131184          | 129645          | 129645          |
| Instruction Manual | 3A1335          | 3A1335          | 3A1335          | 3A1335          |



## ORDERING OPTIONS

### WALL MOUNT OIL PACKAGES

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                    |             |              |
|--------------------|-------------|--------------|
| Package Number     | 24H836      | 24H842       |
| Ratio              | 5:1         | 5:1          |
| Pump Part Number   | 24G588      | 24G588       |
| Suction Tube Size  | 55 gal drum | 275 gal tote |
| Suction Hose Kit   | 24F935      | 24H666       |
| Hose Kit           | -           | 24H859       |
| Wall Mount Bracket | 24F910      | 24F910       |
| Instruction Manual | 3A1335      | 3A1335       |



Package 24H842 installed on a 275 gallon tote (not included in package).

OIL PUMPS AND PACKAGES

### STATIONARY OIL PACKAGES

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                    |           |           |           |           |
|--------------------|-----------|-----------|-----------|-----------|
| Package Number     | 24H965    | 24H964    | 24H967    | 24H966    |
| Ratio              | 5:1       | 5:1       | 5:1       | 5:1       |
| Pump Part Number   | 24G588    | 24G588    | 24G588    | 24G588    |
| Suction Tube Size  | Universal | Universal | Universal | Universal |
| Pump Downtube      | 16F878    | 16F878    | 16F878    | 16F878    |
| Meter Type         | Manual    | Manual    | Preset    | Preset    |
| Meter Part Number  | 25C903    | 25C904    | 256216    | 255277    |
| Meter Extension    | Rigid     | Flexible  | Rigid     | Flexible  |
| Hose Kit           | 24H859    | 24H859    | 24H859    | 24H859    |
| Instruction Manual | 3A1335    | 3A1335    | 3A1335    | 3A1335    |

# LD SERIES 5:1 OIL PUMP PACKAGES

## ORDERING OPTIONS

### STATIONARY OIL PACKAGES – TOTE

Standard packages include LD Series hose reel. Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                         |                                                      |                                                      |                                                      |                                                      |
|-------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Package Number          | 24H868                                               | 24H870                                               | 24H892                                               | 24H894                                               |
| Ratio                   | 5:1                                                  | 5:1                                                  | 5:1                                                  | 5:1                                                  |
| Pump Part Number        | 24G588                                               | 24G588                                               | 24G588                                               | 24G588                                               |
| Suction Tube Size       | 275 gal (1,040 l)                                    | 275 gal (1,040 l)                                    | 275 gal (1,040 l)                                    | 275 gal (1,040 l)                                    |
| Pump Downtube           | 16F885                                               | 16F885                                               | 24H669                                               | 24H669                                               |
| Mounting Position       | Top                                                  | Top                                                  | Drain                                                | Drain                                                |
| Reel Type               | LDX                                                  | LDX                                                  | LDX                                                  | LDX                                                  |
| Hose Reel Part Number   | HEM004                                               | HEM004                                               | HEM004                                               | HEM004                                               |
| Hose Size               | 1/2 in x 35 ft                                       | 1/2 in x 35 ft                                       | 1/2 in x 35 ft                                       | 1/2 in x 35 ft                                       |
| Reel Bracket Kit        | 24K285                                               | 24K285                                               | 24K285                                               | 24K285                                               |
| Meter Type              | Manual                                               | Preset                                               | Manual                                               | Preset                                               |
| Meter Part Number       | 25C903                                               | 256216                                               | 25C903                                               | 256216                                               |
| Meter Extension         | Rigid                                                | Rigid                                                | Rigid                                                | Rigid                                                |
| Hose Kit                | 6 ft x 3/8 in air hose /<br>6 ft x 1/2 in fluid hose | 6 ft x 3/8 in air hose /<br>6 ft x 1/2 in fluid hose | 6 ft x 3/8 in air hose /<br>6 ft x 1/2 in fluid hose | 6 ft x 3/8 in air hose /<br>6 ft x 1/2 in fluid hose |
| Hose Kit Part Number    | 24J495                                               | 24J495                                               | 24J495                                               | 24J495                                               |
| Top Mount Tote Bracket  | 24F930                                               | 24F930                                               | 24F931                                               | 24F931                                               |
| Tote Mount Pump Bracket | -                                                    | -                                                    | 24F920                                               | 24F920                                               |
| Meter Tray              | 24F914                                               | 24F914                                               | 24F914                                               | 24F914                                               |
| Instruction Manual      | 3A1335                                               | 3A1335                                               | 3A1335                                               | 3A1335                                               |



## ORDERING OPTIONS

### DELUXE STATIONARY OIL PACKAGES – TOTE

Deluxe packages include SDX Series hose reel. Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



| Package Number         | 24K839            | 24K843            |
|------------------------|-------------------|-------------------|
| Ratio                  | 5:1               | 5:1               |
| Pump Part Number       | 24G588            | 24G588            |
| Suction Tube Length    | 275 gal (1,040 l) | 275 gal (1,040 l) |
| Pump Downtube          | 16F885            | 16F885            |
| Reel Type              | SDX               | SDX               |
| Hose Reel Part Number  | SDM65B            | SDM65B            |
| Hose Reel Bracket      | 24K285            | 24K285            |
| Meter Type             | Preset            | Manual            |
| Meter Part Number      | 256216            | 25C904            |
| Meter Extension        | Rigid             | Flexible          |
| Hoses and Fittings     | 24J495            | 24J495            |
| Top Mount Tote Bracket | 24F930            | 24F930            |
| Meter Tray             | 24F914            | 24F914            |
| Instruction Manual     | 3A1335            | 3A1335            |

# LD SERIES 5:1 OIL PUMP PACKAGES

## ORDERING OPTIONS

### OIL PACKAGES – TANK MOUNT

Self-relieving air regulator must be used for LD pump thermal relief function. Order regulator 24H420 or filter-regulator 133215 separately.



|                       |        |        |        |          |
|-----------------------|--------|--------|--------|----------|
| Package Number        | 24J777 | 24J735 | 24J736 | 24K837   |
| Ratio                 | 5:1    | 5:1    | 5:1    | 5:1      |
| Pump Part Number      | 24G588 | 24G588 | 24G588 | 24G588   |
| Reel Type             | LDX    | SDX    | SDX    | SDX      |
| Hose Reel Part Number | HEM004 | SDM65B | SDM65B | SDM65B   |
| Meter Type            | Manual | Manual | Preset | Manual   |
| Meter Part Number     | 25C903 | 25C903 | 256216 | 25C904   |
| Meter Extension       | Rigid  | Rigid  | Rigid  | Flexible |
| Inlet Kit             | 25U371 | 218549 | 218549 | 218549   |
| Instruction Manual    | 3A1335 | 3A1335 | 3A1335 | 3A1335   |



## ORDERING OPTIONS

### DELUXE OIL PACKAGES – TANK MOUNT

Deluxe packages include SDX hose reel, air and fluid hoses with fittings, and mini air regulator.





|                                   |                                    |                                    |                                    |                                      |
|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------------|
| Package Number                    | 24K796                             | 24K798                             | 24K800                             | 24K835                               |
| Ratio                             | 5:1                                | 5:1                                | 5:1                                | 5:1                                  |
| Pump Part Number                  | 24G588                             | 24G588                             | 24G588                             | 24G588                               |
| Reel Type                         | SDX                                | SDX                                | SDX                                | SDX                                  |
| Hose Size                         | 1/2 in x 50 ft<br>(12.7 mm x 15 m) | 1/2 in x 50 ft<br>(12.7 mm x 15 m) | 1/2 in x 50 ft<br>(12.7 mm x 15 m) | 1/2 in x 35 ft<br>(12.7 mm x 10.6 m) |
| Hose Reel Part Number             | SDM65B                             | SDM65B                             | SDM65B                             | SDM33B                               |
| Meter Type                        | Preset                             | Manual                             | Manual                             | Manual                               |
| Meter Part Number                 | 256216                             | 25C903                             | 25C904                             | 25C903                               |
| Meter Extension                   | Rigid                              | Rigid                              | Flexible                           | Rigid                                |
| Air and Fluid Hoses with Fittings | 24J495                             | 24J495                             | 24J495                             | 24J495                               |
| Mini Air Regulator with Gauge     | 24H420                             | 24H420                             | 24H420                             | 24H420                               |
| Instruction Manual                | 3A1335                             | 3A1335                             | 3A1335                             | 3A1335                               |


# LD SERIES OIL PUMP ACCESSORIES

## ORDERING OPTIONS


### AIR REGULATORS

|                                                                                   | Part Number | Description                                                                       |
|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------|
|  | 24H420      | Mini air pressure regulator with gauge, 1/4 in NPT x 3/8 in NPT, self-relieving   |
|  | 133215      | Mini air filter-regulator with gauge, 1/4 in NPT, self-relieving, semi-auto drain |


### CARTS

|                                                                                   | Part Number | Description                                                                                   |
|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------|
|  | 24F915      | Drum cart with pneumatic wheels for 55 gallon drums, includes chain for securing drum to cart |


### LD DRUM DOLLIES

|                                                                                     | Part Number | Description                         |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------|
|  | 131183      | Drum dolly for 35 lb (16 kg) drum   |
|                                                                                     | 131184      | Drum dolly for 120 lb (54 kg) drum  |
|                                                                                     | 129645      | Drum dolly for 400 lb (182 kg) drum |


### DOWNTUBES

|                                                                                     | Part Number | Description                          |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------|
|  | 16F878      | Universal cut to length PVC downtube |
|                                                                                     | 16F886      | Drum length steel downtube           |
|                                                                                     | 16F885      | Tote length steel downtube           |

### DRUM COVERS

|                                                                                     | Part Number | Description                      |
|-------------------------------------------------------------------------------------|-------------|----------------------------------|
|  | 24F904      | Cover for 35 lb (16 kg) pails    |
|                                                                                     | 24F905      | Cover for open-head 120 lb drums |
|                                                                                     | 24F906      | Cover for open-head 400 lb drums |


### HOSE AND FITTING KITS

|                                                                                     | Part Number | Description                  | Kit Includes   |               |        |               |
|-------------------------------------------------------------------------------------|-------------|------------------------------|----------------|---------------|--------|---------------|
|                                                                                     |             |                              | Fluid Hose     | Air Hose      | Swivel | Union Fitting |
|  | 24H865      | 15 ft LD pump fluid hose kit | 1/2 in x 15 ft | 3/8 in x 6 ft | 157705 | 156684        |
|                                                                                     | 24H859      | 6 ft LD pump fluid hose kit  | 1/2 in x 6 ft  | 3/8 in x 6 ft | 157705 | 156684        |





## ORDERING OPTIONS







### SUCTION KITS

|  | Part Number | Description                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | 24F935      | LD oil pump suction hose kit for 55 gal (200 L) drum. Includes 55 gal (200 L) drum length metal downtube, bung adapter, foot valve and 6 ft of 1 in suction hose                               |
|                                                                                   | 24H666      | LD oil pump suction hose kit for 275 gal (1,040 L) drum. Includes 275 gal (1,040 L) tote length metal downtube, bung adapter, foot valve and 6 ft of 1 in suction hose                         |
|                                                                                   | 24H669      | LD oil pump suction hose kit and adapter for mounting pump to the side of IBC tote and dispensing from drain. Includes 1 in x 3 ft suction hose, 1 in elbow fitting and union fitting (160022) |

### MOUNTING HARDWARE

|   | Part Number | Description                          |
|------------------------------------------------------------------------------------|-------------|--------------------------------------|
|                                                                                    | 24F910      | LD Series pump wall mounting bracket |
|  | 24F918      | Bung adapter                         |

### TOTE MOUNT ACCESSORIES

|  | Part Number | Description                                                                                                    |
|-------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------|
|                                                                                     | 24F914      | Meter drip tray for mounting to the side of IBC tote                                                           |
|  | 24F932      | LD Series reel bracket for mounting reel to IBC top mount tote bracket (24F930 and 24F920)                     |
|  | 24F931      | Tote mounting bracket to mount reel on top of IBC tote (pump mounting bracket is not included)                 |
|  | 24F930      | Top of tote mounting bracket. For mounting LD Series pump in top of IBC tote.                                  |
|  | 24F920      | Bracket for mounting LD Series pump on the side of IBC tote                                                    |
|  | 24K285      | Bracket for mounting SDX Series hose reel to IBC tote mounting bracket 24F930 (24F930 bracket sold separately) |

# MINI FIRE-BALL® 225 OIL PUMPS

## PERFECT FOR MEDIUM PRESSURE, LOW-VOLUME APPLICATIONS

You can't afford downtime, especially when your shop is small. The Mini Fire-Ball 225 is designed with fewer moving parts, which means less wear and tear and reduced downtime, allowing you to run a more profitable business.



### Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

### Fewer Repairs

Fewer moving parts in the air motor assembly means less downtime and low repair cost.

### Extended Seal Life

In-line pump design aligns the air motor piston and fluid piston rods to maximize seal life.

### Superior Sealing

Non-metallic poppet valves offer positive sealing performance, even with contaminated "dirty" air environments for long life without repair.

### Corrosion-Resistant

Corrosion-resistant design utilizes liquid salt nitriding, nickel plating, stainless steel, aluminum and chrome on key components for longer life.

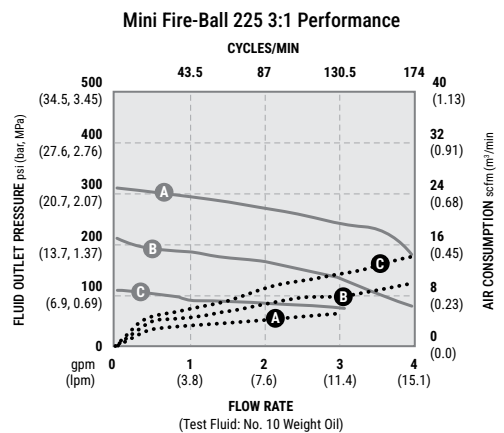
## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)

## PUMP PERFORMANCE



| AIR PRESSURE |                                  |
|--------------|----------------------------------|
| (A)          | = at 100 psi (6.9 bar, 0.69 MPa) |
| (B)          | = at 70 psi (4.8 bar, 0.48 MPa)  |
| (C)          | = at 40 psi (2.8 bar, 0.28 MPa)  |
| LEGEND       |                                  |
| .....        | Air Consumption                  |
| —            | Fluid Pressure                   |



## TECHNICAL SPECIFICATIONS

|                                                 |                                                       |
|-------------------------------------------------|-------------------------------------------------------|
| Fluid Pressure Ratio                            | 3:1                                                   |
| Air Motor Effective Diameter                    | 2.25 in (57.2 mm)                                     |
| Maximum Fluid Working Pressure                  | 540 psi (37 bar / 3.7 MPa)                            |
| Approximate Free Flow Rate @ 100 psi            | 8.3 gal/min (32 liters/min)                           |
| Output per Cycle                                | 87 cc                                                 |
| Approximate Air Use and Flow @ 100 psi (80 cpm) | 9 scfm @ 1.9 gpm (0.25 m <sup>3</sup> /min @ 7.2 lpm) |
| Air Inlet                                       | 3/8 in NPT(F)                                         |
| Fluid Inlet                                     | 1-1/2 in NPT(F)                                       |
| Fluid Outlet                                    | 1/2 in NPT(F)                                         |
| Air Operation Range                             | 40 psi to 180 psi (2.8 bar to 12 bar)                 |
| Maximum Recommended Pump Speed                  | 100 cpm                                               |
| Cycles per Gallon (Liter)                       | 43.5 (11.5)                                           |
| Wetted Parts                                    | Steel, Buna-N, polyurethane, aluminum, Rulon®         |
| Sound Pressure Level                            | 77.8 dB(A)                                            |
| Sound Power Level                               | 85.6 dB(A)                                            |
| Approximate Weight                              | 16 lb (7.3 kg)                                        |
| Instruction Manual                              | 309868                                                |

## ORDERING OPTIONS

### MINI FIRE-BALL 225 3:1 PUMPS

| Part Number | Description                                                                 |
|-------------|-----------------------------------------------------------------------------|
| 246775      | 3:1 Universal oil pump                                                      |
| 248097      | 3:1 Universal oil pump with suction tube (15C502) and bung adapter (222308) |

# MINI FIRE-BALL 225 3:1 OIL PUMP PACKAGES

## ORDERING OPTIONS

### OIL PACKAGES



|                               |                                    |                                    |                                    |                                    |                                       |
|-------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---------------------------------------|
| Package Number                | 246903*                            | 246904*                            | 246906*                            | 246907**                           | 248230**                              |
| Ratio                         | 3:1                                | 3:1                                | 3:1                                | 3:1                                | 3:1                                   |
| Package Type                  | Portable                           | Cover-mounted                      | Cover-mounted                      | Bung-mounted                       | Bung-mounted                          |
| Maximum Container Size        | 16 gal (60 l)                      | 16 gal (60 l)                      | 55 gal (200 l)                     | 55 gal (200 l)                     | 275 gal (1,040 l)                     |
| Pump                          | 248097                             | 248097                             | 248097                             | 248097                             | 246775                                |
| Meter Type                    | Manual                             | -                                  | -                                  | -                                  | -                                     |
| Meter Part Number             | 25M413                             | -                                  | -                                  | -                                  | -                                     |
| Meter Extension               | Rigid                              | -                                  | -                                  | -                                  | -                                     |
| Dispense/<br>Hose Fitting Kit | 237075                             | 222063                             | 222063                             | 222063                             | 222062                                |
| Fluid Hose Size               | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) | 1/2 in x 1.5 ft<br>(12.7 mm x 0.46 m) |
| Air Hose Size                 | -                                  | 3/8 in x 6 ft<br>(9.5 mm x 1.8 m)  | 3/8 in x 6 ft<br>(9.5 mm x 1.8 m)  | 3/8 in x 6 ft<br>(9.5 mm x 1.8 m)  | 3/8 in x 1.5 ft<br>(9.5 mm x 0.46 m)  |
| Air Regulator                 | 224512                             | 224512                             | 224512                             | -                                  | -                                     |
| Pump Shim                     | 17C270                             | 17C270                             | 17C270                             | -                                  | -                                     |
| Cover                         | 24R350                             | 24R350                             | 200326                             | -                                  | -                                     |
| Caster Base                   | 203622                             | -                                  | -                                  | -                                  | -                                     |
| Instruction Manual            | 307884                             | 307883                             | 307883                             | 307883                             | 309868                                |

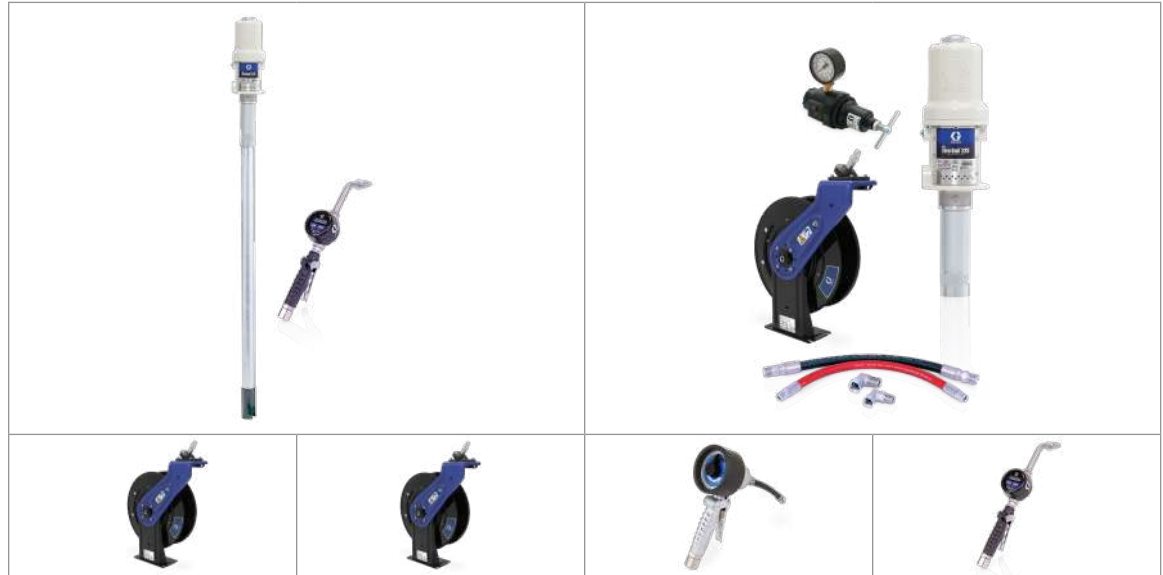
\*Order low-level shut-off (203688) (1-1/2 in NPT) separately for metered dispense systems.

\*\*Order low-level shut-off (203688) (1-1/2 in NPT) separately for metered dispense systems. Use 3/8 in (9.5 mm) air regulator (109075) as required; must be ordered separately.



## ORDERING OPTIONS

### BULK OIL DISPENSING PACKAGES



|                    |                                      |                                    |                                      |                                      |
|--------------------|--------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|
| Package Number     | 248623*                              | 248622*                            | 24F205                               | 24F206                               |
| Ratio              | 3:1                                  | 3:1                                | 3:1                                  | 3:1                                  |
| Pump               | 248097                               | 248097                             | 246775                               | 246775                               |
| Bung Adapter       | -                                    | -                                  | 222308                               | 222308                               |
| Reel Size          | 1/2 in x 50 ft<br>(12.7 mm x 15.2 m) | 1/2 in x 35 ft<br>(12.7 mm x 11 m) | 1/2 in x 50 ft<br>(12.7 mm x 15.2 m) | 1/2 in x 50 ft<br>(12.7 mm x 15.2 m) |
| Reel Type          | SDX                                  | SDX                                | SDX                                  | SDX                                  |
| Hose Reel          | SDM65B                               | SDM33B                             | SDM65B                               | SDM65B                               |
| Meter Type         | EM8                                  | EM8                                | Mechanical                           | EM8                                  |
| Manual/Preset      | Manual                               | Manual                             | Manual                               | Manual                               |
| Meter              | 25C903                               | 25C903                             | 24V034                               | 25C903                               |
| Installation Kit   | -                                    | -                                  | 222062                               | 222062                               |
| Air Regulator      | -                                    | -                                  | 109075                               | 109075                               |
| Instruction Manual | 309868, 312668, 313431               | 309868, 312668, 313431             | 309868, 313431                       | 309868, 313431                       |

\*Order (218549) (1/2 in x 24 in) hose kit separately.

# FIRE-BALL 300 5:1 OIL PUMPS

## IDEAL FOR MEDIUM-SIZED SHOPS WITH HIGH-PRESSURE OIL TRANSFER

Install the Fire-Ball 300 in high-pressure, medium-volume oil dispense applications such as automotive dealerships, fast lube centers and service shops. A three inch differential air motor ensures smooth pumping, and the smooth double-acting pump design provides reliable fluid flow and accurate dispense.



### Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

### Fewer Repairs

Fewer moving parts in the air motor assembly means less downtime and low repair cost.

### Extended Seal Life

In-line pump design aligns the air motor piston and fluid piston rods to maximize seal life.

### Superior Sealing

Non-metallic poppet valves offer positive sealing performance, even with contaminated "dirty" air environments for long life without repair.

### Corrosion-Resistant

Corrosion-resistant design utilizes liquid salt nitriding, nickel plating, stainless steel, aluminum and chrome on key components for longer life.

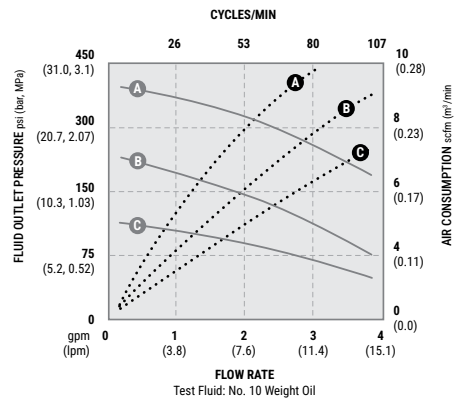
## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)

## PUMP PERFORMANCE



| AIR PRESSURE |                                  |
|--------------|----------------------------------|
| (A)          | = at 100 psi (6.9 bar, 0.69 MPa) |
| (B)          | = at 70 psi (4.8 bar, 0.48 MPa)  |
| (C)          | = at 40 psi (2.8 bar, 0.28 MPa)  |
| LEGEND       |                                  |
| .....        | Air Consumption                  |
| —            | Fluid Pressure                   |



## TECHNICAL SPECIFICATIONS

|                                                 |                                                         |
|-------------------------------------------------|---------------------------------------------------------|
| Fluid Pressure Ratio                            | 5:1                                                     |
| Air Motor Effective Diameter                    | 3 in (76.2 mm)                                          |
| Maximum Fluid Working Pressure                  | 900 psi (62 bar / 6.2 MPa)                              |
| Approximate Free Flow Rate @ 100 psi            | 12.1 gal/min (46 liters/min)                            |
| Output per Cycle                                | 133 cc                                                  |
| Approximate Air Use and Flow @ 100 psi (80 cpm) | 16 scfm @ 2.8 gpm (0.45 m <sup>3</sup> /min @ 10.6 lpm) |
| Air Inlet                                       | 3/8 in NPT(F)                                           |
| Fluid Inlet                                     | 1-1/2 in NPT(F)                                         |
| Fluid Outlet                                    | 1/2 in NPT(F)                                           |
| Air Operation Range                             | 40 psi to 180 psi (2.8 bar to 12 bar)                   |
| Maximum Recommended Pump Speed                  | 70 cpm                                                  |
| Cycles per Gallon (Liter)                       | 28.4 (7.5)                                              |
| Wetted Parts                                    | Steel, polyurethane, aluminum, Buna-N                   |
| Sound Pressure Level                            | 77.8 dB(A)                                              |
| Sound Power Level                               | 85.6 dB(A)                                              |
| Approximate Weight                              | 17 lb (7.7 kg)                                          |
| Instruction Manual                              | 306518                                                  |

## ORDERING OPTIONS

### FIRE-BALL 300 5:1 PUMPS

| Part Number | Description                                              |
|-------------|----------------------------------------------------------|
| 203876      | 5:1 Universal oil pump                                   |
| 203872      | 5:1 Oil pump, 16 gal (120 lb) drum size, for cover mount |
| 203857      | 5:1 Oil pump, 55 gal (400 lb) drum size, for cover mount |
| 204254      | 5:1 Oil pump, 55 gal (400 lb) drum size, bung mount      |
| 222087      | 5:1 Oil pump, 275 gal (1,040 lb) tank size, bung mount   |

# FIRE-BALL 300 5:1 OIL PUMP PACKAGES

## ORDERING OPTIONS

### OIL PUMP PACKAGES



|                               |                                    |                                    |                                    |                                    |                                    |                                       |
|-------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---------------------------------------|
| Package Number                | 225728*                            | 225094**                           | 225642**                           | 225640**                           | 225931**                           | 225852**                              |
| Ratio                         | 5:1                                | 5:1                                | 5:1                                | 5:1                                | 5:1                                | 5:1                                   |
| Package Type                  | Portable                           | Cover-mounted                      | Cover-mounted                      | Bung-mounted                       | Bung-mounted                       | Universal                             |
| Maximum Container Size        | 16 gal (60 l)                      | 16 gal (60 l)                      | 55 gal (200 l)                     | 55 gal (200 l)                     | 275 gal (1,040 l)                  | Universal                             |
| Pump                          | 203872                             | 203872                             | 203857                             | 204254                             | 222087                             | 203876                                |
| Meter Type                    | Manual                             | -                                  | -                                  | -                                  | -                                  | -                                     |
| Meter Part Number             | 25M413                             | -                                  | -                                  | -                                  | -                                  | -                                     |
| Meter Extension               | Rigid                              | -                                  | -                                  | -                                  | -                                  | -                                     |
| Dispense/<br>Hose Fitting Kit | 237075                             | 222063                             | 222063                             | 222063                             | 222063                             | 222062                                |
| Fluid Hose Size               | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) | 1/2 in x 1.5 ft<br>(12.7 mm x 0.46 m) |
| Air Hose Size                 | -                                  | 3/8 in x 6 ft<br>(9.5 mm x 1.8 m)  | 3/8 in x 6 ft<br>(9.5 mm x 1.8 m)  | 3/8 in x 6 ft<br>(9.5 mm x 1.8 m)  | 3/8 in x 6 ft<br>(9.5 mm x 1.8 m)  | 3/8 in x 1.5 ft<br>(9.5 mm x 0.46 m)  |
| Air Regulator                 | 224512                             | 224512                             | 224512                             | -                                  | -                                  | -                                     |
| Cover                         | 24R350                             | 24R350                             | 200326                             | -                                  | -                                  | -                                     |
| Caster Base                   | 203622                             | -                                  | -                                  | -                                  | -                                  | -                                     |
| Bung Adapter                  | -                                  | -                                  | -                                  | 222308                             | 222308                             | -                                     |
| Instruction Manual            | 307884                             | 307883                             | 307883                             | 307883                             | 307883                             | 306520                                |

\*Order low-level cut-off (203688) (1-1/2 in NPT) separately for metered dispense systems. Use 3/8 in (9.5 mm) installation kit (224512) as required.

\*\*Order low-level cut-off (203688) (1-1/2 in NPT) separately for metered dispense systems. Use 3/8 in (9.5 mm) air regulator (109075) as required; must be ordered separately.



## ORDERING OPTIONS

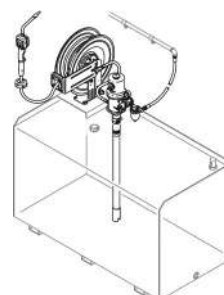
### BULK OIL DISPENSING PACKAGES



|                                       |                |                |                |                |
|---------------------------------------|----------------|----------------|----------------|----------------|
| Package Number                        | 241633*        | 224541*        | 244038*        | 224534*        |
| Ratio                                 | 5:1            | 5:1            | 5:1            | 5:1            |
| Dispensing Location                   | -              | -              | -              | Bench/Top Tank |
| Pump                                  | 203876         | 203876         | 203876         | 203876         |
| Regulator/Gauge                       | 109075         | 109075         | 109075         | 109075         |
| Nipple                                | 156849         | 156849         | 156849         | 156849         |
| Bung Adapter                          | 222308         | 222308         | 222308         | 222308         |
| Reel Size                             | 1/2 in x 35 ft | 1/2 in x 50 ft | 1/2 in x 50 ft | 1/2 in x 50 ft |
| Reel Type                             | SDX            | SDX            | SDX            | SDX            |
| Hose Reel                             | SDM33B         | SDM65B         | SDM65B         | SDM65B         |
| Type of Meter                         | SD             | SD             | SD             | SD             |
| Manual/Preset                         | Manual         | Manual         | Preset         | Manual         |
| Meter                                 | 25M404         | 25M404         | 26C384         | 25M404         |
| 90° Swivel                            | -              | -              | -              | 157416         |
| Air Filter                            | -              | -              | -              | 106148         |
| Drain Valve                           | -              | -              | -              | 127711         |
| Hose                                  | -              | 220598         | 220598         | 222063         |
| Thermal Relief Valve                  | -              | -              | -              | 237893         |
| Hose Reel Inlet Kit<br>(Not Included) | 218549         | 218549         | 218549         | 218549         |

\*Order (218549) (1/2 in x 24 in) hose reel inlet kit separately.

Package 224534 installed on a bulk tank  
(not included in package).



# FIRE-BALL 300 5:1 OIL PUMP PACKAGES

## ORDERING OPTIONS

### LUBE TRUCK PACKAGES



|                               |                                    |                                    |                                    |
|-------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Package Number                | 222086*                            | 206655*                            | 204264*                            |
| Ratio                         | 5:1                                | 5:1                                | 5:1                                |
| Package Type                  | Lube truck                         | Lube truck                         | Lube truck                         |
| Maximum Container Size        | 16 gal (60l) open-head             | 55 gal (200l) closed-head          | 55 gal (200l) closed-head          |
| Pump                          | 203872                             | 203857                             | 204254                             |
| Dispense/<br>Hose Fitting Kit | 222063                             | 222063                             | 222063                             |
| Fluid Hose Size               | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) | 1/2 in x 6 ft<br>(12.7 mm x 1.8 m) |
| Cover                         | 222060                             | 207367                             | -                                  |
| Pump Clamp                    | -                                  | -                                  | 204095                             |
| Hold Down Kit                 | 222061                             | 207361                             | 207361                             |
| Bung Adapter                  | -                                  | -                                  | 224579                             |
| Instruction Manual            | 307883                             | 307883                             | 307883                             |

\*Order 3/8 in (9.5 mm) air regulator and gauge (109075) separately.



# FIRE-BALL 425 OIL PUMPS

## THE PUMP OF CHOICE FOR YOUR MOST DEMANDING HIGH-VOLUME APPLICATIONS

The Fire-Ball 425 features a 4.25 inch air motor to supply the power you need for long pipe runs and higher-volume dispensing. An ideal choice for applications where multiple dispenses happen at the same time.



### Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

### Fewer Repairs

Fewer moving parts in the air motor assembly means less downtime and low repair cost.

### Extended Seal Life

In-line pump design aligns the air motor piston and fluid piston rods to maximize seal life.

### Superior Sealing

Non-metallic poppet valves offer positive sealing performance, even with contaminated "dirty" air environments for long life without repair.

### Corrosion-Resistant

Corrosion-resistant design utilizes liquid salt nitriding, nickel plating, stainless steel, aluminum and chrome on key components for longer life.

### TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

### TYPICAL FLUIDS

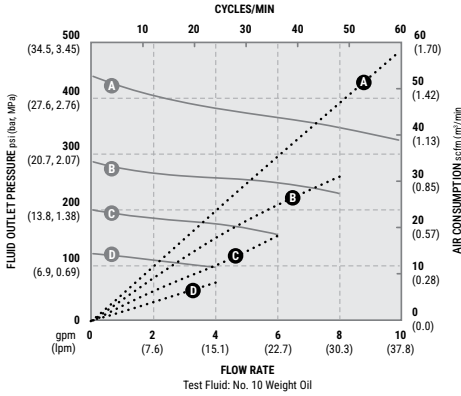
- Petroleum- and synthetic-based oils (motor, gear and ATF)

OIL PUMPS AND PACKAGES

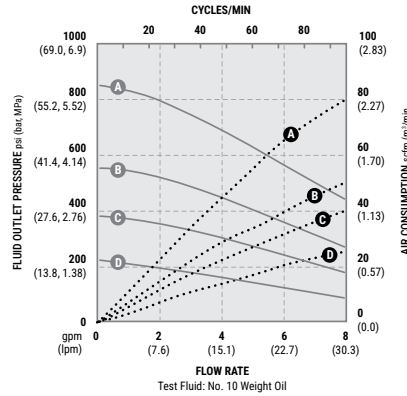
# FIRE-BALL 425 OIL PUMP PACKAGES

## PUMP PERFORMANCE

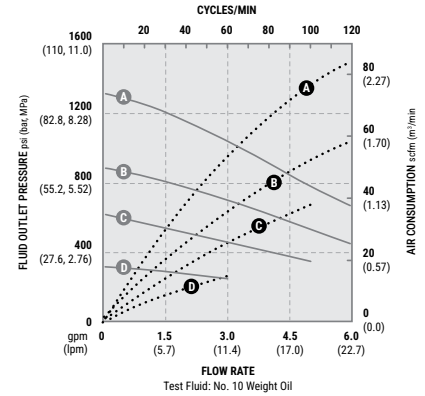
### FIRE-BALL 425 3:1 PUMPS



### FIRE-BALL 425 6:1 PUMPS



### FIRE-BALL 425 10:1 PUMPS



**AIR PRESSURE**

- (A) = at 150 psi (10.3 bar, 1.03 MPa)
- (B) = at 100 psi (6.9 bar, 0.69 MPa)
- (C) = at 70 psi (4.8 bar, 0.48 MPa)
- (D) = at 40 psi (2.8 bar, 0.28 MPa)

**LEGEND**

- Air Consumption ..... (dotted line)
- Fluid Pressure ——— (solid line)

## TECHNICAL SPECIFICATIONS

| Fluid Pressure Ratio                            | 3:1                                                         | 6:1                                                        | 10:1                                                       |
|-------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| Air Motor Effective Diameter                    | 4.25 in (107.9 mm)                                          |                                                            |                                                            |
| Maximum Fluid Working Pressure                  | 540 psi (37 bar / 3.7 MPa)                                  | 1,100 psi (76 bar / 7.6 MPa)                               | 1,800 psi (124 bar / 12.4 MPa)                             |
| Approximate Free Flow Rate @ 100 psi            | 28.7 gal/min (109 liters/min)                               | 17.1 gal/min (65 liters/min)                               | 11.7 gal/min (44 liters/min)                               |
| Output per Cycle                                | 631 cc                                                      | 261 cc                                                     | 189 cc                                                     |
| Approximate Air Use and Flow @ 100 psi (80 cpm) | 43 scfm @ 13.4 gpm<br>(1.23 m <sup>3</sup> /min @ 50.6 lpm) | 44 scfm @ 6.7 gpm<br>(1.25 m <sup>3</sup> /min @ 25.4 lpm) | 45 scfm @ 4.0 gpm<br>(1.27 m <sup>3</sup> /min @ 15.2 lpm) |
| Air Inlet                                       | 1/2 in NPT(F)                                               |                                                            |                                                            |
| Fluid Inlet                                     | 1-1/2 in NPT(F)                                             |                                                            |                                                            |
| Fluid Outlet                                    | 3/4 in NPT(F)                                               |                                                            |                                                            |
| Air Operation Range                             | 40 psi to 180 psi (2.8 bar to 12 bar)                       |                                                            |                                                            |
| Maximum Recommended Pump Speed                  | 66 cpm                                                      | 78 cpm                                                     | 60 cpm                                                     |
| Cycles per Gallon (Liter)                       | 6 (1.6)                                                     | 14.5 (3.8)                                                 | 20 (5.3)                                                   |
| Wetted Parts                                    | Steel, polyurethane, aluminum, nitrile                      |                                                            |                                                            |
| Sound Pressure Level                            | 82 dB(A)                                                    | 79.5 dB(A)                                                 | 78 dB(A)                                                   |
| Approximate Weight                              | 46 lb (20.9 kg)                                             | 35 lb (15.9 kg)                                            | 29 lb (13.2 kg)                                            |
| Instruction Manual                              | 308485                                                      | 308608                                                     | 308655                                                     |



## ORDERING OPTIONS

### FIRE-BALL 425 PUMPS

| Part Number | Description                                           |
|-------------|-------------------------------------------------------|
| 237526      | 3:1 Universal oil pump                                |
| 238108      | 6:1 Universal oil pump                                |
| 205626      | 10:1 Universal oil pump                               |
| 222065      | 10:1 Oil pump, 55 gal (400 lb) drum size, cover mount |
| 222095      | 10:1 Oil pump, 55 gal (400 lb) drum size, bung mount  |

### OIL PUMP PACKAGES



| Package Number                      | 244846          | 244628*         | 244847          | 225782**       | 225786**       | 225853**         |
|-------------------------------------|-----------------|-----------------|-----------------|----------------|----------------|------------------|
| Package Type                        | Wall-mounted    | Wall-mounted    | Wall-mounted    | Cover-mounted  | Bung-mounted   | Universal supply |
| Maximum Container Size              | Universal       | Universal       | Universal       | 55 gal (200 l) | 55 gal (200 l) | Universal        |
| Ratio                               | 3:1             | 6:1             | 10:1            | 10:1           | 10:1           | 10:1             |
| Pump                                | 237526          | 238108          | 205626          | 222065         | 222095         | 205626           |
| Hose/Fitting Kit                    | 222068          | 222068          | 222068          | 222066         | 222066         | 222068           |
| Fluid Hose Size                     | 3/4 in x 1.5 ft | 3/4 in x 1.5 ft | 3/4 in x 1.5 ft | 3/4 in x 6 ft  | 3/4 in x 6 ft  | 3/4 in x 1.5 ft  |
| Air Hose Size                       | 1/2 in x 1.5 ft | 1/2 in x 1.5 ft | 1/2 in x 1.5 ft | 1/2 in x 6 ft  | 1/2 in x 6 ft  | 1/2 in x 1.5 ft  |
| Cover                               | -               | -               | -               | 200326         | -              | -                |
| Filter, Regulator, Lubricator [FRL] | 217072          | 217072          | 217072          | -              | -              | -                |
| Air Shutoff Valve                   | 110225          | 110225          | 110225          | -              | -              | -                |
| Fluid Shutoff Valve                 | 108537          | 108537          | 108537          | -              | -              | -                |
| Wall Mount Bracket                  | 238245          | 238245          | 238245          | -              | -              | -                |
| Instruction Manual                  | 309351          | 309351          | 309351          | 307883         | 307883         | 306520           |

\*Order low-level cut-off (203688) (1-1/2 in NPT) separately for metered dispense systems.

\*\*Order low-level cut-off (203688) (1-1/2 in NPT) separately for metered dispense. Use 1/2 in (12.7 mm) air regulator (104266) and air pressure gauge (100960) as required; must be ordered separately.

# FIRE-BALL 425 OIL PUMP PACKAGES

## ORDERING OPTIONS

### LUBE TRUCK PACKAGES



|                               |                                 |                                 |
|-------------------------------|---------------------------------|---------------------------------|
| Package Number                | 206656*                         | 222067*                         |
| Ratio                         | 10:1                            | 10:1                            |
| Package Type                  | Lube truck                      | Lube truck                      |
| Maximum Container Size        | 55 gal (200 l) closed-head      | 55 gal (200 l) closed-head      |
| Pump                          | 222065                          | 222095                          |
| Dispense/<br>Hose Fitting Kit | 222066                          | 222066                          |
| Fluid Hose Size               | 1/2 in x 6 ft (12.7 mm x 1.8 m) | 1/2 in x 6 ft (12.7 mm x 1.8 m) |
| Offset Cover                  | 207367                          | -                               |
| Pump Clamp                    | -                               | 204095                          |
| Hold Down Kit                 | 207361                          | 207361                          |
| Bung Adapter                  | -                               | 224579                          |
| Instruction Manual            | 307883                          | 307883                          |

\*Order 1/2 in (12.7 mm) air regulator (104266) and gauge (100960) separately.



# OIL PUMP ACCESSORIES GUIDE

Use the quick-reference guide below to determine the part and accessory options available for our most popular oil pumps.



## OIL PUMP MOUNTING AND ACCESSORY GUIDE

| Pump                                    | Fast-Ball 100                | Mini Fire-Ball 225 3:1       | Fire-Ball 300 5:1            | Fire-Ball 425 3:1           | Fire-Ball 425 6:1           | Fire-Ball 425 10:1           |
|-----------------------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------------|
| Bung Adapter                            | 222308                       | 222308                       | 222308                       | -                           | -                           | 222308                       |
| Connection Hose Kit                     | 222118<br>(18 in / 4537 cm)  | 222062<br>(18 in / 45.7 cm)  | 222062<br>(18 in / 45.7 cm)  | 238246<br>(24 in / 60.9 cm) | 238246<br>(24 in / 60.9 cm) | 222068<br>(18 in / 4537 cm)  |
|                                         | 222119<br>(72 in / 182.8 cm) | 222063<br>(72 in / 182.8 cm) | 222063<br>(72 in / 182.8 cm) |                             |                             | 222066<br>(72 in / 182.8 cm) |
|                                         |                              |                              |                              |                             |                             |                              |
| Wall Mounting Bracket                   | 203987                       | 203987                       | 203987                       | 238245                      | 238245                      | 203987                       |
| Thermal Relief Kit*                     | -                            | 235998                       | 237893                       | 237601                      | 240429                      | 240429                       |
| Air Regulator and Gauge                 | 110147                       | 109075                       | 109075                       | 104266 / 100960             | 104266 / 100961             | 104266 / 100962              |
| Air Filter                              | 110146                       | 106148                       | 106148                       | 106149                      | 106149                      | 106149                       |
| Air Lubricator                          | 110148                       | 214847                       | 214847                       | 214848                      | 214848                      | 214848                       |
| Filter, Regulator, Lubricator and Gauge | 110149                       | 110150                       | 110150                       | 217072                      | 217072                      | 217072                       |
| Airline Shutoff Valve                   | 110223                       | 110224                       | 110224                       | 110225                      | 110225                      | 110225                       |
| Fluid Shutoff Valve                     | 108537                       | 108458                       | 108458                       | 108537                      | 108537                      | 108537                       |
| Fluid Outlet Filter                     | 240417                       | 240417                       | 240417                       | 101078                      | -                           | -                            |
| Low-Level Cutoff                        | 203688                       | 203688                       | 203688                       | 203688                      | 203688                      | 203688                       |
| Suction Hose Kit                        | 236054                       | 236054                       | 236054                       | -                           | -                           | -                            |


\*Required

OIL PUMPS AND PACKAGES



# OIL PUMP ACCESSORIES

## ORDERING OPTIONS


### BLEED-TYPE AIR SHUT-OFF VALVES

|  | Part Number | Description |
|-----------------------------------------------------------------------------------|-------------|-------------|
|                                                                                   | 110223      | 1/4 in NPT  |
|                                                                                   | 110224      | 3/8 in NPT  |
|                                                                                   | 110225      | 1/2 in NPT  |
|                                                                                   | 110226      | 3/4 in NPT  |


### BUNG ADAPTERS

|                                                                                     | Part Number | Description                                                                                   | Compatible Pumps                                                                   | Includes           |                |                    |                    |             |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------|----------------|--------------------|--------------------|-------------|
|                                                                                     |             |                                                                                               |                                                                                    | Double Tap bushing | Bushing Sleeve | 1 ft x 3/8 in Hose | 90° 3/8 in Adapter | Thumb Screw |
|   | 222308      | Allows direct mounting of all universal length and extended pumps to standard 2 NPT drum bung | Fast-Ball 100<br>Mini Fire-Ball 225 3:1<br>Fire-Ball 300 5:1<br>Fire-Ball 425 10:1 | -                  | -              | -                  | -                  | -           |
|                                                                                     | 187754      | Acetal bung adapter                                                                           | All pumps                                                                          | -                  | -              | -                  | -                  | 100220      |
|                                                                                     | 176684      | Bung adapter for suction kit 203992                                                           | -                                                                                  | -                  | -              | -                  | -                  | 100220      |
|  | 238125      | For mounting universal pumps to tanks                                                         | Mini Fire-Ball 225 3:1<br>Fire-Ball 300 5:1<br>Fire-Ball 425 10:1                  | 191075             | 172405         | 238370             | 155494             | -           |


### CARTS

|  | Part Number | Compatible Container Size                      |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------|
|                                                                                     | 203650      | 5 gal (20 l)<br>10 gal (40 l)<br>16 gal (60 l) |
|                                                                                     | 222243      | 120 lb (55 kg)                                 |
|                                                                                     | 111470      | 55 gal (200 l)                                 |

### CLAMPS

|  | Part Number | Description                                                | Compatible Pumps                                                                                        |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                                                                                     | 203156      | Used to hold pump securely to the edge of an open top drum | Fast-Ball 100<br>Mini Fire-Ball 225 3:1<br>Fire-Ball 300 5:1<br>Fire-Ball 425 6:1<br>Fire-Ball 425 10:1 |


### DISPENSE KITS FOR MINI FIRE-BALL AND FIRE-BALL 300 PUMPS

|  | Part Number | Description                                                 | Hose Length | Includes   |                           |        |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------|-------------|------------|---------------------------|--------|
|                                                                                     | 237075      | Use with portable lubricators powered by Fire-Ball 300 Pump | 6 ft        | Fluid Hose | Manual SD Gear Lube Valve | Manual |
|                                                                                     |             |                                                             |             | 220591     | 255349                    | 307884 |




## ORDERING OPTIONS


### DOWNTUBE – UNIVERSAL FIREBALL OIL PUMPS

|  | Part Number | Description                                                                                  |
|-----------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------|
|                                                                                   | 15C502      | 1-1/2 in ID tube marked for standard container lengths from 20 in to 41 in (.51 m to 1.04 m) |


### DRUM COVERS

|  | Part Number | Container Size                                  | Compatible Pumps                                                                             |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------|----------------------------------------------------------------------------------------------|
|                                                                                   | 200326      | 55 gal (200 l)                                  | Mini Fire-Ball 225 3:1<br>Fire-Ball 300 5:1<br>Fire-Ball 425 10:1                            |
|                                                                                   | 24R350      | 16 gal (60 l)                                   | Fast-Ball 100<br>Mini Fire-Ball 225 3:1<br>Fire-Ball 300 5:1<br>Fire-Ball 425 3:1, 6:1, 10:1 |
|                                                                                   | 222058      | 5 gal (20 l)                                    | Fast-Ball 100<br>Mini Fire-Ball 225 3:1<br>Fire-Ball 300 5:1, 15:1                           |
|                                                                                   | 160754      | 55 gal (200 l)<br>16 gal (60 l)<br>5 gal (20 l) | Bung-mounted pumps                                                                           |


### DRUM ELEVATOR

|  | Part Number | Description                                                  | Includes      |               |                 |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------|---------------|---------------|-----------------|
|                                                                                     |             |                                                              | Cover Support | Drum Elevator | Air Control Kit |
|                                                                                     | 241663      | Air-powered elevator to speed up 55 gal (200 l) drum changes | 207562        | 204385        | 207561          |

### FLUID SHUT-OFF VALVES

|  | Part Number | Description |
|-------------------------------------------------------------------------------------|-------------|-------------|
|                                                                                     | 108458      | 1/2 in NPT  |
|                                                                                     | 108537      | 3/4 in NPT  |
|                                                                                     | 110314      | 1 in NPT    |


### FLUID T-STRAINERS

|  | Part Number | Description                                                                                  |
|-------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------|
|                                                                                     | 240417      | 1/2 in inlet, 60 mesh strainer, which prevents foreign material from entering dispense lines |
|                                                                                     | 240418      | 3/8 in inlet, 60 mesh strainer, which prevents foreign material from entering dispense lines |
|                                                                                     | 238433      | 40 mesh replacement element, 3 count                                                         |
|                                                                                     | 238434      | 40 mesh replacement element, 25 count                                                        |
|                                                                                     | 238431      | 60 mesh (standard) replacement element, 3 count                                              |
|                                                                                     | 238432      | 60 mesh (standard) replacement element, 25 count                                             |
|                                                                                     | 238429      | 100 mesh replacement element, 3 count                                                        |



# OIL PUMP ACCESSORIES

## ORDERING OPTIONS


### FLUID Y-STRAINERS

|  | Part Number | Description                                                                       |
|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------|
|                                                                                   | 110877      | 1/2 in NPT inlet/outlet strainer, which filters material before entering the pump |
|                                                                                   | 110906      | 1/2 in NPT inlet/outlet strainer, replacement screen                              |
|                                                                                   | 101078      | 3/4 in NPT inlet/outlet strainer, which filters material before entering the pump |
|                                                                                   | 129699      | 3/4 in NPT inlet/outlet strainer, replacement screen                              |
|                                                                                   | 110878      | 1 in NPT inlet/outlet strainer, which filters material before entering the pump   |
|                                                                                   | 110907      | 1 in NPT inlet/outlet strainer replacement screen                                 |

### HOSE AND FITTING KITS FOR MINI FIRE-BALL 225 AND FIRE-BALL 300 5:1

|    | Part Number | Description                                 | Connection Length | Includes |                       |            |                         |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------|-------------------|----------|-----------------------|------------|-------------------------|
|                                                                                     |             |                                             |                   | Air Hose | Air Hose Swivel Elbow | Fluid Hose | Fluid Hose Swivel Elbow |
|                                                                                     | 222062      | For connecting wall-mounted pumps to piping | 18 in             | 204560   | 155494                | 220598     | 155470                  |
|  | 222063      | Use with drum-mounted pumps                 | 6 ft              | 203320   | 155494                | 220591     | 155470                  |


### HOSE AND FITTING KITS FOR FIRE-BALL 425 PUMPS

|  | Part Number | Description                                                           | Hose Length | Package Includes |                       |            |                         |        |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------|-------------|------------------|-----------------------|------------|-------------------------|--------|
|                                                                                     |             |                                                                       |             | Air Hose         | Air Hose Swivel Elbow | Fluid Hose | Fluid Hose Swivel Elbow | Manual |
|                                                                                     | 222068      | For connecting wall-mounted Fire-Ball 425 10:1 pump to piping         | 15 in       | 218093           | 155470                | 109108     | 160327                  | 306520 |
|                                                                                     | 238246      | For connecting wall-mounted Fire-Ball 425 3:1 and 6:1 pumps to piping | 24 in       | 218903           | 155470                | 238247     | 160327                  | 306520 |
|                                                                                     | 222066      | For use with drum-mounted Fire-Ball 425 10:1 pump                     | 6 ft        | 205418           | 155470                | 109105     | 160327                  | 307883 |





## ORDERING OPTIONS

### LOW-LEVEL CUTOFFS FOR FAST-BALL AND FIRE-BALL PUMPS


|  | Part Number | Description                                                                                         |
|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------|
|                                                                                   | 203688      | 1-1/2 in NPT cutoff, which prevents air from entering pump when fluid supply from pump is exhausted |

### PORTABLE BASES


|   | Part Number | Description | Compatible Container Size                      |
|------------------------------------------------------------------------------------|-------------|-------------|------------------------------------------------|
|                                                                                    | 205054      | Band dolly  | 5 gal (20 l)                                   |
|  | 204144      | Band dolly  | 10 gal (40 l)<br>16 gal (60 l)                 |
|                                                                                    | 203622      | Caster base | 5 gal (20 l)<br>10 gal (40 l)<br>16 gal (60 l) |

### RUNAWAY VALVE


Prevents pump damage by automatically closing the air line to stop the pump when a runaway pump condition occurs due to an empty barrel or hose leak.

|  | Part Number | Inlet           |
|-------------------------------------------------------------------------------------|-------------|-----------------|
|                                                                                     | 224040      | 3/4 in NPT(fbe) |

### SEALED BUNG ADAPTERS

|  | Part Number | Fire-Ball Length | Adapter Inside Diameter | Compatible Pumps                  |
|-------------------------------------------------------------------------------------|-------------|------------------|-------------------------|-----------------------------------|
|                                                                                     | 204076      | Full length      | 2.140 in                | Mini Fire-Ball 225 3:1            |
|                                                                                     | 224579      | Universal length | 2.159 in                | All except Mini Fire-Ball 225 3:1 |


### SUCTION KITS

|  | Part Number | Description                                                                                | Includes     |              |           |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------|--------------|--------------|-----------|
|                                                                                     |             |                                                                                            | Bung Adapter | Bushing Pipe | 6 ft Hose |
|                                                                                     | 236054      | Allows use of Fast-Ball, Mini-Fire-Ball and Fire-Ball universal pumps to work with barrels | 188845       | 101496       | 109105    |


# OIL PUMP ACCESSORIES

## ORDERING OPTIONS


### SUCTION TUBES

|  | Part Number | Container Size    | Type of Mount | Compatible Pumps                                                                   | Includes       |           |             |
|-----------------------------------------------------------------------------------|-------------|-------------------|---------------|------------------------------------------------------------------------------------|----------------|-----------|-------------|
|                                                                                   |             |                   |               |                                                                                    | Extension Size | Extension | Foot Spacer |
|                                                                                   | 238592      | 16 gal (60 l)     | Cover-mounted | Fast-Ball 100<br>Mini Fire-Ball 225 3:1<br>Fire-Ball 300 5:1<br>Fire-Ball 425 10:1 | 14-1/2 in      | 191126    | 110127      |
|                                                                                   | 238593      | 55 gal (200 l)    | Cover-mounted |                                                                                    | 21-3/4 in      | 191128    | 110127      |
|                                                                                   | 238595      | 55 gal (200 l)    | Bung-mounted  |                                                                                    | 26 in          | 191130    | 110127      |
|                                                                                   | 238596      | 275 gal (1,100 l) | Bung-mounted  |                                                                                    | 36 in          | 191131    | 110127      |


### THERMAL RELIEF VALVE KITS

|  | Part Number | Pressure Rating     | Compatible Pumps                        | Includes |              |        |        |
|------------------------------------------------------------------------------------|-------------|---------------------|-----------------------------------------|----------|--------------|--------|--------|
|                                                                                    |             |                     |                                         | Valve    | Bung Adapter | Swivel | Hose   |
|                                                                                    | 235998      | 600 psi (41 bar)    | Mini Fire-Ball 225 3:1                  | 112174   | 191075       | 155494 | 238370 |
|                                                                                    | 237893      | 900 psi (62 bar)    | Fire-Ball 300 5:1                       | 102527   | 191075       | 155494 | 238370 |
|                                                                                    | 248296      | 900 psi (62 bar)    | Fire-Ball 300 5:1                       | 102527   | -            | -      | 109163 |
|                                                                                    | 237601      | 600 psi (41 bar)    | Fire-Ball 425 3:1                       | 112174   | 191075       | 155494 | 238370 |
|                                                                                    | 240429      | 1,600 psi (110 bar) | Fire-Ball 425 6:1<br>Fire-Ball 425 10:1 | 102527   | 191075       | 155494 | 238370 |
|                                                                                    | 248324      | 1,600 psi (110 bar) | Fire-Ball 425 6:1<br>Fire-Ball 425 10:1 | 113053   | -            | -      | 109163 |

### TOOLS FOR WORKING ON FIRE-BALL AIR MOTORS

|  | Part Number | Description   |
|-------------------------------------------------------------------------------------|-------------|---------------|
|                                                                                     | 207579      | Padded pliers |
|                                                                                     | 171818      | Poppet gauge  |
|                                                                                     | 168085      | Insert tool   |

### WALL-MOUNTING BRACKETS

|  | Part Number | Description                                 | Compatible Pumps                                                                   |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                     | 203987      | Clamps onto universal pump tube             | Fast-Ball 100<br>Mini Fire-Ball 225 3:1<br>Fire-Ball 300 5:1<br>Fire-Ball 425 10:1 |
|                                                                                     | 238245      | Mounts directly to pump flange              | Fire-Ball 425 3:1, 6:1, 10:1                                                       |
|                                                                                     | 236778      | Provides mounting to wall surface by flange | Fire-Ball 425 3:1                                                                  |



# NXT™ HIGH-FLO® PUMPS

## MOVE LARGE AMOUNTS OF OIL FAST

Tested to outperform and outlast all other pumps on the market – with its long-life design and intuitive, easy-to-use controls – the NXT High-Flo pump is the best value for the money. Fewer parts, faster repairs and long-lasting durability.



### NXT Air Motor

Modular design for easier maintenance with rugged body armor that won't rust or dent.

### Modular Air Valves

Easy-to-repair valve eliminates stalling and contains de-icing controls.

### Piston Valve with Floating Piston Seal

For maximum pressure balance over a range of material viscosities.

### TYPICAL APPLICATIONS

- Fleet service facilities
- In-plant
- Mining

### TYPICAL FLUIDS

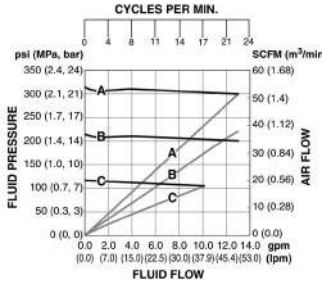
- Petroleum- and synthetic-based oils (motor, gear and ATF)

OIL PUMPS AND PACKAGES

# NXT HIGH-FLO PUMPS

## PUMP PERFORMANCE

### NXT 3.5:1 HIGH-FLO PUMPS

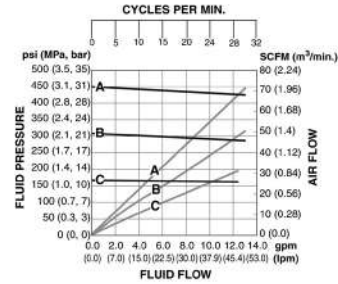


Inlet Air Pressures:

- A** = 100 psi (6.9 bar)
- B** = 70 psi (4.8 bar)
- C** = 40 psi (2.8 bar)

TEST FLUID:  
No. 10 Weight Oil

### NXT 4.5:1 HIGH-FLO PUMPS



Inlet Air Pressures:

- A** = 100 psi (6.9 bar)
- B** = 70 psi (4.8 bar)
- C** = 40 psi (2.8 bar)

TEST FLUID:  
No. 10 Weight Oil

## TECHNICAL SPECIFICATIONS

|                                |                                                                           |                                                                           |
|--------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Fluid Pressure Ratio           | 3.5:1                                                                     | 4.5:1                                                                     |
| Air Motor Effective Diameter   | 7.5 in (191 mm)                                                           | 7.5 in (191 mm)                                                           |
| Maximum Fluid Working Pressure | 350 psi (24 bar / 2.4 MPa)                                                | 450 psi (31 bar / 3.1 MPa)                                                |
| Output per Cycle               | 2,000 cc                                                                  | 1,500 cc                                                                  |
| Air Inlet                      | 3/4 in NPT(F)                                                             | 3/4 in NPT(F)                                                             |
| Fluid Inlet                    | 1-1/2 in NPT(F)                                                           | 1-1/2 in NPT(F)                                                           |
| Fluid Outlet                   | 1 in NPT(F)                                                               | 1 in NPT(F)                                                               |
| Air Operation Range            | 20 psi to 100 psi (1.4 bar to 7 bar)                                      | 20 psi to 100 psi (1.4 bar to 7 bar)                                      |
| Maximum Recommended Pump Speed | 60 cpm                                                                    | 60 cpm                                                                    |
| Cycles per Gallon (Liter)      | 1.9 (0.5)                                                                 | 2.5 (0.67)                                                                |
| Wetted Parts                   | Stainless steel, PTFE, leather, UHMWPE, carbon steel                      | Stainless steel, PTFE, leather, UHMWPE, carbon steel                      |
| Sound Pressure Level           | 77 dB(A)                                                                  | 77 dB(A)                                                                  |
| Sound Power Level              | 87 dB(A)                                                                  | 87 dB(A)                                                                  |
| Approximate Weight             | 99 lb (44.9 kg)                                                           | 99 lb (44.9 kg)                                                           |
| Instruction Manual             | System – 312862<br>Pump – 311211<br>Pump Lower – 311690<br>Motor – 311238 | System – 312862<br>Pump – 311211<br>Pump Lower – 311690<br>Motor – 311238 |



## ORDERING OPTIONS

### OIL PUMP PACKAGES

|                              |                    |                   |
|------------------------------|--------------------|-------------------|
| Package Number               | 24D602             | 24D603            |
| Ratio                        | 3.5:1              | 4.5:1             |
| Mounting                     | 255143 (Wall)      | 255143 (Wall)     |
| Pump with Thermal Relief Kit | 24D596             | 24D597            |
| Output per Cycle             | 2,000 cc           | 1,500 cc          |
| Output at 60 CPM             | 31.7 gpm (120 lpm) | 23.8 gpm (90 lpm) |
| Motor Size                   | NXT 3400           | NXT 3400          |
| Maximum Fluid Pressure       | 350 psi (24.1 bar) | 450 psi (31 bar)  |
| Maximum Air Input Pressure   | 100 psi (6.9 bar)  | 100 psi (6.9 bar) |
| System Manual                | 312862             | 312862            |
| Pump Manual                  | 311211             | 311211            |
| Pump Lower Manual            | 311690             | 311690            |
| Motor Manual                 | 311238             | 311238            |
| Pump Inlet Size              | 1-1/2 in NPT       | 1-1/2 in NPT      |
| Pump Outlet Size             | 1 in NPT           | 1 in NPT          |
| 4 ft x 3/4 in Air Hose       | 15B554             | 15B554            |
| 6 ft x 1 in Fluid Hose       | 115042             | 115042            |
| Instruction Manual           | 309351             | 309351            |

### ACCESSORIES

#### DATATRAK™ CONVERSION KIT

For converting NXT air motors to include the DataTrak module with runaway protection. Refer to manual 311486 for more details.

| Part Number | Description                        |
|-------------|------------------------------------|
| NXT306      | Conversion kit for NXT3400 motors. |

# NXT™ DURA-FLO® PUMPS

## MOVE LARGE AMOUNTS OF OIL FAST

Tested to outperform and outlast all other pumps on the market – with its long-life design and intuitive, easy-to-use controls – the NXT Dura-Flo pump is the best value for the money. Fewer parts, faster repairs and long-lasting durability.



### Optional DataTrak™ Control

Intuitive, easy-to-use DataTrak control gives you pump diagnostics, material usage tracking and pump runaway protection.

### NXT Air Motor

Modular design for easier maintenance with rugged body armor that won't rust or dent.

### Modular Air Valves

Easy-to-repair valve eliminates stalling and contains de-icing controls.

### Integrated Air Controls

- Easy-turn, lockable regulator is front-mounted for easy access.
- Compact and modular with built-in filtration.

### Piston Valve with Floating Piston Seal

For maximum pressure balance over a range of material viscosities.

## TYPICAL APPLICATIONS

- Fleet service facilities
- In-plant
- Mining

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)



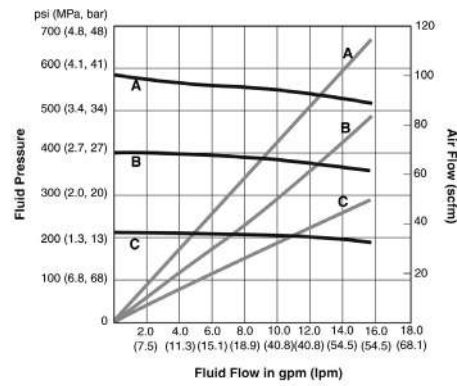
# PUMP PERFORMANCE

Inlet Pressures:

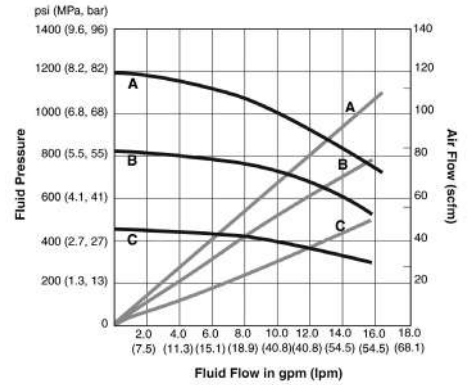
- A** = 100 psi (6.9 bar) air pressure or 1500 (103 bar) hydraulic oil pressure
- B** = 70 psi (4.8 bar) air pressure or 1050 (72 bar) hydraulic oil pressure
- C** = 40 psi (2.8 bar) air pressure or 600 (41 bar) hydraulic oil pressure

TEST FLUID: No. 10 Weight Oil

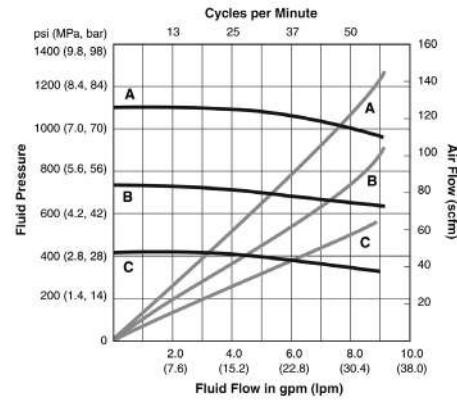
## NXT DURA-FLO 6:1 PUMPS



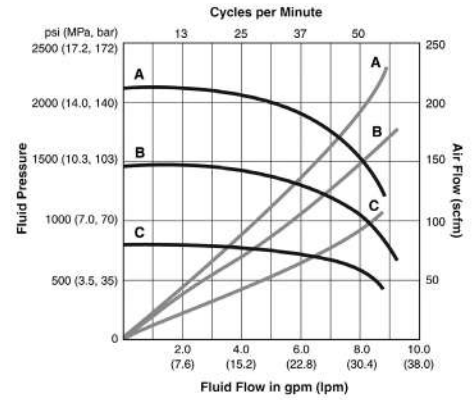
## NXT DURA-FLO 10:1 PUMPS



## NXT DURA-FLO 12:1 PUMPS



## NXT DURA-FLO 23:1 PUMPS



# NXT™ DURA-FLO® PUMPS

## TECHNICAL SPECIFICATIONS

|                                |                                                                                                         |                                                                                                         |                                                                                   |                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Fluid Pressure Ratio           | 6:1                                                                                                     | 10:1                                                                                                    | 12:1                                                                              | 23:1                                                                              |
| Air Motor Effective Diameter   | 7.5 in (191 mm)                                                                                         | 10.375 in (264 mm)                                                                                      | 7.5 in (191 mm)                                                                   | 10.375 in (264 mm)                                                                |
| Maximum Fluid Working Pressure | 620 psi<br>(43 bar / 4.3 MPa)                                                                           | 1,180 psi<br>(81 bar / 8.1 MPa)                                                                         | 1,190 psi<br>(82 bar / 8.2 MPa)                                                   | 1,725 psi<br>(119 bar / 11.9 MPa)                                                 |
| Output per Cycle               | 1,000 cc                                                                                                | 1,000 cc                                                                                                | 580 cc                                                                            | 580 cc                                                                            |
| Air Inlet                      | 3/4 in NPT(F)                                                                                           | 3/4 in NPT(F)                                                                                           | 3/4 in NPT(F)                                                                     | 3/4 in NPT(F)                                                                     |
| Fluid Inlet                    | 2 in NPT(F)                                                                                             | 2 in NPT(F)                                                                                             | 2 in NPT(F)                                                                       | 2 in NPT(F)                                                                       |
| Fluid Outlet                   | 1-1/2 in NPT(F)                                                                                         | 1-1/2 in NPT(F)                                                                                         | 1-1/2 in NPT(F)                                                                   | 1-1/2 in NPT(F)                                                                   |
| Air Operation Range            | 20 psi to 100 psi<br>(1.4 bar to 7 bar)                                                                 | 20 psi to 100 psi<br>(1.4 bar to 7 bar)                                                                 | 20 psi to 100 psi<br>(1.4 bar to 7 bar)                                           | 20 psi to 75 psi<br>(1.4 bar - 5.2 bar)                                           |
| Maximum Recommended Pump Speed | 60 cpm                                                                                                  | 60 cpm                                                                                                  | 60 cpm                                                                            | 60 cpm                                                                            |
| Cycles per Gallon (Liter)      | 3.8 (1.0)                                                                                               | 3.8 (1.0)                                                                                               | 6.5 (1.72)                                                                        | 6.5 (1.72)                                                                        |
| Wetted Parts                   | Stainless steel, CS, chrome, zinc, nickel, Buna-N, tungsten carbide, nylon, UHMWPE, leather, PTFE, PEEK | Stainless steel, CS, chrome, zinc, nickel, Buna-N, tungsten carbide, nylon, UHMWPE, leather, PTFE, PEEK | Stainless steel, CS, chrome, zinc, nickel, tungsten carbide, ductile iron, acetal | Stainless steel, CS, chrome, zinc, nickel, tungsten carbide, ductile iron, acetal |
| Sound Pressure Level           | 77 dB(A)                                                                                                | 80 dB(A)                                                                                                | 77 dB(A)                                                                          | 80 dB(A)                                                                          |
| Sound Power Level              | 87 dB(A)                                                                                                | 90 dB(A)                                                                                                | 87 dB(A)                                                                          | 90 dB(A)                                                                          |
| Approximate Weight             | 113 lb (51.3 kg)                                                                                        | 132 lb (59.9 kg)                                                                                        | 92 lb (41.7 kg)                                                                   | 102 lb (46.3 kg)                                                                  |
| Instruction Manual             | System – 312862<br>Pump – 311833<br>Pump Lower – 311717<br>Motor – 311238                               | System – 312862<br>Pump – 311833<br>Pump Lower – 311717<br>Motor – 311238                               | System – 312862<br>Pump – 311826<br>Pump Lower – 311825<br>Motor – 311238         | System – 312862<br>Pump – 311826<br>Pump Lower – 311825<br>Motor – 311238         |



## ORDERING OPTIONS

### OIL PUMP PACKAGES WITH DATATRAK

| Package Number with DataTrak | 247890              | 247894               | 247891               | 247895                |
|------------------------------|---------------------|----------------------|----------------------|-----------------------|
| Ratio                        | 6:1                 | 10:1                 | 12:1                 | 23:1                  |
| Mounting                     | 255143 (Wall)       | 255143 (Wall)        | 255143 (Wall)        | 255143 (Wall)         |
| Output per Cycle             | 1,000 cc            | 1,000 cc             | 580 cc               | 580 cc                |
| Output at 60 CPM             | 17.4 gpm (65.9 lpm) | 17.4 gpm (65.9 lpm)  | 9.2 gpm (34.8 lpm)   | 9.2 gpm (34.8 lpm)    |
| Motor Size                   | NXT 3400            | NXT 6500             | NXT 3400             | NXT 6500              |
| Maximum Fluid Pressure       | 620 psi (42.7 bar)  | 1,180 psi (81.3 bar) | 1,190 psi (82.1 bar) | 1,725 psi (118.9 bar) |
| Maximum Air Input Pressure   | 100 psi (6.9 bar)   | 100 psi (6.9 bar)    | 100 psi (6.9 bar)    | 75 psi (5.2 bar)      |
| System Manual                | 312862              | 312862               | 312862               | 312862                |
| Pump Manual                  | 311833              | 311833               | 311826               | 311826                |
| Pump Lower Manual            | 311717              | 311717               | 311825               | 311825                |
| Air Motor Manual             | 311238              | 311238               | 311238               | 311238                |
| Pump Inlet Size              | 2 in NPT            | 2 in NPT             | 2 in NPT             | 2 in NPT              |
| Pump Outlet Size             | 1-1/2 in NPT        | 1-1/2 in NPT         | 1-1/2 in NPT         | 1-1/2 in NPT          |
| 4 ft x 3/4 in Air Hose       | 15B554              | 15B554               | 15B554               | 15B554                |
| 6 ft x 1 in Fluid Hose       | 115042              | 115042               | 115042               | 115042                |
| Instruction Manual           | 312862              | 312862               | 312862               | 312862                |

### OIL PUMP PACKAGES WITHOUT DATATRAK

| Package Number without DataTrak              | 24D604              | 24D608               | 24D605               |
|----------------------------------------------|---------------------|----------------------|----------------------|
| Ratio                                        | 6:1                 | 10:1                 | 12:1                 |
| Mounting                                     | 255143 (Wall)       | 255143 (Wall)        | 255143 (Wall)        |
| Pump without DataTrak and Thermal Relief Kit | 24D598              | 24D601               | 24D599               |
| Output per Cycle                             | 1,000 cc            | 1,000 cc             | 580 cc               |
| Output at 60 CPM                             | 17.4 gpm (65.9 lpm) | 17.4 gpm (65.9 lpm)  | 9.2 gpm (34.8 lpm)   |
| Motor Size                                   | NXT 3400            | NXT 6500             | NXT 3400             |
| Maximum Fluid Pressure                       | 620 psi (42.7 bar)  | 1,180 psi (81.3 bar) | 1,190 psi (82.1 bar) |
| Maximum Air Input Pressure                   | 100 psi (6.9 bar)   | 100 psi (6.9 bar)    | 100 psi (6.9 bar)    |
| System Manual                                | 312862              | 312862               | 312862               |
| Pump Manual                                  | 311833              | 311833               | 311826               |
| Pump Lower Manual                            | 311717              | 311717               | 311825               |
| Air Motor Manual                             | 311238              | 311238               | 311238               |
| Pump Inlet Size                              | 2 in NPT            | 2 in NPT             | 2 in NPT             |
| Pump Outlet Size                             | 1-1/2 in NPT        | 1-1/2 in NPT         | 1-1/2 in NPT         |
| 4 ft x 3/4 in Air Hose                       | 15B554              | 15B554               | 15B554               |
| 6 ft x 1 in Fluid Hose                       | 115042              | 115042               | 115042               |
| Instruction Manual                           | 312862              | 312862               | 312862               |



# DYNA-STAR® HYDRAULIC PUMPS

## FIELD-PROVEN, ENERGY-EFFICIENT

Hydraulic Dyna-Star pumps provide reliable, quiet, ice-free performance at maximum pressure and low-flow rates and are up to three times more energy efficient than comparable compressed-air systems.



### Built-In Reliability

Self-lubricating vertical design for long life and reliable operation in high vibration environments.

### Quiet Hydraulic Motor

No need for add-on mufflers.

### High-Efficiency Motor

Uses less hydraulic oil.

### TYPICAL APPLICATIONS

- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

### TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)

## TECHNICAL SPECIFICATIONS

|                               |                        |                                          |                                           |                        |
|-------------------------------|------------------------|------------------------------------------|-------------------------------------------|------------------------|
| Fluid Pressure Ratio          | 1:1                    | 1:1                                      | 1/4:1                                     | 1:1 Stainless Steel    |
| Pump Number                   | 224741                 | 224742                                   | 236753                                    | 237653                 |
| Applications                  | Oil dispensing         | Oil dispensing                           | Bulk oil transfer                         | Antifreeze dispensing  |
| Drum Size                     | Universal              | 55 gal (200 l)<br>Bung- or cover-mounted | Universal                                 | Universal              |
| Maximum Input Pressure        | 1,500 psi (102 bar)    | 1,500 psi (102 bar)                      | 1,500 psi (102 bar)                       | 1,000 psi (70 bar)     |
| Maximum Fluid Input Volume    | 3 gpm (11.4 lpm)       | 3 gpm (11.4 lpm)                         | 3 gpm (11.4 lpm)                          | 3 gpm (11.4 lpm)       |
| Maximum Output Flow Rate      | 3 gpm (11.4 lpm)       | 3 gpm (11.4 lpm)                         | 10 gpm (37.9 lpm)                         | 3 gpm (11.4 lpm)       |
| Maximum Recommended CPM       | 60                     | 60                                       | 60                                        | 60                     |
| Maximum Fluid Output Pressure | 1,500 psi (102 bar)    | 1,500 psi (102 bar)                      | 375 psi (25.1 bar)                        | 1,500 psi (102 bar)    |
| Hydraulic Supply Inlet        | 3/8 in NPT             | 3/8 in NPT                               | 3/8 in NPT                                | 3/8 in NPT             |
| Hydraulic Return Outlet       | 3/4 in NPT             | 3/4 in NPT                               | 3/4 in NPT                                | 3/4 in NPT             |
| Fluid Outlet                  | 1/2 in NPT             | 1/2 in NPT                               | 1/2 in NPT                                | 1/2 in NPT             |
| Fluid Inlet                   | 1-1/2 in NPT           | 1-1/2 in NPT                             | 1-1/2 in NPT                              | 3/4 in NPT             |
| Maximum Incoming Fluid Temp.  | 130°F (54°C)           | 130°F (54°C)                             | 130°F (54°C)                              | 130°F (54°C)           |
| Wetted Parts                  | Steel, copper, leather | Steel, copper, leather                   | Aluminum, steel, nitrile,<br>polyurethane | Steel, copper, leather |
| Sound Pressure Level          | 77 dB(A)               | 77 dB(A)                                 | 77 dB(A)                                  | 77 dB(A)               |
| Approximate Weight            | 24 lb (10.9 kg)        | 24 lb (10.9 kg)                          | 48 lb (21.8 kg)                           | 24 lb (10.9 kg)        |
| Instruction Manual            | 308155                 | 308155                                   | 308390                                    | 308155                 |




## ORDERING OPTIONS

### DYNA-STAR HYDRAULIC PUMPS

| Part Number | Description                                                         |
|-------------|---------------------------------------------------------------------|
| 224741      | 1:1 Universal oil pump                                              |
| 224742      | 1:1 Oil pump for 55 gal (400 lb) drum size, bung- or cover- mounted |
| 236753      | 1/4:1 Universal oil pump                                            |
| 237653      | 1:1 Universal stainless steel oil pump                              |



## ACCESSORIES

### DRUM COVERS


|  | Part Number | Description                                                           |
|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------|
|                                                                                   | 200326      | For 55 gal (200 l) drums                                              |
|                                                                                   | 204574      | For 16 gal (60 l) drums                                               |
|                                                                                   | 222058      | For 5 gal (20 l) pails                                                |
|                                                                                   | 160754      | For 5 gal (20 l), 16 gal (60 l) and 55 gal (200 l) bung-mounted pumps |

### HYDRAULIC FLUID CONTROLS

Required for each pump.

|  | Part Number | Description                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | 236864      | Dyna-Star fluid controls [1,500 psi (102 bar); 3 gpm (11.4 lpm)]. Includes manifold with pressure-reducing valve, flow-control valve, pressure gauge, shut-off ball valves, and 3 ft (0.9 m) supply and return hoses. Instruction manual 308395. |
|  | 237904      | 1:1 Dyna-Star thermal relief valve, 1,600 psi (110 bar)                                                                                                                                                                                          |

### WALL-MOUNTING BRACKETS

|  | Part Number | Description                               |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------|
|                                                                                     | 203987      | For stubby/universal 1:1 Dyna-Star pump   |
|                                                                                     | 236778      | For stubby/universal 1/4:1 Dyna-Star pump |

# POWER-STAR™ HYDRAULIC PUMPS

## FIELD-PROVEN, ENERGY-EFFICIENT

Hydraulic Power-Star pumps provide reliable, quiet, ice-free performance at maximum pressure and low-flow rates and are up to three times more energy efficient than comparable compressed-air systems.



### Built-In Reliability

Self-lubricating vertical design for long life and reliable operation in high vibration environments.

### Quiet Hydraulic Motor

No need for add-on mufflers.

### High-Efficiency Motor

Uses less hydraulic oil.

## TYPICAL APPLICATIONS

- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)

## TECHNICAL SPECIFICATIONS

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| Fluid Pressure Ratio          | 1:1                                                 |
| Pump Number                   | 236754                                              |
| Applications                  | Bulk oil transfer                                   |
| Drum Size                     | Universal                                           |
| Maximum Input Pressure        | 1,500 psi (102 bar)                                 |
| Maximum Fluid Input Volume    | 12 gpm (45.4 lpm)                                   |
| Maximum Output Flow Rate      | 12 gpm (45.4 lpm)                                   |
| Maximum Recommended CPM       | 60                                                  |
| Maximum Fluid Output Pressure | 1,500 psi (102 bar)                                 |
| Hydraulic Supply Inlet        | 3/4 in NPT                                          |
| Hydraulic Return Outlet       | 1-1/4 in NPT                                        |
| Fluid Outlet                  | 1/2 in NPT                                          |
| Fluid Inlet                   | 1-1/2 in NPT                                        |
| Maximum Incoming Fluid Temp.  | 130°F (54°C)                                        |
| Wetted Parts                  | Iron, steel, stainless steel, nitrile, polyurethane |
| Sound Pressure Level          | 78 dB(A)                                            |
| Approximate Weight            | 100 lb (45.4 kg)                                    |
| Instruction Manual            | 308391                                              |




## ORDERING OPTIONS

### POWER-STAR HYDRAULIC PUMPS

| Part Number | Description            |
|-------------|------------------------|
| 236754      | 1:1 Universal oil pump |


## ACCESSORIES

### DRUM COVERS


|  | Part Number | Description                                                           |
|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------|
|                                                                                   | 200326      | For 55 gal (200 l) drums                                              |
|                                                                                   | 204574      | For 16 gal (60 l) drums                                               |
|                                                                                   | 222058      | For 5 gal (20 l) pails                                                |
|                                                                                   | 160754      | For 5 gal (20 l), 16 gal (60 l) and 55 gal (200 l) bung-mounted pumps |

### HYDRAULIC FLUID CONTROLS

Required for each pump.

|  | Part Number | Description                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                    | 236865      | Power-Star fluid controls [1,500 psi (102 bar); 12 gpm (45.4 lpm)]. Includes manifold with pressure-reducing valve, flow-control valve, pressure gauge, shut-off ball valves, and 3 ft (0.9 m) supply and return hoses. Instruction manual 308395. |

### WALL-MOUNTING BRACKET

|  | Part Number | Description                                |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------|
|                                                                                     | 236778      | For stubby/universal 1/4:1 Power-Star pump |

# MANUALLY OPERATED PUMPS

## ORDERING OPTIONS

### 16 GALLON (60 L) METERED AND NON-METERED DISPENSING PACKAGES

Designed for manual dispensing of fluid oil from bulk containers to point of application.



|                    |          |           |               |               |               |
|--------------------|----------|-----------|---------------|---------------|---------------|
| Package Number     | 225880   | 225376    | 225384        | 225380        | 225378*       |
| Fluids Handled     | ATF      | Gear lube | Gear lube     | Gear lube     | Gear lube     |
| Package Type       | Portable | Portable  | Portable      | Stationary    | Portable      |
| Pump Part Number   | 204867   | 204867    | 204867        | 204867        | 204867        |
| Meter Dispense Kit | 239707   | 239705    | 239705        | -             | -             |
| Dispense Kit       | -        | -         | -             | 214658        | 214658        |
| Fluid Hose         | -        | -         | 6 ft x 1/2 in | 6 ft x 1/2 in | 6 ft x 1/2 in |
| Drum Cover         | 204574   | 204574    | 204574        | 204574        | 204574        |
| Portable Base      | 203622   | 203622    | -             | -             | 203622        |
| Cart               | -        | -         | 203650        | -             | -             |
| Instruction Manual | 306436   | 306436    | 306436        | 306436        | 306436        |

\*Hydraulic; can be used for gear oil dispensing.



## ORDERING OPTIONS

### PAIL-DISPENSING PACKAGE FOR 5 GAL (20 L) PAILS

Mounts on top of standard 5 gal (20 l) pail (pail not included).  
 Dispenses 1.6 oz to 1.9 oz. (47.3 ml to 56.2 ml) per stroke.



|                    |              |
|--------------------|--------------|
| Package Number     | 226289       |
| Fluids Handled     | Gear lube    |
| Fluid Hose         | 4 ft (1.2 m) |
| Instruction Manual | 306875       |

### PUMPING BULK LUBRICANTS FROM 16 GAL (60 L) OR 55 GAL (200 L) DRUMS\*

All pumps come with suction tube and bung adapter.



|                    |                                      |                             |
|--------------------|--------------------------------------|-----------------------------|
| Package Number     | 114829                               | 226290                      |
| Type of Pump       | Lever <sup>(1)</sup>                 | Rotary <sup>(2)</sup>       |
| Fluids Handled     | Petroleum-based products, antifreeze | Petroleum-based products    |
| Delivery Rate      | 0.1 gal (0.4 l) per downstroke       | 1 gal (3.7 l) per 18 cycles |
| Fluid Hose         | -                                    | -                           |
| Instruction Manual | -                                    | 306876                      |

\*Drums not included.

<sup>1</sup> Telescopic suction tube mounts 2 in NPT bung opening of 16 gal (60 l) or 55 gal (200 l) drum. Package includes bung adapter and spout outlet.

<sup>2</sup> Package has adjustable 2 in NPT bung mounting to allow use with either 16 gal (60 l) or 55 gal (200 l) drum. Package includes bung adapter and spout outlet.



# OIL DISPENSE METERS



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| Dispense Consoles . . . . .              | 113-114 |

# DISPENSE METERS

OIL DISPENSE METERS AND CONTROL VALVES

|                                                                                                                           | Fluid                                                                                                                                                         | Manual/<br>Preset | Maximum<br>Working Pressure | Maximum<br>Flow Rate | Intended Use                  | Warranty                                 | Reference<br>Pages |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------|----------------------|-------------------------------|------------------------------------------|--------------------|
| <b>LDP5 Electronic Preset Meters</b><br> | <ul style="list-style-type: none"> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Antifreeze</li> </ul>                               | Preset            | 1,000 psi<br>(69 bar)       | 5 gpm<br>(19 lpm)    | Indoor                        | 5 years overall<br>(2 years electronics) | 91-93              |
| <b>EM Series Electronic Meters</b><br>   | <ul style="list-style-type: none"> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Antifreeze</li> </ul>                               | Manual            | 1,500 psi<br>(103.4 bar)    | 20 gpm<br>(76 lpm)   | Indoor/<br>Outdoor            | 5 years overall<br>(3 years electronics) | 94-96              |
| <b>PM Series Electronic Meters</b><br>   | <ul style="list-style-type: none"> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Antifreeze</li> </ul>                               | Preset            | 1,500 psi<br>(103.4 bar)    | 20 gpm<br>(76 lpm)   | Indoor/<br>Outdoor            | 5 years overall<br>(3 years electronics) | 97-99              |
| <b>SD Series Electronic Meters</b><br>  | <ul style="list-style-type: none"> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Antifreeze</li> </ul>                               | Manual/<br>Preset | 1,500 psi<br>(103.4 bar)    | 14 gpm<br>(53 lpm)   | Indoor/<br>Limited<br>Outdoor | 7 years overall<br>(3 years electronics) | 100-102            |
| <b>IM20 In-Line Meters</b><br>         | <ul style="list-style-type: none"> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Antifreeze</li> </ul>                               | In-Line           | 1,500 psi<br>(103.4 bar)    | 20 gpm<br>(76 lpm)   | Indoor/<br>Outdoor            | 5 years overall<br>(3 years electronics) | 103                |
| <b>IM20P In-Line Meter</b><br>         | <ul style="list-style-type: none"> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Antifreeze</li> </ul>                               | In-Line           | 1,500 psi<br>(103.4 bar)    | 20 gpm<br>(76 lpm)   | Indoor/<br>Outdoor            | 1 year                                   | 104                |
| <b>SDI15 In-Line Meters</b><br>        | <ul style="list-style-type: none"> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Antifreeze</li> <li>Diesel exhaust fluid</li> </ul> | In-Line           | 1,500 psi<br>(103.4 bar)    | 15 gpm<br>(56.8 lpm) | Indoor                        | 7 years overall<br>(3 years electronics) | 105                |
| <b>Mechanical Meters</b><br>           | <ul style="list-style-type: none"> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Antifreeze</li> </ul>                               | Manual/<br>Preset | 1,500 psi<br>(103.4 bar)    | 8 gpm<br>(30 lpm)    | Indoor/<br>Outdoor            | 5 years                                  | 106-108            |
| <b>SDV15 Control Valves</b><br>        | <ul style="list-style-type: none"> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Antifreeze</li> </ul>                               | N/A               | 1,500 psi<br>(103.4 bar)    | 15 gpm<br>(56.8 lpm) | Indoor/<br>Outdoor            | 7 years                                  | 109-110            |
| <b>XDV20 Control Valves</b><br>        | <ul style="list-style-type: none"> <li>Petroleum- and synthetic-based oils (motor, gear and ATF)</li> <li>Antifreeze</li> </ul>                               | N/A               | 1,500 psi<br>(103.4 bar)    | 20 gpm<br>(76 lpm)   | Indoor/<br>Outdoor            | 7 years                                  | 111-112            |



# LDP5 ELECTRONIC PRESET METERS

## PERFECT FOR LOWER-VOLUME SERVICE APPLICATIONS

For use in small service shops, fast lubes and low-volume in-plant applications.

### Easy-to-Read LCD Screen

Keeps dispenses precise.

### Fluid Extension Kits

Choose from rigid or flexible extensions with automatic thermal compensating nozzle.

### Operator Controls

Displays in quarts, pint, gallons or liters. Durable switches for long life.

### Rugged Meter Body

Superior impact resistance and long life.

### Comfortable Handle

Ergonomically designed for operator comfort. Two-finger trigger with latching on preset models.

### Fluid Swivel

1/2 inch fluid inlet.



## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Fleet services facilities
- In-plant

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Antifreeze

## TECHNICAL SPECIFICATIONS

|                                |                                                              |
|--------------------------------|--------------------------------------------------------------|
| Flow Range*                    | 0.1 gpm to 5 gpm (0.4 lpm to 19 lpm)                         |
| Maximum Working Pressure       | 1,000 psi (69 bar)                                           |
| Units of Measure               | Quarts, pints, gallons, liters (factory set to quarts)       |
| Accuracy**                     | +/- 0.5%                                                     |
| Inlet                          | 1/2 in NPT                                                   |
| Outlet                         | 1/2 in NPT                                                   |
| Maximum Totalizer              | 999,999 gallons or liters                                    |
| Maximum Recorded Dispense      | 999.9 units                                                  |
| Maximum Preset Volume          | 999.9 units (LDP5 only)                                      |
| Operating Temperature Range    | 32°F to 120°F (0°C to 48.8°C)                                |
| Storage Temperature Range      | -30°F to 120°F (-34.4°C to 48.8°C)                           |
| Outdoor Use                    | No                                                           |
| Battery                        | 9 volt alkaline                                              |
| Battery Life                   | One year                                                     |
| Wetted Parts                   | SST, nitrile rubber, zinc, CS, LCP                           |
| Meter Pressure Loss*           | 90 psi (6.2 bar) @ 5 gpm (19 lpm)                            |
| Dimensions (without extension) | 11 in L x 3.25 in W x 3.25 H (28 cm L x 8.3 cm W x 8.3 cm H) |
| Weight                         | 3 lb (1.36 kg)                                               |
| Warranty                       | Five years overall, two years electronics                    |
| Instruction Manual             | 312668                                                       |

\*Tested in 10W oil at 70°F. Flow rates vary with fluid pressure, temperature, viscosity, inlet and nozzle type.

\*\*At 2.5 gpm (9.5 lpm) @ 70°F (21°C) with 10 wt. oil and 1 gal (3.8 l) dispensed. May require recalibration. Out-of-box accuracy ±1.25%. Not recommended for in-line installation.




OIL DISPENSE METERS AND CONTROL VALVES

# LDP5 ELECTRONIC PRESET METERS







## ORDERING OPTIONS

### LDP5 ELECTRONIC PRESET METERS

Automatic nozzle included

|                                                                                   | Extension | Inlet in (mm) | Part Number | Package Includes |              |
|-----------------------------------------------------------------------------------|-----------|---------------|-------------|------------------|--------------|
|                                                                                   |           |               |             | Trigger Guard    | Swivel Cover |
|  | Flexible  | 1/2 (13)      | 258694      | Yes              | Yes          |
|  | Rigid     |               | 256216      | Yes              | Yes          |
|  | Flexible  |               | 255277      | No               | No           |

### NOZZLE EXTENSION KITS



|                                                                                     | Extension   | Fluid                    | Nozzle Description                | Part Number |
|-------------------------------------------------------------------------------------|-------------|--------------------------|-----------------------------------|-------------|
|  | Rigid       | Oil/Antifreeze           | Automatic, thermally compensating | 239949      |
|  |             | Gear lube                | Automatic, thermally compensating | 239950      |
|  |             | Gear lube                | Automatic                         | 238887      |
|  | Flexible    | Oil/Antifreeze           | Automatic, thermally compensating | 239951      |
|  | Nozzle Only | Oil/Antifreeze/Gear lube | Automatic, thermally compensating | 239829      |
|  |             | Oil/Antifreeze/Gear lube | Automatic                         | 238371      |

OIL DISPENSE METERS AND CONTROL VALVES






## ORDERING OPTIONS






### EM5/PM5 TO LD SERIES UPGRADE KITS

|                                                                                   | Part Number | Description |
|-----------------------------------------------------------------------------------|-------------|-------------|
|  | 257350      | EM5 to LDM5 |
|  | 257351      | PM5 to LDP5 |

### ACCESSORIES

|                                                                                    | Part Number | Description           |
|------------------------------------------------------------------------------------|-------------|-----------------------|
|   | 240416      | Inlet swivel          |
|   | 114017      | Inlet filter, 80 mesh |
|  | 240453      | Valve repair kit      |

### PROTECTIVE BOOTS WITH TRIGGER GUARDS

|                                                                                    | Part Number | Description |
|------------------------------------------------------------------------------------|-------------|-------------|
|  | 247759      | Black       |
|  | 243835      | Red         |
|  | 243836      | Blue        |
|  | 243837      | Green       |
|  | 247760      | Yellow      |

### SWIVEL COVERS

|                                                                                      | Part Number | Description |
|--------------------------------------------------------------------------------------|-------------|-------------|
|  | 191294      | Black       |
|  | 191287      | Red         |
|  | 191288      | Blue        |
|  | 191295      | Yellow      |

# EM<sup>®</sup> SERIES ELECTRONIC MANUAL DISPENSE METERS

## LOW-FLOW AND HIGH-FLOW MANUAL METERS

Building on the heritage of Graco's first electronic meter, the EM Series features a robust design at an affordable price. Our legacy valve handle features a long-life valve design for years of dependable service. These meters are weather-rated and impact-resistant to withstand the harshest shop conditions.

### Twist-Close Nozzle Prevents Leaking

Multiple extensions available including rigid, flexible and gear lube.

### Proven in Harsh Conditions

Sealed electronics (IP69K) are protected against direct pressure washing and dust.

### High-Flow Rates

Capable of up to 20 gpm.

### Long Battery Life

Features upgraded electronics and easily replaceable AAA batteries.

### Prevent Accidental Dispenses

Easy-to-hold locking handle.

### Legacy Valve

1/2 and 3/4 inch inlets, compatible with oil, ATF, antifreeze and gear lube.



## TYPICAL APPLICATIONS

- Automotive dealerships
- Service and fast lube centers
- Lube trucks
- Mining
- Heavy-duty dealerships
- Fleet service facilities
- In-plant

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Antifreeze






## TECHNICAL SPECIFICATIONS

|                             | EM8                                                                       | EM20                              |
|-----------------------------|---------------------------------------------------------------------------|-----------------------------------|
| Flow Range                  | 0.25 to 8 gpm (0.95 to 30.3 lpm)                                          | 0.25 to 20 gpm (0.95 to 75.7 lpm) |
| Maximum Operating Pressure  | 1,500 psi (102 bar)                                                       |                                   |
| Unit of Measure             | Quarts, gallons, pints, liters                                            |                                   |
| Accuracy/Repeatability      | ±0.5%                                                                     |                                   |
| Inlet                       | 1/2 NPT                                                                   | 1/2 NPT or 3/4 NPT                |
| Outlet                      | 3/4 straight thread O-ring boss                                           | 7/8 straight thread O-ring boss   |
| Maximum Totalizer           | 19,999 units                                                              |                                   |
| Maximum Recorded Dispense   | 19,999 units                                                              |                                   |
| Operating Temperature Range | -22°F to 180°F (-30°C to 82°C)                                            |                                   |
| Storage Temperature Range   | -40°F to 185°F (-40°C to 85°C)                                            |                                   |
| Outdoor Use                 | Yes – IP69k as per DIN 40050-9                                            |                                   |
| Battery                     | 2 (AAA) alkaline or 2 (AAA) lithium                                       |                                   |
| Wetted Parts                | Aluminum, stainless steel, carbon steel, acetal, nitrile rubber, Geolast™ |                                   |
| Meter Pressure Loss*        | 30 psi @ 6 gpm                                                            | 85 psi @ 12 gpm                   |
| Dimensions (L x W x H)      | 13 in x 3.5 in x 5.25 in (33 cm x 9 cm x 13.3 cm)                         |                                   |
| Weight                      | 3 lbs (1.36 kg)                                                           | 3.1 lbs (1.39 kg)                 |
| Warranty                    | Five years overall, three years electronics and 1 year wear parts         |                                   |
| Instruction Manual          | 3A5588                                                                    |                                   |

\*Tested in 10W oil at 70°F (21°C). Flow rate varies with fluid pressure, temperature, viscosity, inlet fitting size and nozzle type. Geolast is a registered trademark of Advanced Elastomer Systems.



## ORDERING OPTIONS

|      |                                                                                     | Extension | Inlet in (mm) | Nozzle Type                      | Part Number |
|------|-------------------------------------------------------------------------------------|-----------|---------------|----------------------------------|-------------|
| EM8  |    | Flexible  | 1/2 (13)      | Non-drip, manual open/close      | 25C904      |
|      |                                                                                     |           |               | Automatic, non-drip, quick-close | 26C526      |
|      |    | Rigid     |               | Non-drip, manual open/close      | 25C903      |
|      |                                                                                     |           |               | Automatic, non-drip, quick-close | 26C525      |
|      |   | Gear      |               | Non-drip, quick-close            | 25C905      |
| EM20 |  | Flexible  | 1/2 (13)      | High-flow, non-drip, quick-close | 25C915      |
|      |                                                                                     |           | 3/4 (19)      |                                  | 25C918      |
|      |  | Rigid     | 1/2 (13)      | High-flow, non-drip, quick-close | 25C916      |
|      |                                                                                     |           | 3/4 (19)      |                                  | 25C919      |








|      |                                                                                     | Inlet in (mm) | Part Number |
|------|-------------------------------------------------------------------------------------|---------------|-------------|
| EM8  |  | 1/2 (13)      | 25D433      |
| EM20 |  | 1/2 (13)      | 25D436      |
|      |                                                                                     | 3/4 (19)      | 25D437      |

OIL DISPENSE METERS AND CONTROL VALVES

# EM<sup>®</sup> SERIES ELECTRONIC MANUAL DISPENSE METERS

## ORDERING OPTIONS

### NOZZLE AND EXTENSION KITS

|                                                                                     | Extension   | Fluid          | Nozzle Description               | Part Number | Compatible Meters |
|-------------------------------------------------------------------------------------|-------------|----------------|----------------------------------|-------------|-------------------|
|    | Rigid       | Oil            | Non-drip, manual open/close      | 26C267      | EM8               |
|                                                                                     |             |                | Automatic, non-drip, quick-close | 255852      | EM8               |
|                                                                                     |             |                | Non-drip, quick-close            | 255921      | EM20              |
|    | Rigid       | Gear lube      | Non-drip, quick-close            | 255854      | EM8               |
|    | Flexible    | Oil            | Non-drip, manual open/close      | 26C268      | EM8               |
|                                                                                     |             |                | Automatic, non-drip, quick-close | 255853      | EM8               |
|                                                                                     |             |                | Non-drip, quick-close            | 255859      | EM20              |
|    | Nozzle Only | Oil/Antifreeze | Non-drip, manual open/close      | 17T207      | EM8               |
|   | Nozzle Only | Oil/Antifreeze | Non-drip, quick-close            | 255793      | EM20              |
|  | Nozzle Only | Gear lube      | Non-drip, quick-close            | 255470      | EM8               |
|  | Flexible    | Oil/Antifreeze | Extension only, 2 ft length      | 131733      | EM8               |

### ACCESSORIES

| Part Number | Description                                                     |
|-------------|-----------------------------------------------------------------|
| 25D934      | Electronic control replacement                                  |
| 129876      | Black impact guard for EM8 or EM20                              |
| 25D936      | Battery kit: includes AAA batteries, Torx screws and bezel seal |
| 100896      | 3/4 NPT(M) x 1/2 NPT(F) adapter                                 |

# PM™ SERIES ELECTRONIC PRESET DISPENSE METERS



## HEAVY-DUTY PRESET METERS FOR THE TOUGHEST JOBS

Use Graco's PM8 and PM20 electronic preset meters to dispense fluids quickly, reliably and accurately to vehicles, trucks, yellow iron machines and more in the most challenging, extreme environments. Designed with high-quality robust materials to protect key components, these powerful meters can take a beating without fail for optimal productivity.

### Proven in Harsh Conditions

Sealed electronics (IP69K) are protected against direct pressure washing and dust.

### Twist-Close Nozzle Prevents Leaking

Multiple extensions available including rigid, flexible and gear lube.

### Long Battery Life

Features four easily-replaceable AA batteries.

### Long-Life Valve Design

Poppet design offers exceptional valve life for heavy-usage applications.

### High Flow Rates

Capable of up to 20 gpm (75.7 lpm).

### Easy Valve Operation

Ergonomic four-finger trigger for user comfort protected by a robust full-length trigger guard.

### Durable Cast Body

Designed for heavy-duty and harsh applications.



## TYPICAL APPLICATIONS

- Lube trucks
- Mining
- Heavy-duty dealerships
- Fleet service facilities
- Automotive dealerships
- Service and fast lube centers
- In-plant

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Antifreeze/coolant

## TECHNICAL SPECIFICATIONS





|                              | PM8                                                                       | PM20                              |
|------------------------------|---------------------------------------------------------------------------|-----------------------------------|
| Flow Range                   | 0.25 to 8 gpm (0.95 to 30.3 lpm)                                          | 0.25 to 20 gpm (0.95 to 75.7 lpm) |
| Maximum Operating Pressure   | 1,500 psi (102 bar)                                                       |                                   |
| Unit of Measure              | Quarts, gallons, pints, liters                                            |                                   |
| Accuracy/Repeatability       | ±0.5%                                                                     |                                   |
| Inlet                        | 1/2 NPT                                                                   | 1/2 NPT or 3/4 NPT                |
| Outlet                       | 3/4 straight thread O-ring boss                                           |                                   |
| Maximum Dispense             | 19,999.9 units                                                            |                                   |
| Maximum Preset Dispense      | 19,999 units                                                              |                                   |
| Operating Temperature Range* | -20°F to 125°F (-29°C to 52°C)                                            |                                   |
| Storage Temperature Range    | -40°F to 185°F (-40°C to 85°C)                                            |                                   |
| Outdoor Use                  | Yes – IP69K as per IEC 60529                                              |                                   |
| Battery                      | 4 (AA) alkaline or 4 (AA) lithium                                         |                                   |
| Wetted Parts                 | Aluminum, stainless steel, carbon steel, acetal, nitrile rubber, Geolast™ |                                   |
| Meter Pressure Loss**        | 60 psi @ 6 gpm                                                            | 150 psi @ 12 gpm                  |
| Dimensions (L x W x H)       | 14.25 in x 4.1 in x 7.2 in (36.2 cm x 10.4 cm x 18.3 cm)                  |                                   |
| Weight                       | 5.2 lbs (2.4 kg)                                                          |                                   |
| Warranty                     | Five years overall, three years electronics and 1 year wear parts         |                                   |
| Instruction Manual           | 3A8307                                                                    |                                   |

\*Lithium ion batteries are required if operating below 0°F (-18°C). \*\*Tested in 10W oil at 70°F (21°C). Flow rate varies with fluid pressure, temperature, viscosity, inlet fitting size and nozzle type. Geolast is a registered trademark of Advanced Elastomer Systems.

OIL DISPENSE METERS AND CONTROL VALVES

# PM™ SERIES ELECTRONIC PRESET DISPENSE METERS

## ORDERING OPTIONS

|          |                                                                                    | Fluid                                                                               | Extension | Flow Range<br>gpm (lpm) | Inlet in (mm) | Part Number      |                   |
|----------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-------------------------|---------------|------------------|-------------------|
| PM8      |   | Oil                                                                                 | Flexible  | 0.25-8<br>(1-30)        | 1/2 (13)      | 273157           |                   |
|          |                                                                                    | Antifreeze                                                                          |           |                         |               | 25U086           |                   |
|          |   | Oil                                                                                 | Rigid     |                         |               | 273156           |                   |
|          |                                                                                    | Antifreeze                                                                          |           |                         |               | 25U085           |                   |
|          |  | Gear Lube                                                                           | Rigid     |                         |               | 0.25-5<br>(1-19) | 273158            |
|          | PM20                                                                               |  | Oil       |                         |               | Flexible         | 0.25-20<br>(1-76) |
| 3/4 (19) |                                                                                    |                                                                                     |           | 273168                  |               |                  |                   |
| Rigid    |                                                                                    | 1/2 (13)                                                                            |           | 273165                  |               |                  |                   |
|          |                                                                                    | 3/4 (19)                                                                            |           | 273167                  |               |                  |                   |

OIL DISPENSE METERS AND CONTROL VALVES



## ORDERING OPTIONS

### NOZZLE AND EXTENSION KITS

|  | Extension   | Fluid          | Nozzle Description               | Part Number | Compatible Meters |
|--|-------------|----------------|----------------------------------|-------------|-------------------|
|  | Rigid       | Oil            | Non-drip, manual open/close      | 26C267      | PM8               |
|  |             |                | Automatic, non-drip, quick-close | 255852      | PM8               |
|  |             |                | Non-drip, quick-close            | 255857      | PM20              |
|  | Rigid       | Gear lube      | Non-drip, quick-close            | 255854      | PM8               |
|  | Flexible    | Oil            | Non-drip, manual open/close      | 26C268      | PM8               |
|  |             |                | Automatic, non-drip, quick-close | 255853      | PM8               |
|  |             |                | Non-drip, quick-close            | 255858      | PM20              |
|  | Nozzle Only | Oil/Antifreeze | Non-drip, manual open/close      | 17T207      | PM8               |
|  | Nozzle Only | Oil/Antifreeze | Non-drip, quick-close            | 255461      | PM20              |
|  | Nozzle Only | Gear lube      | Non-drip, quick-close            | 255470      | PM8               |
|  | Flexible    | Oil/Antifreeze | Extension only, 2 ft length      | 131733      | PM8               |

### ACCESSORIES

| Part Number | Description                                |
|-------------|--------------------------------------------|
| 18F169      | Electronic control replacement             |
| 273181      | Black impact guard for PM8 or PM20         |
| 25D906      | Replacement inlet screen for oil/gear lube |
| 25U000      | Replacement inlet screen for antifreeze    |
| 18F174      | Valve replacement for oil/gear lube        |
| 18F175      | Valve replacement for antifreeze           |
| 18F170      | Replacement gasket seals for electronics   |

# SD SERIES™ ELECTRONIC METERS

## PREMIUM QUALITY AND PERFORMANCE WITH ERGONOMIC DESIGN

Graco's premium SD meters were designed from the ground up to provide the best user experience. These robust meters feature high flow, improved ergonomics and a large high-contrast LCD screen to make viewing dispense amounts easy in all lighting conditions.

### Large LCD High-Contrast Display

- High-contrast screen for reading in all lighting conditions with easy setup and navigation.
- See what fluid the meter is setup for and exactly how much you are dispensing.

### Available in Two Models

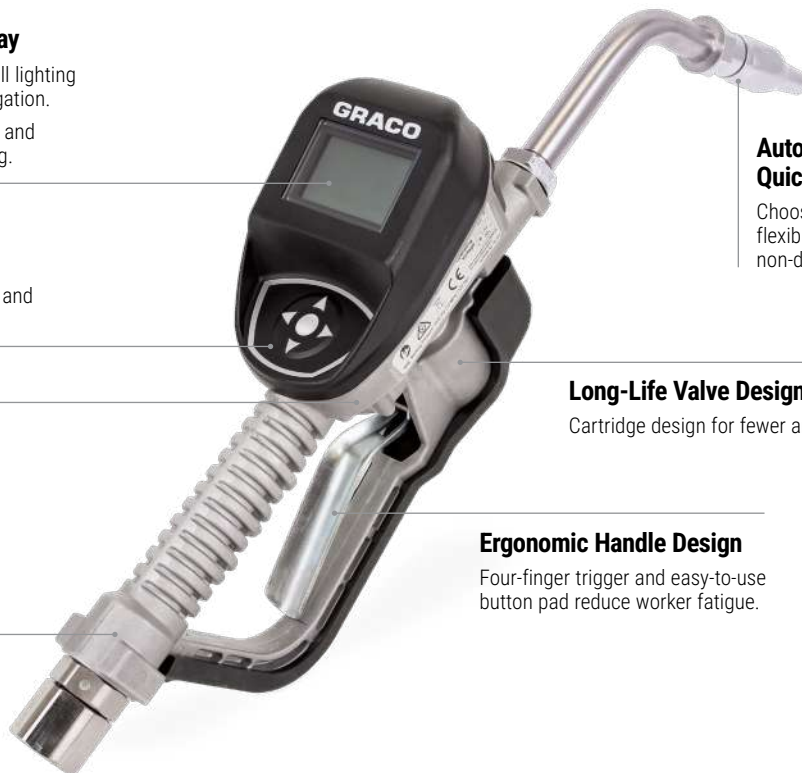
- Manual or preset options.
- Preset is compatible with Pulse™ FC and upgradeable to Pulse™ Pro.

### High Flow

Available in two models – 8 gpm (30 lpm) or 18 gpm (68 lpm).

### Durable Cast Body

Designed for heavy duty and harsh applications.



### Automatic Quick-Close Nozzle

Choose from rigid or flexible extensions with non-drip performance.

### Long-Life Valve Design

Cartridge design for fewer and easier repairs.

### Ergonomic Handle Design

Four-finger trigger and easy-to-use button pad reduce worker fatigue.

## TYPICAL APPLICATIONS

- Automotive dealerships
- Heavy-duty dealerships
- Fast lube centers
- Fleet service facilities
- Service shops
- In-plant
- Mining

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor gear, and ATF)
- Antifreeze
- Windshield wash

## TECHNICAL SPECIFICATIONS

|                                            |                                                                                                      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------|
| Flow Range*                                | 0.25 gpm to 18 gpm (0.9 lpm to 68 lpm)                                                               |
| Maximum Working Pressure                   | 1,500 psi (103.4 bar)                                                                                |
| Units of Measure                           | Pints, quarts, gallons, liters (factory set to quarts)                                               |
| Metered Dispense Valve Accuracy**          | +/- 0.5%                                                                                             |
| Inlet                                      | 1/2 in-14 NPT or 3/4 in-14 NPT                                                                       |
| Outlet                                     | 3/4 in-16 straight thread O-ring Boss                                                                |
| Maximum Recorded Dispense                  | 9999 units (factory set in quarts)                                                                   |
| Operating Temperature Range                | 4°F to 158°F (-20°C to 70°C)                                                                         |
| Storage Temperature Range                  | -40°F to 158°F (-40°C to 70°C)                                                                       |
| Battery Life***                            | 6 months                                                                                             |
| Wetted Parts                               | Aluminum, stainless steel, PBT, nitrile rubber, zinc-plated carbon steel, nickel plated carbon steel |
| Dimensions (without extension) – L x W x H | 13 in x 3.75 in x 5.75 in (33 cm x 9.5 cm x 14.6 cm)                                                 |
| Weight                                     | 5.3 lb (2.4 kg)                                                                                      |
| Warranty                                   | Five years overall, three years electronics                                                          |
| Instruction Manual                         | 3A6711 and 3A6673                                                                                    |

\*Tested in 10W motor oil. Flow rates vary with fluid pressure, temperature and viscosity.

\*\*At 2.5 gpm (9.5 lpm), at 70°F (21°C), with 10-weight oil and 1 gallon dispensed. May require calibration.

\*\*\*Battery required to meet life expectancy: Energizer® Alkaline E91.



## ORDERING OPTIONS SD ELECTRONIC METERS



|                 | Dispense Type             | Flow Range gpm (lpm) | Fluid      | Extension | Inlet in (NPT) | Part Number |
|-----------------|---------------------------|----------------------|------------|-----------|----------------|-------------|
| SDP8            | Preset (Pulse FC-enabled) | 0.25–8 (1–30)        | Oil        | Rigid     | 1/2            | 26C384      |
|                 |                           |                      |            | Flexible  | 1/2            | 26C354      |
|                 |                           |                      | Antifreeze | Rigid     | 1/2            | 26C385      |
|                 |                           |                      |            | Flexible  | 1/2            | 26C355      |
| SDP18           | Preset (Pulse FC-enabled) | 0.25–18 (1–68)       | Oil        | Flexible  | 1/2            | 26C357      |
|                 |                           |                      |            | Flexible  | 3/4            | 26C361      |
|                 |                           |                      |            | Rigid     | 3/4            | 26C360      |
|                 |                           |                      |            | Rigid     | 1/2            | 26C356      |
| SDM8            | Manual                    | 0.25–8 (1–30)        | Oil        | Flexible  | 1/2            | 25M406      |
|                 |                           |                      |            | Rigid     | 1/2            | 25M404      |
|                 |                           |                      | Antifreeze | Flexible  | 1/2            | 25M407      |
|                 |                           |                      |            | Rigid     | 1/2            | 25M405      |
|                 |                           |                      | Gear Lube  | Rigid     | 1/2            | 25M413      |
| Windshield Wash | Rigid                     | 1/2                  | 25M415     |           |                |             |
| SDM18           | Manual                    | 0.25–18 (1–68)       | Oil        | Flexible  | 3/4            | 25M417      |
|                 |                           |                      |            | Rigid     | 3/4            | 25M416      |
|                 |                           |                      |            | Flexible  | 1/2            | 25M411      |
|                 |                           |                      |            | Rigid     | 1/2            | 25M410      |


## NOZZLE AND EXTENSION KITS

|  | Extension   | Fluid           | Nozzle Description               | Part Number | Compatible Meters |
|--|-------------|-----------------|----------------------------------|-------------|-------------------|
|  | Rigid       | Oil             | Automatic, non-drip, quick-close | 255852      | SDM8/SDP8         |
|  |             | Antifreeze      | Non-drip, manual open/close      | 26C267      | SDM8/SDP8         |
|  |             | Oil/Antifreeze  | High-flow, non-drip, quick-close | 255857      | SDM18/SDP18       |
|  | Rigid       | Gear lube       | Non-drip, quick-close            | 255854      | SDM8/SDP8         |
|  | Flexible    | Oil             | Automatic, non-drip, quick-close | 255853      | SDM8/SDP8         |
|  |             | Antifreeze      | Non-drip, manual open/close      | 26C268      | SDM8/SDP8         |
|  |             | Oil/Antifreeze  | High-flow, non-drip, quick-close | 255858      | SDM18/SDP18       |
|  | Nozzle Only | Oil             | Automatic, non-drip, quick-close | 17R220      | SDM8/SDP8         |
|  | Nozzle Only | Gear lube       | Non-drip, quick-close            | 255470      | SDM8/SDP8         |
|  | Nozzle Only | Oil/Antifreeze  | Non-drip, manual open/close      | 17T207      | SDM8/SDP8         |
|  | Flexible    | Oil/Antifreeze  | Extension only, 2 ft length      | 131733      | SDM8/SDP8         |
|  | Rigid       | Windshield wash | Extension, nozzle                | 273079      | SDM8              |






# SD SERIES™ ELECTRONIC METERS

## ORDERING OPTIONS


### FILTER KITS FOR SD SERIES METERS

|  | Part Number | Description                                         |
|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------|
|                                                                                   | 255885      | Kit includes filters/strainers, spacers and O-rings |

### SWIVEL COVERS

|    | Part Number | Description |
|-------------------------------------------------------------------------------------|-------------|-------------|
|                                                                                     | 15T366      | Black       |
|    | Part Number | Description |
|                                                                                     | 15T367      | Red         |
|    | Part Number | Description |
|                                                                                     | 15T368      | Blue        |
|    | Part Number | Description |
|                                                                                     | 15T369      | Green       |
|  | Part Number | Description |
|                                                                                     | 15T370      | Yellow      |

### IMPACT PROTECTION

|  | Part Number | Description         |
|-------------------------------------------------------------------------------------|-------------|---------------------|
|                                                                                     | 131226      | Pulse/SD meter boot |

OIL DISPENSE METERS AND CONTROL VALVES



# IM20<sup>®</sup> ELECTRONIC IN-LINE METER

## HIGH-FLOW IN-LINE METER

Graco's IM20 in-line meter is weather-rated and shock-resistant, protecting the electronics from intense, high-pressure cleaning and mechanical vibration common in industrial applications.



### Easy-to-Read LCD

Simple operator control. Measures in quarts, gallons, pints and liters.

### Sealed Electronics

IP69K-rated meter. Electronics are safe from pressure washing and dusty environments.

### Tracks Totals in Two Modes

Reset total for a periodic dispense history and non-reset total for the meter's total dispense history.

### Easy Battery Replacement

Long-lasting, replaceable AAA batteries.

## TYPICAL APPLICATIONS

- Automotive dealerships
- Service and fast lube centers
- Lube trucks
- Mining
- Heavy-duty dealerships
- Fleet service facilities
- In-plant

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Antifreeze

## TECHNICAL SPECIFICATIONS

|                             |                                                                           |
|-----------------------------|---------------------------------------------------------------------------|
| Flow Range*                 | 0.25 to 20 gpm (0.95 to 75.7 lpm)                                         |
| Maximum Working Pressure    | 1,500 psi (102 bar)                                                       |
| Unit of Measure             | Quarts, pints, gallons, liters (factory set to quarts)                    |
| Accuracy/Repeatability      | ±0.5%                                                                     |
| Inlet/Outlet                | 3/4 NPT                                                                   |
| Maximum Totalizer           | 19,999 units                                                              |
| Maximum Recorded Dispense   | 19,999 units                                                              |
| Operating Temperature Range | -22°F to 180°F (-30°C to 82°C)                                            |
| Storage Temperature Range   | -40°F to 185°F (-40°C to 85°C)                                            |
| Outdoor Use                 | Yes – IP69k as per DIN 40050-9                                            |
| Battery                     | 2 (AAA) alkaline or (2) AAA lithium                                       |
| Wetted Parts                | Aluminum, stainless steel, carbon steel, acetal, nitrile rubber, Geolast™ |
| Meter Pressure Loss*        | 35 psi @ 12 gpm                                                           |
| Dimensions (L x W x H)      | 4.2 in x 3.4 in x 3.2 in (10.7 cm x 8. cm x 8.1 cm)                       |
| Weight                      | 1 lb. 4 oz. (0.57 kg)                                                     |
| Warranty                    | Five years overall, three years electronics                               |
| Instruction Manual          | 3A5588                                                                    |

\*Tested in 10W oil at 70°F (21°C). Flow rate varies with fluid pressure, temperature, viscosity, inlet fitting size and nozzle type. Geolast is a registered trademark of Advanced Elastomer Systems.

## ORDERING OPTIONS

| Part Number | Description                                 |
|-------------|---------------------------------------------|
| 25C841      | IM20 high-flow, high-pressure in-line meter |

OIL DISPENSE METERS AND CONTROL VALVES

# IM20P® IN-LINE METERS

## ROBUST ELECTRIC IN-LINE METER FOR WIRED INDOOR AND OUTDOOR APPLICATIONS

The IM20P wired electronic meter delivers precise in-line dispenses for in-plant, industrial and other applications. Its heavy-duty aluminum exterior and sealed electronics protect against corrosion inside or outside the plant. Designed and manufactured by a proven leader in meter technology, it's capable of flow rates up to 20 gpm (75.7 lpm) for optimal performance.

### High Flow

Flow rates up to 20 gpm (75.7 lpm) for faster dispense.

### Rugged Aluminum Body

Remains corrosion free in harsh environments for years of trouble-free service.

### Large Inlet and Outlet Porting

Minimal pressure drop to increase production.

### Sealed Electronics

Meters are suitable for indoor or outdoor use. IP69K rated.

### Wired Convenience

Easily integrated with PLC (programmable logic controller).



## TYPICAL APPLICATIONS

- Heavy-duty mobile service trucks
- Mining
- In-plant

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Antifreeze/coolant

## ORDERING OPTIONS

| Part Number | Description                                         |
|-------------|-----------------------------------------------------|
| 133480      | IM20P high-flow, high-pressure in-line pulser meter |

## TECHNICAL SPECIFICATIONS

|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| Flow Range*                 | 0.25 gpm to 20 gpm (0.95 lpm to 75.7 lpm)            |
| Maximum Working Pressure    | 1,500 psi (10 MPa, 102 bar)                          |
| Units of Measure            | User-defined based on pulse output                   |
| Accuracy                    | +/- 0.5%                                             |
| Inlet/Outlet                | 3/4 in NPT                                           |
| Operating Temperature Range | -22°F to 180°F (-30°C to 82°C)                       |
| Storage Temperature Range   | -40°F to 185°F (-40°C to 85°C)                       |
| Outdoor Use                 | Yes – IP69K as per DIN 40050-9                       |
| Operating Voltage           | 12–24 VDC                                            |
| Operating Current           | 26–51 mA                                             |
| Wire Connection             | 2-wire (18 ga) PNP or NPN                            |
| Wetted Parts                | Aluminum, acetal, nitrile, rubber                    |
| Meter Pressure Loss*        | 35 psi (2.41 bar) @ 12 gpm (45.4 lpm)                |
| Dimensions (L x W x H)      | 5.8 in x 3.4 in x 2.9 in (14.7 cm x 8.6 cm x 7.4 cm) |
| Weight                      | 1.3 lb (0.59 kg)                                     |
| Warranty                    | One year                                             |
| Instruction Manual          | 3A8625                                               |

\*Tested in 10W oil at 70°F. Flow rate varies with fluid pressure, temperature, viscosity, inlet fitting size and nozzle type.



# SDI15 IN-LINE ELECTRONIC METER



## Energy Efficient

Powered by two AA alkaline batteries.

## Rugged Stainless Steel Body

Remains corrosion free in hard environments for years of trouble-free service.

## Tracks Totals in Two Modes

Reset total for a periodic dispense history and non-reset total for the meter's total dispense history.

## Large, Easy-to-Read LCD

Simple operator controls and measures in pints, quarts, liters or gallons.

## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Mining

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Antifreeze
- Windshield washer fluid
- Diesel exhaust fluid

## TECHNICAL SPECIFICATIONS

|                             |                                                             |
|-----------------------------|-------------------------------------------------------------|
| Flow Range*                 | 0.5 gpm to 15 gpm (1.9 lpm to 57 lpm)                       |
| Maximum Working Pressure    | 1,500 psi (103 bar)                                         |
| Units of Measure            | Quarts, pints, gallons, liters (factory-set to quarts)      |
| Accuracy                    | ± 0.5%                                                      |
| Inlet/Outlet                | 1/2 NPT                                                     |
| Maximum Totalizer           | 99,999                                                      |
| Maximum Recorded Dispense   | 999.99                                                      |
| Operating Temperature Range | -4°F to 122°F (-20°C to 50°C)                               |
| Storage Temperature Range   | -13°F to 122°F (-25°C to 50°C)                              |
| Outdoor Use                 | No                                                          |
| Battery                     | 2AA alkaline                                                |
| Wetted Parts                | Nitrile rubber, SST and Geolast                             |
| Meter Pressure Loss*        | 22 psi (1.5 bar) @ 14 gpm (53 lpm)                          |
| Dimensions                  | 5 in L x 3 in W x 2.75 in H (12.7 cm L x 7.6 cm W x 7 cm H) |
| Weight                      | 1.8 lb (0.8 kg)                                             |
| Warranty                    | Seven years overall, three years electronics                |
| Instruction Manual          | 313048                                                      |

\*Tested in 10W oil at 70°F. Flow rates vary with fluid pressure, temperature and viscosity.



OIL DISPENSE METERS AND CONTROL VALVES

## ORDERING OPTIONS

### METERS

| Part Number | Description                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 247453      | SDI15 medium/high pressure – medium-/high-flow in-line meter for petroleum- and synthetic-based oils, antifreeze and windshield washer fluid |
| 24G738      | SDI15 medium/high pressure – medium-/high-flow in-line meter for diesel exhaust fluid applications (BSPP)                                    |

### ACCESSORIES

|                                                                                      | Part Number | Description                        |
|--------------------------------------------------------------------------------------|-------------|------------------------------------|
|  | 108458      | Shutoff ball valve 1/2 NPT(F)      |
|  | 223179      | Strainer kit 1/2 NPT(F) 1/2 NPT(M) |

# MECHANICAL METERS

## ACCURATE DISPENSING FOR A WIDE VARIETY OF VEHICLE OR MACHINE SERVICE APPLICATIONS

Ideal for indoor or outdoor use in all size shops.

### Impact-Resistant Shroud

Resists scratches and protects knob and dial from damage.

### Built-In Totalizer

Helps manage material usage.

### Simple, Easy Design

Dial and face design is easy to read and set.

### Fluid Extension Kits

Choose from rigid or flexible with automatic thermal compensating nozzle.

### Fluid Swivel

1/2 inch fluid inlet.

### Durable Cast Housing

Durable aluminum body is balanced and lightweight with comfortable grip.



## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Antifreeze

## TECHNICAL SPECIFICATIONS


|                             |                                                     |
|-----------------------------|-----------------------------------------------------|
| Flow Range*                 | 0.28 gpm (1.0 lpm) to 8 gpm (30.2 lpm)              |
| Maximum Working Pressure    | 1,500 psi (103 bar)                                 |
| Units of Measure            | Quarts, gallons, liters                             |
| Accuracy                    | ± 1%                                                |
| Inlet                       | 1/2 in NPT                                          |
| Outlet                      | 3/4-16 straight thread O-ring boss                  |
| Maximum Totalizer           | 99,999 units                                        |
| Maximum Recorded Dispense   | 60 gallons                                          |
| Operating Temperature Range | -50°F to 160°F (-45°C to 70°C)                      |
| Outdoor Use                 | Yes                                                 |
| Wetted Parts                | Brass, aluminum, SST, TPE                           |
| Meter Pressure Loss*        | 30 psi (2.1 bar) @ 4 gpm (15 lpm)                   |
| Dimensions (L x W x H)      | 11.5 in x 5 in x 6.3 in (29.2 cm x 12.7 cm x 16 cm) |
| Weight                      | 3.5 lb (1.6 kg)                                     |
| Warranty                    | Five years                                          |
| Instruction Manual          | 333492                                              |

\*Tested with 10W motor oil. Minimum/maximum flow rates will vary with fluid viscosity.






## ORDERING OPTIONS


### MANUAL METERS

|  | Extension | Model Description | Part Number |
|-----------------------------------------------------------------------------------|-----------|-------------------|-------------|
|                                                                                   | Bare      | 4/16 Liter        | 24U956      |
|                                                                                   |           | 4/16 Quart        | 24U959      |

### MANUAL METER PACKAGES

|   | Extension | Model Description | Part Number | Replacement Nozzle/Extension Kit |
|-------------------------------------------------------------------------------------|-----------|-------------------|-------------|----------------------------------|
|                                                                                     | Flexible  | 4/16 Liter        | 24V043      | 26C268                           |
| 4/16 Quart                                                                          |           | 24V034            | 26C268      |                                  |
|  | Rigid     | 4/16 Liter        | 24V046      | 26C267                           |
|                                                                                     |           | 4/16 Quart        | 24V037      | 26C267                           |
|  | Gear Lube | 4/16 Liter        | 24V049      | 255854                           |
|                                                                                     |           | 4/16 Quart        | 24V040      | 255854                           |

### PRESET METERS

|  | Extension | Model Description | Part Number |
|-------------------------------------------------------------------------------------|-----------|-------------------|-------------|
|                                                                                     | Bare      | 60 Gallon         | 24U950      |
|                                                                                     |           | 60 Liter          | 24U953      |
| 60 Quart                                                                            |           | 24U947            |             |





# MECHANICAL METERS

## ORDERING OPTIONS


### PRESET METER PACKAGES

|    | Extension   | Model Description | Part Number | Package Includes |
|-------------------------------------------------------------------------------------|-------------|-------------------|-------------|------------------|
|                                                                                     |             |                   |             | Nozzle Extension |
|    | Flexible    | 60 Gallon         | 24Z129      | 255853           |
|                                                                                     |             | 60 Liter          | 24Z132      | 255853           |
|                                                                                     |             | 60 Quart          | 24Z126      | 255853           |
|    | Rigid       | 60 Gallon         | 24Z128      | 255852           |
|                                                                                     |             | 60 Liter          | 24Z131      | 255852           |
|                                                                                     |             | 60 Quart          | 24Z125      | 255852           |
|   | Short Rigid | 60 Gallon         | 24V055      | 24W641           |
|                                                                                     |             | 60 Liter          | 24V058      | 24W641           |
|                                                                                     |             | 60 Quart          | 24V052      | 24W641           |
|  | Gear Lube   | 60 Gallon         | 24Z130      | 255854           |
|                                                                                     |             | 60 Liter          | 24Z133      | 255854           |
|                                                                                     |             | 60 Quart          | 24Z127      | 255854           |

### NOZZLE EXTENSIONS

|  | Fluid          | Extension                        | Compatible Meter | Part Number |
|-------------------------------------------------------------------------------------|----------------|----------------------------------|------------------|-------------|
|  | Oil            | Flexible                         | Manual           | 255853      |
|                                                                                     |                | Rigid                            | Manual           | 255852      |
|                                                                                     |                | Short Rigid                      | Preset           | 24W641      |
|  | Antifreeze     | Flexible                         | Manual/Preset    | 24W306      |
|                                                                                     |                | Rigid                            | Manual/Preset    | 255855      |
|  | Oil/Antifreeze | Flexible (extension only - 2 ft) | Manual/Preset    | 131733      |
|  | Gear lube      | Rigid                            | Manual           | 255854      |

### ACCESSORIES

|  | Part Number | Description                  |
|-------------------------------------------------------------------------------------|-------------|------------------------------|
|                                                                                     | 256164      | Strainer filter kit, 10-pack |



# SDV15 CONTROL VALVE

## FOR STANDARD AND HEAVIER-DUTY APPLICATIONS

Designed to perform in larger dealerships, fleet maintenance shops, municipal garages and higher-volume in-plant applications with longer plumbing runs and larger fluid usage.



### Fluid Extension Kits

Choose from rigid or flexible extensions.

### Lock-On/Lock-Off Trigger

For hands-free operation.

### Sturdy Cast Body

Designed for use in tough environments.

### Fluid Swivel

1/2 inch fluid inlet.

OIL DISPENSE METERS AND CONTROL VALVES

## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Lube trucks
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Antifreeze

## TECHNICAL SPECIFICATIONS






|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| Flow Range*                 | 15 gpm (56.8 lpm)                                    |
| Maximum Working Pressure    | 1,500 psi (103 bar)                                  |
| Inlet                       | 1/2 in NPT                                           |
| Outlet                      | 3/4-16 straight thread O-ring boss                   |
| Operating Temperature Range | -40°F to 180°F (-40°C to 82°C)                       |
| Outdoor Use                 | Yes                                                  |
| Wetted Parts                | Aluminum, SST, CS, acetal, nitrile rubber, tpe       |
| Dimensions (L x W x H)      | 12 in x 8.4 in x 2.4 in (30.5 cm x 21.3 cm x 6.1 cm) |
| Weight                      | 0.4 lb (0.18 kg)                                     |
| Warranty                    | Seven years                                          |
| Instruction Manual          | 312789                                               |

\*Tested in 10W oil at 70°F. Flow rates vary with fluid pressure, temperature, viscosity, inlet fitting and nozzle type.


# SDV15 CONTROL VALVE

## ORDERING OPTIONS


### SDV15 CONTROL VALVE

|                                                                                     | Fluid      | Extension | Inlet in (mm) | Part Number |
|-------------------------------------------------------------------------------------|------------|-----------|---------------|-------------|
|    | Oil        | Rigid     | 1/2 (13)      | 247712      |
|    |            | Flexible  |               | 247713      |
|    | Antifreeze | Rigid     |               | 247715      |
|   |            | Flexible  |               | 247716      |
|  | Gear       | Gear      |               | 247714      |


### SDV15 BARE CONTROL VALVE

|                                                                                     | Inlet in (mm) | Part Number |
|-------------------------------------------------------------------------------------|---------------|-------------|
|  | 1/2 (13)      | 247717      |

### HIGH FLOW NOZZLES WITH EXTENSION

|                                                                                     | Extension | Part Number |
|-------------------------------------------------------------------------------------|-----------|-------------|
|  | Rigid     | 255857      |
|  | Flexible  | 255858      |

### FILTER KIT

|                                                                                     | Description         | Part Number |
|-------------------------------------------------------------------------------------|---------------------|-------------|
|  | Strainer filter kit | 256164      |

### QUICK CLOSE NOZZLE

Extension sold separately.

|                                                                                     | Fluid                      | Part Number |
|-------------------------------------------------------------------------------------|----------------------------|-------------|
|  | Oil                        | 17R220      |
|  | Antifreeze                 | 255460      |
|  | Gear lube                  | 255470      |
|  | Oil/Antifreeze (high-flow) | 255461      |



# XDV20 CONTROL VALVE

## FOR STANDARD AND HEAVIER-DUTY APPLICATIONS

Designed to perform in larger dealerships, fleet maintenance shops, municipal garages and higher-volume in-plant applications with longer plumbing runs and larger fluid usage.

### Fluid Extension Kits

Choose from rigid or flexible extensions with automatic flush-mount nozzle design that re-seats after each dispense to prevent dirt contamination.

### Lock-On/Lock-Off Trigger

For hands-free operation.

### Sturdy Cast Body

Designed for use in tough environments.

### 1/2 and 3/4 Inch Inlet with Swivel Options

Meets standard and high flow requirements.



OIL DISPENSE METERS AND CONTROL VALVES

## TYPICAL APPLICATIONS

- High-flow, non-metered oil dispense
- Automotive dealerships
- Heavy-duty dealerships
- Fast lube centers
- Fleet service facilities
- In-plant
- Lube trucks
- Mining

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Antifreeze

## TECHNICAL SPECIFICATIONS

|                             |                                                      |
|-----------------------------|------------------------------------------------------|
| Flow Range*                 | Up to 20 gpm (75.7 lpm)                              |
| Maximum Working Pressure    | 1,500 psi (103 bar)                                  |
| Inlet                       | 1/2 in or 3/4 in NPT                                 |
| Outlet                      | 7/8-14 straight thread O-ring boss                   |
| Operating Temperature Range | -40°F to 180°F (-40°C to 82°C)                       |
| Outdoor Use                 | Yes                                                  |
| Wetted Parts                | Aluminum, SST, CS, acetal, nitrile rubber, Geolast   |
| Dimensions (L x W x H)      | 12 in x 8.4 in x 2.4 in (30.5 cm x 21.3 cm x 6.1 cm) |
| Weight                      | 0.4 lb (0.18 kg)                                     |
| Warranty                    | Seven years                                          |
| Instruction Manual          | 308642                                               |



\*Tested in 10W oil at 70°F. Flow rates vary with fluid pressure, temperature, viscosity, inlet fitting and nozzle type.

# XDV20 CONTROL VALVE


## ORDERING OPTIONS

### XDV20 CONTROL VALVE




Includes high flow, quick-close nozzle.

|                                                                                   | Extension | Inlet in (mm) | Part Number |
|-----------------------------------------------------------------------------------|-----------|---------------|-------------|
|  | Rigid     | 1/2 (13)      | 247718      |
|                                                                                   |           | 3/4 (19)      | 247722      |
|  | Flexible  | 1/2 (13)      | 247721      |
|                                                                                   |           | 3/4 (19)      | 247723      |

### XDV20 BARE CONTROL VALVE

|                                                                                    | Inlet in (mm) | Part Number |
|------------------------------------------------------------------------------------|---------------|-------------|
|  | 1/2 (13)      | 247724      |
|                                                                                    | 3/4 (19)      | 247725      |

## ACCESSORIES

|                                                                                     | Part Number | Description                                              |
|-------------------------------------------------------------------------------------|-------------|----------------------------------------------------------|
|  | 255793      | Quick-close high-flow nozzle for oil, ATF and antifreeze |
|  | 255859      | Flexible extension with quick-close nozzle (255793)      |
|  | 255921      | Rigid extension with quick-close nozzle (255793)         |




# METER DISPENSE CONSOLES

## ORDERING OPTIONS

### LUBRICANT DISPENSE CONSOLES

Includes upper and lower plates with roller guides and brackets. Hoses not included.

|  | Part Number | Description                | Package Includes              |                          |
|-----------------------------------------------------------------------------------|-------------|----------------------------|-------------------------------|--------------------------|
|                                                                                   |             |                            | Dispense Valve Brackets (qty) | Water Bib Brackets (qty) |
|                                                                                   | 222629      | Six-station console        | 196471 (5)                    | 110236 (1)               |
|                                                                                   | 223448      | Four-station console       | 196471 (3)                    | 110236 (1)               |
|                                                                                   | 222645      | Single add-on fluid module | 196471 (1)                    | -                        |


### LUBRICANT DISPENSE CONSOLES ACCESSORIES

|                                                                                     | Part Number | Description                                          |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------|
|    | 110236      | Water bib bracket                                    |
|   | 110237      | Dispense valve bracket for XD meters                 |
|  | 110285      | Pistol-grip dispense valve bracket                   |
|  | 196471      | Dispense valve bracket for LDP5, EM8 and EM20 meters |
|  | 249440      | Dispense valve bracket for SD/Matrix meters          |



# DISPENSE CONSOLES

## ORDERING OPTIONS

### OIL DISPENSE BAR

|  | Part Number | Description                                                                                                                                             |
|-----------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | 220107      | Modular oil dispense bar supports up to 3 dispense taps (1 included) and optional meters. Add up to two additional dispense valves with tap kit 220112. |

### ACCESSORIES FOR OIL DISPENSE BAR

|  | Part Number | Description                                                                                                         |
|-----------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------|
|                                                                                   | 220112      | Dispenser valve kit for adding dispense valves to modular oil dispense bar.                                         |
|  | Part Number | Description                                                                                                         |
|                                                                                   | 239706      | Meter kit for adding IM5 electronic totalizing meter to dispense valve. Reads in gallons, quarts, pints and liters. |

OIL DISPENSE METERS AND CONTROL VALVES

# GREASE PUMPS

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# GREASE PUMP SELECTION GUIDE

GREASE PUMPS AND PACKAGES

| Pump Family and Fluid Pressure Ratio                                                                                 | Typical Applications                                                                                                                                                                                                                                                            | Annual Usage                | Line Length          | Simultaneous Dispense Points | Approx. Free Flow Rate @ 100 psi | Air Inlet     | Fluid Outlet  | Air Operation Range        | Reference Page                |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------|------------------------------|----------------------------------|---------------|---------------|----------------------------|-------------------------------|
| <b>LD, 50:1</b><br>                 | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Service shops</li> </ul>                                                                                                     | Up to 7,000 lbs (3,175 kg)  | Up to 100 (30.5 m)   | 1                            | 4.5 lbs/min (2 kg/min)           | 1/4 in NPT(F) | 1/4 in NPT(F) | 20-150 psi (1.37-10.3 bar) | 118-124                       |
| <b>Mini Fire-Ball 225, 50:1</b><br> | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | Up to 10,000 lbs (4,535 kg) | Up to 100 (30.5 m)   | 1                            | 1.5 lbs/min (0.7 kg/min)         | 3/8 in NPT(F) | 1/4 in NPT(F) | 40-140 psi (2.8-10 bar)    | 125-128<br>143-146            |
| <b>Fire-Ball 300, 15:1</b><br>     | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | Up to 10,000 lbs (4,535 kg) | Up to 250 ft (76 m)  | 1-2                          | 7.5 lbs/min (3.4 kg/min)         | 3/8 in NPT(F) | 1/4 in NPT(F) | 40-180 psi (2.8-12.5 bar)  | 129-131<br>143-146            |
| <b>Fire-Ball 300, 50:1</b><br>    | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | Up to 10,000 lbs (4,535 kg) | Up to 250 ft (76 m)  | 1-2                          | 7.5 lbs/min (3.4 kg/min)         | 3/8 in NPT(F) | 1/4 in NPT(F) | 30-140 psi (2.1-9.7 bar)   | 129-140<br>132-136<br>143-146 |
| <b>Fireball 425, 10:1</b><br>     | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | > 20,000 lbs (9,072 kg)     | Up to 500 ft (152 m) | 4 or more                    | 29 lbs/min (13.1 kg/min)         | 1/2 in NPT(F) | 1 in NPT(F)   | 40-180 psi (2.8-12.5 bar)  | 137-138<br>144-146            |
| <b>Fire-Ball 425, 50:1</b><br>    | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | > 20,000 lbs (9,072 kg)     | Up to 250 ft (76 m)  | 4 or more                    | 9 lbs/min (4.1 kg/min)           | 1/2 in NPT(F) | 3/8 in NPT(F) | 40-150 psi (2.8-10.3 bar)  | 137-139<br>141-147            |
| <b>Fire-Ball 425, 75:1</b><br>    | <ul style="list-style-type: none"> <li>Automotive dealerships</li> <li>Fast lube centers</li> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | > 20,000 lbs (9,072 kg)     | Up to 500 ft (152 m) | 4 or more                    | 6.5 lbs/min (2.9 kg/min)         | 1/2 in NPT(F) | 3/8 in NPT(F) | 40-100 psi (2.8-7 bar)     | 136-138<br>140-147            |
| <b>GT 750, 36:1</b><br>           | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Mining</li> </ul>                                                                                                               | > 20,000 lbs (9,072 kg)     | Up to 250 ft (76 m)  | 4 or more                    | 32 lbs/min (14.5 kg/min)         | 1/2 in NPT(F) | 1 in NPT(F)   | 40-100 psi (2.8-7 bar)     | 148-149                       |



| Pump Family and Fluid Pressure Ratio                                                                          | Typical Applications                                                                                                                                                         | Annual Usage            | Air Inlet     | Fluid Outlet    | Air Operation Range  | Reference Page     |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|-----------------|----------------------|--------------------|
| <b>Check-Mate 14:1</b><br>   | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 20,000 lbs (9,072 kg) | 3/4 in NPT(F) | 1-1/2 in NPT(M) | 0-100 psi (0-7 bar)  | 150-151<br>153-154 |
| <b>Check-Mate 26:1</b><br>   | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 20,000 lbs (9,072 kg) | 3/4 NPT(F)    | 1-1/2 in NPT(M) | 0-100 psi (0-7 bar)  | 150-151<br>154     |
| <b>Check-Mate 29:1</b><br>   | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 20,000 lbs (9,072 kg) | 3/4 NPT(F)    | 1 in NPT(F)     | 0-100 psi (0-7 bar)  | 150-151<br>154     |
| <b>Check-Mate 55:1</b><br>  | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 20,000 lbs (9,072 kg) | 3/4 NPT(F)    | 1 in NPT(F)     | 0-100 psi (0-7 bar)  | 150<br>152-154     |
| <b>Check-Mate 63:1</b><br> | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 20,000 lbs (9,072 kg) | 3/4 NPT(F)    | 3/4 in NPT(M)   | 0-72 psi (0-4.9 bar) | 150<br>152-154     |
| <b>Check-Mate 68:1</b><br> | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>In-plant large runs</li> <li>Large volume lubricant transfer</li> <li>Mining remote fill</li> </ul> | > 20,000 lbs (9,072 kg) | 3/4 NPT(F)    | 1 in NPT(F)     | 0-78 psi (0-5.4 bar) | 150<br>152-154     |

| Pump Family and Fluid Pressure Ratio                                                                         | Typical Applications                                                                                                                                                                                                 | Maximum Grease Output Flow Rate | Maximum Grease Output Pressure | Hydraulic Inlet (Supply)   | Hydraulic Outlet (Return) | Grease Outlet | Maximum Hydraulic Inlet Pressure | Reference Page |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------|----------------------------|---------------------------|---------------|----------------------------------|----------------|
| <b>Dyna-Star 5:1</b><br>  | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | 4 lb/min (1.8 kg/min)           | 7,500 psi (517 bar)            | 3/8 in NPT(F)              | 3/4 in NPT(F)             | 1/2 in NPT(F) | 1,500 psi (102 bar)              | 155-156        |
| <b>Dyna-Star 10:1</b><br> | <ul style="list-style-type: none"> <li>Fleet service facilities</li> <li>Heavy-duty dealerships</li> <li>In-plant</li> <li>Lube trucks</li> <li>Lubricant transfer</li> <li>Mining</li> <li>Service shops</li> </ul> | 1.1 lb/min (0.5 kg/min)         | 7,500 psi (517 bar)            | 3/4 in -16 JIC (37° Flare) | 3/4 in NPT(F)             | 1/2 in NPT(F) | 600 psi (41 bar)                 | 155-156        |

# LD SERIES™ 50:1 GREASE PUMPS

## DURABLE AND HARDWORKING

Stay ahead of the competition with LD Series pumps. These affordable and full-featured pumps are designed for lower-volume (up to 7,000 lb/year) applications. LD pumps are fine-tuned for a compact, flexible and durable solution.

### Three-Inch Air Motor

Provides more power to create better flow.

### Modular Air Valve

Air inlet and exhaust locations are easy to configure with just four bolts for simple, hassle-free installations.

### Pilot Valves

Patented self-cleaning design increases reliability in dirty air environments and minimizes pressure drop with rapid changeovers for reduced stalling and smoother flow.

### Engineered for Durability

Patented cup and plate design eliminates the need for O-rings that wear out faster, for a more durable, longer-lasting solution.

## TYPICAL APPLICATIONS

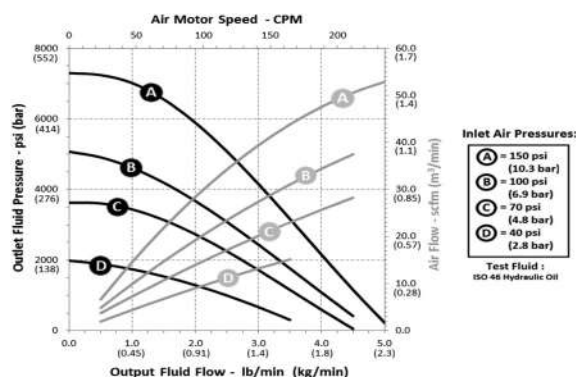
- Automotive dealerships
- Fast lube centers
- Service shops
- Lube trucks

## TYPICAL FLUIDS

- Grease up to NLGI #2

## PUMP PERFORMANCE

### LD SERIES 50:1 PUMPS





## TECHNICAL SPECIFICATIONS

|                                                 |                                                                                                   |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Fluid Pressure Ratio                            | 50:1                                                                                              |
| Air Motor Effective Diameter                    | 3 in (76.2 mm)                                                                                    |
| Annual Usage                                    | Up to 7,000 lb (3,175 kg)                                                                         |
| Maximum Fluid Working Pressure                  | 7,500 psi (517 bar / 51.7 MPa)                                                                    |
| Approximate Free Flow Rate @ 100 psi            | 4.5 lb/min (2 kg/min)                                                                             |
| Output per Cycle                                | 0.34 oz (9.7 g)                                                                                   |
| Approximate Air Use and Flow @ 100 psi (80 cpm) | 16 @ 1.7 lb/min (0.45 @ 0.77 kg/min)                                                              |
| Air Inlet                                       | 1/4 in NPT(F)                                                                                     |
| Fluid Outlet                                    | 1/4 in NPT(F)                                                                                     |
| Air Operation Range                             | 20 psi to 150 psi (1.37 bar to 10.3 bar)                                                          |
| Max Recommended Pump Speed                      | 120 cpm                                                                                           |
| Cycles per Pound (Kg)                           | 47 cpp (103 cpk)                                                                                  |
| Wetted Parts                                    | Steel, brass, nitrile rubber, polyurethane, UHMWPE, acetal                                        |
| Sound Pressure Level                            | 72.9 dB(A)                                                                                        |
| Sound Power Level                               | 82 dB(A)                                                                                          |
| Approximate Weight                              | 35 lb drum – 11.2 lb (5.1 kg)<br>120 lb drum – 15.0 lb (6.8 kg)<br>400 lb drum – 17.0 lb (7.7 kg) |
| Instruction Manual                              | 3A1334                                                                                            |

## ORDERING OPTIONS

### LD SERIES 50:1 PUMPS

| Part Number | Description              |
|-------------|--------------------------|
| 24G600      | For 35 lb (16 kg) pail   |
| 24G603      | For 120 lb (55 kg) drum  |
| 24G606      | For 400 lb (180 kg) drum |

# LD SERIES 50:1 GREASE PUMP PACKAGES

## ORDERING OPTIONS

### 35 LB GREASE PACKAGES



|                    |                                                                             |                                                                                               |                                                                             |
|--------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Package Number     | 24J030                                                                      | 26C169                                                                                        | 25C549                                                                      |
| Ratio              | 50:1                                                                        | 50:1                                                                                          | 50:1                                                                        |
| Type of Package    | Stationary                                                                  | Stationary                                                                                    | Mobile                                                                      |
| Container Size     | 35 lb (16 kg)                                                               | 35 lb (16 kg)                                                                                 | 35 lb (16 kg)                                                               |
| Pump Part Number   | 24G600                                                                      | 24G600                                                                                        | 24G600                                                                      |
| Hose Kit           | 24H862                                                                      | -                                                                                             | 24H862                                                                      |
| Hose Sizes         | Grease<br>1/4 in ID x 6 ft (1.8 m)<br>Air/Water<br>3/8 in ID x 6 ft (1.8 m) | Grease - Whip<br>1/8 in x 1/8 in x 30 in (0.8 m)<br>Grease<br>1/4 in x 3/8 in x 20 ft (6.1 m) | Grease<br>1/4 in ID x 6 ft (1.8 m)<br>Air/Water<br>3/8 in ID x 6 ft (1.8 m) |
| Follower Plate     | 24F901                                                                      | 24F901                                                                                        | 24F901                                                                      |
| Drum Cover         | 24F904                                                                      | 24F904                                                                                        | 24F904                                                                      |
| Grease Valve       | 129581                                                                      | 129581                                                                                        | 129581                                                                      |
| Z-Swivel           | 129591                                                                      | 129591                                                                                        | 129591                                                                      |
| Fitting(s)         | -                                                                           | 157705                                                                                        | -                                                                           |
| Air Regulator      | -                                                                           | 24H420                                                                                        | -                                                                           |
| Air Filter         | -                                                                           | 106148                                                                                        | -                                                                           |
| Portable Base      | -                                                                           | -                                                                                             | 131183                                                                      |
| Instruction Manual | 3A1335                                                                      | 3A1335                                                                                        | 3A1335                                                                      |



## ORDERING OPTIONS

### 120 LB GREASE PACKAGES



|                       |                                                                                   |                                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                        |
|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------|
| Package Number        | 24J036                                                                            | 26C170                                                                                              | 25C548                                                                            | 24J048                                                                            | 24J060                                                                            | 25N618                                 |
| Ratio                 | 50:1                                                                              | 50:1                                                                                                | 50:1                                                                              | 50:1                                                                              | 50:1                                                                              | 50:1                                   |
| Type of Package       | Stationary                                                                        | Stationary                                                                                          | Mobile                                                                            | Mobile                                                                            | Mobile                                                                            | Mobile                                 |
| Container Size        | 120 lb (54 kg)                                                                    | 120 lb (54 kg)                                                                                      | 120 lb (54 kg)                                                                    | 120 lb (54 kg)                                                                    | 120 lb (54 kg)                                                                    | 120 lb (54 kg)                         |
| Pump Part Number      | 24G603                                                                            | 24G603                                                                                              | 24G603                                                                            | 24G603                                                                            | 24G603                                                                            | 24G603                                 |
| Hose Kit              | 24H862                                                                            | -                                                                                                   | 24H862                                                                            | 24H862                                                                            | 24J501                                                                            | -                                      |
| Hose Sizes            | Grease<br>1/4 in ID x 6 ft<br>(1.8 m)<br>Air/Water<br>3/8 in ID x 6 ft<br>(1.8 m) | Grease – Whip<br>1/8 in x 1/8 in x 30 in<br>(0.8 m)<br>Grease<br>1/4 in x 3/8 in x 20 ft<br>(6.1 m) | Grease<br>1/4 in ID x 6 ft<br>(1.8 m)<br>Air/Water<br>3/8 in ID x 6 ft<br>(1.8 m) | Grease<br>1/4 in ID x 6 ft<br>(1.8 m)<br>Air/Water<br>3/8 in ID x 6 ft<br>(1.8 m) | Grease<br>1/4 in ID x 6 ft<br>(1.8 m)<br>Air/Water<br>3/8 in ID x 6 ft<br>(1.8 m) | Grease<br>1/4 in ID x 12 ft<br>(3.7 m) |
| Follower Plate        | 24F902                                                                            | 24F902                                                                                              | 24F902                                                                            | 24F902                                                                            | 24F902                                                                            | 24F902                                 |
| Drum Cover            | 24F905                                                                            | 24F905                                                                                              | 24F905                                                                            | 24F905                                                                            | 24F905                                                                            | 24F905                                 |
| Grease Valve          | 129581                                                                            | 129581                                                                                              | 129581                                                                            | 129581                                                                            | 129581                                                                            | 129581                                 |
| Z-Swivel              | 129591                                                                            | 129591                                                                                              | 129591                                                                            | 129591                                                                            | 129591                                                                            | 129591                                 |
| Fitting(s)            | -                                                                                 | 157705                                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 165198 / 169970                        |
| Air Regulator         | -                                                                                 | 24H420                                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 24H420                                 |
| Air Filter            | -                                                                                 | 106148                                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                      |
| Portable Base         | -                                                                                 | -                                                                                                   | 131184                                                                            | 24H422                                                                            | 24H422                                                                            | 131184                                 |
| Hose Reel             | -                                                                                 | -                                                                                                   | -                                                                                 | -                                                                                 | LD                                                                                | -                                      |
| Hose Size             | -                                                                                 | -                                                                                                   | -                                                                                 | -                                                                                 | 1/4 in x 35 ft                                                                    | -                                      |
| Hose Reel Part Number | -                                                                                 | -                                                                                                   | -                                                                                 | -                                                                                 | HEH006                                                                            | -                                      |
| Instruction Manual    | 3A1335                                                                            | 3A1335                                                                                              | 3A1335                                                                            | 3A1335                                                                            | 3A1335                                                                            | 3A1335                                 |

# LD SERIES 50:1 GREASE PUMP PACKAGES

## ORDERING OPTIONS

### 400 LB GREASE PACKAGES



|                    |                                                                             |                                                                                               |                                                                             |                                                                             |
|--------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Package Number     | 24J042                                                                      | 26C171                                                                                        | 24J054                                                                      | 24J066                                                                      |
| Ratio              | 50:1                                                                        | 50:1                                                                                          | 50:1                                                                        | 50:1                                                                        |
| Type of Package    | Stationary                                                                  | Stationary                                                                                    | Mobile                                                                      | Mobile                                                                      |
| Container Size     | 400 lb (180 kg)                                                             | 400 lb (180 kg)                                                                               | 400 lb (180 kg)                                                             | 400 lb (180 kg)                                                             |
| Pump Part Number   | 24G606                                                                      | 24G606                                                                                        | 24G606                                                                      | 24G606                                                                      |
| Hose Kit           | 24H862                                                                      | -                                                                                             | 24H862                                                                      | 24J501                                                                      |
| Hose Sizes         | Grease<br>1/4 in ID x 6 ft (1.8 m)<br>Air/Water<br>3/8 in ID x 6 ft (1.8 m) | Grease – Whip<br>1/8 in x 1/8 in x 30 in (0.8 m)<br>Grease<br>1/4 in x 3/8 in x 20 ft (6.1 m) | Grease<br>1/4 in ID x 6 ft (1.8 m)<br>Air/Water<br>3/8 in ID x 6 ft (1.8 m) | Grease<br>1/4 in ID x 6 ft (1.8 m)<br>Air/Water<br>3/8 in ID x 6 ft (1.8 m) |
| Follower Plate     | 24F903                                                                      | 24F903                                                                                        | 24F903                                                                      | 24F903                                                                      |
| Drum Cover         | 24F906                                                                      | 24F906                                                                                        | 24F906                                                                      | 24F906                                                                      |
| Grease Valve       | 129581                                                                      | 129581                                                                                        | 129581                                                                      | 129581                                                                      |
| Z-Swivel           | 129591                                                                      | 129591                                                                                        | 129591                                                                      | 129591                                                                      |
| Fitting(s)         | -                                                                           | 157705                                                                                        | -                                                                           | -                                                                           |
| Air Regulator      | -                                                                           | 24H420                                                                                        | -                                                                           | -                                                                           |
| Air Filter         | -                                                                           | 106148                                                                                        | -                                                                           | -                                                                           |
| Type of Reel       | -                                                                           | -                                                                                             | -                                                                           | LDX                                                                         |
| Reel Size          | -                                                                           | -                                                                                             | -                                                                           | 3/8 in x 50 ft                                                              |
| Reel Part Number   | -                                                                           | -                                                                                             | -                                                                           | HEH006                                                                      |
| Portable Base      | -                                                                           | -                                                                                             | 24F915                                                                      | 24F915                                                                      |
| Instruction Manual | 3A1335                                                                      | 3A1335                                                                                        | 3A1335                                                                      | 3A1335                                                                      |

# LD SERIES 50:1 GREASE PUMP ACCESSORIES



## LD PRO-SHOT™ NON-METERED GREASE VALVES



- Rugged design for harsh environments
- Pressure-assisted trigger for ease of operation
- Easy adjustment with top locking nut
- 6 in steel extension with heavy-duty coupler

### TECHNICAL SPECIFICATIONS

|              |                                |
|--------------|--------------------------------|
| Pressure     | 7,500 psi (517 bar / 51.7 MPa) |
| Wetted Parts | Steel, nitrile rubber, PTFE    |
| Inlet Size   | 1/4 in                         |

### ORDERING OPTIONS

| Part Number | Description                          |
|-------------|--------------------------------------|
| 129581      | LD Pro Shot Grease Valve, 1/4 in NPT |

## LD Z-SWIVEL



- Swivels to prevent twist damage to hoses
- Constructed of heavy-duty steel and ball bearings for smooth and unrestricted movement

### TECHNICAL SPECIFICATIONS

|            |                                |
|------------|--------------------------------|
| Pressure   | 6,000 psi (413 bar / 41.3 MPa) |
| Inlet Size | 1/4 in                         |


### ORDERING OPTIONS

| Part Number | Description          |
|-------------|----------------------|
| 129591      | Z-swivel, 1/4 in NPT |



# LD SERIES 50:1 GREASE PUMP ACCESSORIES

## ORDERING OPTIONS


### ADJUSTABLE BUNG ADAPTER

|  | Part Number | Description                          |
|-----------------------------------------------------------------------------------|-------------|--------------------------------------|
|                                                                                   | 24P623      | Adjustable bung adapter for LD pumps |


### AIR REGULATORS

|  | Part Number | Description                                                                       |
|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------|
|                                                                                   | 24H420      | Mini air pressure regulator with gauge, 1/4 in NPT x 3/8 in NPT, self-relieving   |
|  | 133215      | Mini air filter-regulator with gauge, 1/4 in NPT, self-relieving, semi-auto drain |


### CARTS

|  | Part Number | Description                                                                                |
|------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------|
|                                                                                    | 24H422      | Drum cart with pneumatic wheels for 120 lb drums; includes chain for securing drum to cart |
|                                                                                    | 24F915      | Drum cart with pneumatic wheels for 400 lb drums; includes chain for securing drum to cart |


### DRUM COVERS

|  | Part Number | Description                               |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------|
|                                                                                     | 24F904      | Cover for 35 lb (16 kg) pails             |
|                                                                                     | 24F905      | Cover for open-head 120 lb (54 kg) drums  |
|                                                                                     | 24F906      | Cover for open-head 400 lb (182 kg) drums |



### LD DRUM DOLLIES

|  | Part Number | Description                 |
|-------------------------------------------------------------------------------------|-------------|-----------------------------|
|                                                                                     | 131183      | Drum Dolly, 35 lb (16 kg)   |
|                                                                                     | 131184      | Drum Dolly, 120 lb (54 kg)  |
|                                                                                     | 129645      | Drum Dolly, 400 lb (182 kg) |

### FOLLOWER PLATES

|  | Part Number | Description                              |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------|
|                                                                                     | 24F901      | Follower plate for 35 lb (16 kg) pails   |
|                                                                                     | 24F902      | Follower plate for 120 lb (54 kg) drums  |
|                                                                                     | 24F903      | Follower plate for 400 lb (182 kg) drums |

### HOSE AND FITTING KITS

|                                                                                     | Part Number | Description                  | Includes    |                                                        |          |               |         |
|-------------------------------------------------------------------------------------|-------------|------------------------------|-------------|--------------------------------------------------------|----------|---------------|---------|
|                                                                                     |             |                              | Grease Hose | Grease Hose Size                                       | Air Hose | Air Hose Size | Fitting |
|  | 24H862      | 6 ft LD grease pump hose kit | 24H606      | 1/4 in NPT(M) x 1/4 in NPT(M) x 6 ft                   | 24H858   | 3/8 in x 6 ft | 156823  |
|  | 24J501      | 6 ft LD grease pump hose kit | 24J487      | 1/4 in NPT(M) x 1/4 in NPT(M) (with 90° swivel) x 6 ft | 24H858   | 3/8 in x 6 ft | 156823  |



# MINI FIRE-BALL® 225 GREASE PUMPS

## PERFECT FOR MEDIUM PRESSURE, LOW VOLUME APPLICATIONS

You can't afford downtime, especially when your shop is small. The Mini Fire-Ball 225 is designed with fewer moving parts, which means less wear and tear and reduced downtime, allowing you to run a more profitable business.



### Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

### Fewer Repairs

Fewer moving parts in the air motor assembly means less downtime and low repair cost.

### Extended Seal Life

In-line pump design aligns the air motor piston and fluid piston rods to maximize seal life.

### Superior Sealing

Non-metallic poppet valves offer positive sealing performance, even with contaminated "dirty" air environments for long life without repair.

### Corrosion-Resistant

Corrosion-resistant design utilizes liquid salt nitriding, nickel plating, stainless steel, aluminum and chrome on key components for longer life.

## TYPICAL APPLICATIONS

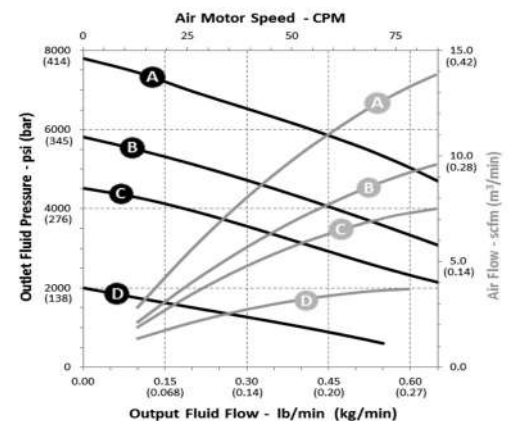
- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

## TYPICAL FLUIDS

- Grease up to NLGI #2

## PUMP PERFORMANCE

### MINI FIRE-BALL 225 PUMPS



Inlet Air Pressures:

- A = 140 psi (9.7 bar)
- B = 100 psi (6.9 bar)
- C = 80 psi (5.5 bar)
- D = 40 psi (2.8 bar)

Test Fluid : NLGI #2 Grease

# MINI FIRE-BALL® 225 GREASE PUMPS

## TECHNICAL SPECIFICATIONS

|                                                 |                                                                                                   |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Fluid Pressure Ratio                            | 50:1                                                                                              |
| Air Motor Effective Diameter                    | 2.25 in (57.2 mm)                                                                                 |
| Annual Usage                                    | Up to 10,000 lb (4,535 kg)                                                                        |
| Maximum Fluid Working Pressure                  | 8,400 psi (578 bar / 57.8 MPa)                                                                    |
| Approximate Free Flow Rate @ 100 psi            | 1.5 lb/min (0.7 kg/min)                                                                           |
| Output per Cycle                                | 0.12 oz (3.5 g)                                                                                   |
| Continuous Duty Flow Rate                       | 0.32 lb/min (0.15 kg/min)                                                                         |
| Approximate Air Use and Flow @ 100 psi (80 cpm) | 9.3 @ 0.62 lb/min (0.26 @ 0.28 kg/min)                                                            |
| Air Inlet                                       | 3/8 in NPT(F)                                                                                     |
| Fluid Outlet                                    | 1/4 in NPT(F)                                                                                     |
| Air Operation Range                             | 40 psi to 140 psi (3 bar to 10 bar)                                                               |
| Max Recommended Pump Speed                      | 100 cpm                                                                                           |
| Cycles per Pound (Kg)                           | 130 cpp (287 cpk)                                                                                 |
| Wetted Parts                                    | Carbon steel, zinc plating, brass, polyurethane, ultra-high molecular weight polyethylene, Buna-N |
| Sound Pressure Level                            | 77.8 dB(A)                                                                                        |
| Sound Power Level                               | 85.6 dB(A)                                                                                        |
| Approximate Weight                              | 15 lb (6.8 kg)                                                                                    |
| Instruction Manual                              | 309966                                                                                            |

## ORDERING OPTIONS

### MINI FIRE-BALL 50:1 PUMPS

| Part Number | Description              |
|-------------|--------------------------|
| 246909      | For 35 lb (16 kg) pail   |
| 246780      | For 120 lb (55 kg) drum  |
| 246781      | For 400 lb (180 kg) drum |

GREASE PUMPS AND PACKAGES

# MINI FIRE-BALL® 225 GREASE PUMP PACKAGES



## ORDERING OPTIONS

### 35 LB AND 50 LB GREASE PACKAGES



|                       |                                 |                                 |                                 |
|-----------------------|---------------------------------|---------------------------------|---------------------------------|
| Package Number        | 246910*                         | 246911*                         | 246913*                         |
| Ratio                 | 50:1                            | 50:1                            | 50:1                            |
| Type of Package       | Portable pail dispenser         | Stationary pail dispenser       | Cart-mounted pail dispenser     |
| Container Size        | 35 lb to 50 lb (16 kg to 23 kg) | 35 lb to 50 lb (16 kg to 23 kg) | 35 lb to 50 lb (16 kg to 23 kg) |
| Container             | -                               | 204134                          | 204134                          |
| Pump Part Number      | 246909                          | 246909                          | 246909                          |
| Fluid Hose Size       | 1/4 in x 12 ft                  | 1/4 in x 12 ft                  | 1/4 in x 12 ft                  |
| Dispense Hose Kit     | 236058                          | 236058                          | 236058                          |
| Dispense Kit Includes | 12 ft Hose                      | 109151                          | 109151                          |
|                       | Air Coupler                     | 114558                          | 114558                          |
|                       | Air Fitting                     | 169971                          | 169971                          |
|                       | Z-Swivel                        | 202577                          | 202577                          |
|                       | Pro-Shot Valve                  | 242056                          | 242056                          |
| Follower Plate        | 24F901                          | **                              | **                              |
| Drum Cover            | 222059                          | 24R350                          | 24R350                          |
| Portable Base         | -                               | -                               | 203650                          |
| Instruction Manual    | 309967                          | 309967                          | 309967                          |

\*Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.

\*\*Order follower plate (220653) separately for 35 lb (16 kg) pails or (220654) for 70 lb (32 kg) bulk.



246911

# MINI FIRE-BALL® 225 GREASE PUMP PACKAGES

## ORDERING OPTIONS

### 120 LB AND 400 LB GREASE PACKAGES

|                       |                           |                                      |                                       |                           |                 |
|-----------------------|---------------------------|--------------------------------------|---------------------------------------|---------------------------|-----------------|
|                       |                           |                                      |                                       |                           |                 |
| Package Number        | 246914*                   | 246915*                              | 246916*                               | 246917*                   |                 |
| Ratio                 | 50:1                      | 50:1                                 | 50:1                                  | 50:1                      |                 |
| Type of Package       | Stationary supply package | Portable package with<br>caster base | Portable package with<br>2-wheel cart | Stationary supply package |                 |
| Container Size        | 120 lb (55 kg)            | 120 lb (55 kg)                       | 120 lb (55 kg)                        | 400 lb (180 kg)           |                 |
| Pump Part Number      | 246780                    | 246780                               | 246780                                | 246781                    |                 |
| Fluid Hose Size       | 1/4 in x 6 ft             | 1/4 in x 12 ft                       | 1/4 in x 12 ft                        | 1/4 in x 6 ft             |                 |
| Dispense Hose Kit     | 222072                    | 236058                               | 236058                                | 222072                    |                 |
| Dispense Kit Includes | 12 ft Hose                | -                                    | 109151                                | 109151                    | -               |
|                       | 6 ft Hose                 | 109150                               | -                                     | -                         | 109150          |
|                       | 6 ft Coupled Hose         | 203320                               | -                                     | -                         | 203320          |
|                       | Air Coupler               | -                                    | 114558                                | 114558                    | -               |
|                       | Air Fitting               | -                                    | 169971                                | 169971                    | -               |
|                       | Z-Swivel                  | -                                    | 202577                                | 202577                    | -               |
|                       | 90° Fitting(s)            | 155494 / 155541                      | -                                     | -                         | 155494 / 155541 |
|                       | Pro-Shot Valve            | -                                    | 242056                                | 242056                    | -               |
| Follower Plate        | 24F902                    | 24F902                               | 24F902                                | 24F903                    |                 |
| Drum Cover            | 24R350                    | 24R350                               | 24R350                                | 200326                    |                 |
| Portable Base         | -                         | 203622                               | 203650                                | -                         |                 |
| Instruction Manual    | 309967                    | 309967                               | 309967                                | 309967                    |                 |

\*Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.



# FIRE-BALL® 300 GREASE PUMPS

## IDEAL FOR SHOPS WITH GREASE TRANSFER

Install the Fire-Ball 300 in grease dispense applications. A differential air motor ensures smooth the double-acting pump design provides reliable grease flow and accurate dispense.



### Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

### Fewer Repairs

Fewer moving parts in the air motor assembly means less downtime and low repair cost.

### Extended Seal Life

In-line pump design aligns the air motor piston and fluid piston rods to maximize seal life.

### Superior Sealing

Non-metallic poppet valves offer positive sealing performance, even with contaminated "dirty" air environments for long life without repair.

### Corrosion-Resistant

Corrosion-resistant design utilizes liquid salt nitriding, nickel plating, stainless steel, aluminum and chrome on key components for longer life.

## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

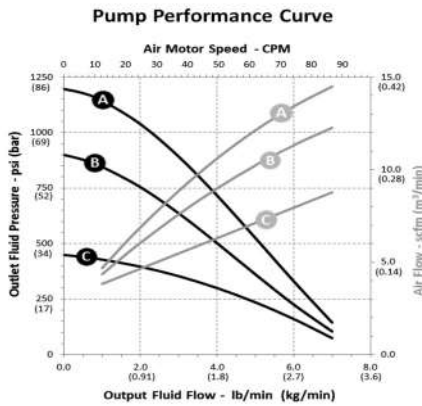
## TYPICAL FLUIDS

- Grease up to NLGI #2

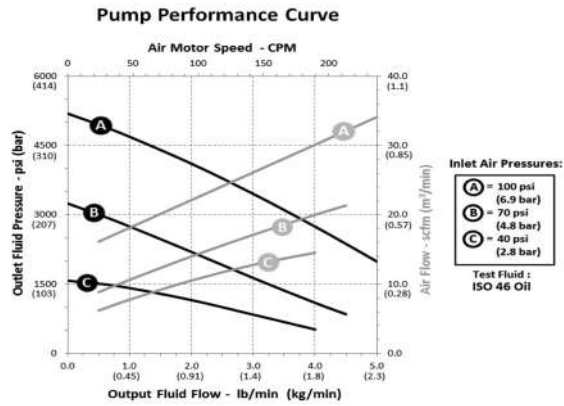
# FIRE-BALL® 300 GREASE PUMPS

## PUMP PERFORMANCE

### FIRE-BALL 300 15:1 PUMPS



### FIRE-BALL 300 50:1 PUMPS



## TECHNICAL SPECIFICATIONS

|                                                 | Fire-Ball 300 15:1                                                   | Fire-Ball 300 50:1                                           |
|-------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------|
| Fluid Pressure Ratio                            | 15:1                                                                 | 50:1                                                         |
| Air Motor Effective Diameter                    | 3 in (76.2 mm)                                                       | 3 in (76.2 mm)                                               |
| Annual Usage                                    | Up to 10,000 lb (4,535 kg)                                           | Up to 10,000 lb (4,535 kg)                                   |
| Maximum Fluid Working Pressure                  | 2,700 psi (186 bar / 18.6 MPa)                                       | 8,400 psi (579 bar / 57.9 MPa)                               |
| Approximate Free Flow Rate @ 100 psi            | 7.5 lb/min (3.4 kg/min)                                              | 7.5 lb/min (3.4 kg/min)                                      |
| Output per Cycle                                | 1.29 oz (36.6 g)                                                     | 0.34 oz (9.5 g)                                              |
| Continuous Duty Flow Rate                       | 0.7 lb/min (0.32 kg/min)                                             | 1.19 lb/min (0.54 kg/min)                                    |
| Approximate Air Use and Flow @ 100 psi (80 cpm) | 14 @ 6.5 lb/min (0.40 @ 2.9 kg/min)                                  | 21 @ 1.7 lb/min (0.59 @ 0.77 kg/min)                         |
| Air Inlet                                       | 3/8 in NPT(F)                                                        | 3/8 in NPT(F)                                                |
| Fluid Outlet                                    | 1/4 in NPT(F)                                                        | 1/4 in NPT(F)                                                |
| Air Operation Range                             | 40 psi to 180 psi (2.8 bar to 12.5 bar)                              | 30 psi to 140 psi (3.0 bar to 9.7 bar)                       |
| Max Recommended Pump Speed                      | 66 cpm                                                               | 76 cpm                                                       |
| Cycles per Pound (Kg)                           | 12.4 cpp (27 cpk)                                                    | 47.4 cpp (105 cpk)                                           |
| Wetted Parts                                    | Carbon steel, brass, copper, aluminum, PTFE, nitrile rubber, leather | Steel, brass, aluminum, acetal, nitrile rubber, polyurethane |
| Sound Pressure Level                            | 77.8 dB(A)                                                           | 77.8 dB(A)                                                   |
| Sound Power Level                               | 85.6 dB(A)                                                           | 85.6 dB(A)                                                   |
| Approximate Weight                              | 22 lb (10 kg)                                                        | 22 lb (10 kg)                                                |
| Instruction Manual                              | 306531                                                               | 308883                                                       |

## ORDERING OPTIONS

### FIRE-BALL 300 GREASE PUMPS

| Part Number | Ratio | Description                              |
|-------------|-------|------------------------------------------|
| 206405      | 15:1  | For 35 lb (16 kg) pail                   |
| 206699      | 15:1  | For 120 lb (55 kg) drum                  |
| 206700      | 15:1  | For 400 lb (180 kg) drum                 |
| 239877      | 50:1  | For 35 lb or 70 lb (16 kg or 32 kg) pail |
| 239887      | 50:1  | For 120 lb (55 kg) drum                  |
| 239888      | 50:1  | For 400 lb (180 kg) drum                 |

# FIRE-BALL® 300 GREASE PUMP PACKAGES



## ORDERING OPTIONS

### 15:1 GREASE PUMP PACKAGES



|                       |                           |                           |                              |                |
|-----------------------|---------------------------|---------------------------|------------------------------|----------------|
| Package Number        | 222078                    | 220170                    | 220171                       |                |
| Type of Package       | Stationary Pail Dispenser | Stationary Drum Dispenser | Cover-Mounted Drum Dispenser |                |
| Ratio                 | 15:1                      | 15:1                      | 15:1                         |                |
| Container Size        | 35 lb (16 kg)             | 120 lb (55 kg)            | 400 lb (180 kg)              |                |
| Pump Part Number      | 206405                    | 206699                    | 206700                       |                |
| Dispense Kit          | 222080                    | 222081                    | 222081                       |                |
| Dispense Kit Includes | Fluid Hose                | 1/4 in x 15 ft            | 1/4 in x 25 ft               | 1/4 in x 25 ft |
|                       | Hose Part Number          | 109165                    | 109167                       | 109167         |
|                       | Air Coupler               | 110198                    | 110198                       | 110198         |
|                       | Air Fitting               | -                         | 169971                       | 169971         |
|                       | Closed Nipple             | 156849                    | 156849                       | 156849         |
|                       | Z-Swivel                  | 202577                    | 202577                       | 202577         |
|                       | Fitting(s)                | 169971                    | -                            | -              |
|                       | Dispenser                 | Pro-Shot                  | Pro-Shot                     | Pro-Shot       |
|                       | Dispenser Part Number     | 242056                    | 242056                       | 242056         |
|                       | Air Regulator             | 110234                    | 110234                       | 110234         |
|                       | Air Pressure Gauge        | 100960                    | 100960                       | 100960         |
| Drum Cover            | 222058                    | 204574                    | 200326                       |                |
| Instruction Manual    | 307882                    | 307882                    | 307882                       |                |

# FIRE-BALL® 300 GREASE PUMP PACKAGES

## ORDERING OPTIONS

### 50:1 25 TO 50 LB GREASE PUMP PACKAGES



|                       |                                    |                                    |                                    |                                    |                                    |                          |                |
|-----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------|----------------|
| Package Number        | 222069*                            | 245694*                            | 225827*                            | 225773*                            | 245695*                            | 226012*                  |                |
| Type of Package       | Portable pail dispenser            | Portable pail dispenser            | Stationary pail dispenser          | Cart-mounted pail dispenser        | Cart-mounted pail dispenser        | Cart-mounted pail topper |                |
| Ratio                 | 50:1                               | 50:1                               | 50:1                               | 50:1                               | 50:1                               | 50:1                     |                |
| Container Size        | 25 lb to 35 lb<br>(11 kb to 16 kg) | 25 lb to 35 lb<br>(11 kb to 16 kg) | 35 lb to 50 lb<br>(16 kg to 23 kg) | 35 lb to 50 lb<br>(16 kg to 23 kg) | 35 lb to 50 lb<br>(16 kg to 23 kg) | 35 lb (16 kg)            |                |
| Pump Part Number      | 239877                             | 239877                             | 239877                             | 239877                             | 239877                             | 239877                   |                |
| Dispense Kit          | 222070                             | 245697                             | 222070                             | 222070                             | 245697                             | 222070                   |                |
| Dispense Kit Includes | Fluid Hose                         | 1/4 in x 12 ft                     | 1/4 in x 12 ft                     | 1/4 in x 12 ft                     | 1/4 in x 12 ft                     | 1/4 in x 12 ft           | 1/4 in x 12 ft |
|                       | Hose Part Number                   | 109151                             | 109151                             | 109151                             | 109151                             | 109151                   | 109151         |
|                       | Air Coupler                        | 114558                             | 114558                             | 114558                             | 114558                             | 114558                   | 114558         |
|                       | Air Fitting                        | 169971                             | 169971                             | 169971                             | 169971                             | 169971                   | 169971         |
|                       | Z-Swivel                           | 202577                             | 202577                             | 202577                             | 202577                             | 202577                   | 202577         |
|                       | Dispenser                          | Pro-Shot                           | Accu-Shot                          | Pro-Shot                           | Pro-Shot                           | Accu-Shot                | Pro-Shot       |
|                       | Dispenser Part Number              | 242056                             | 233807                             | 242056                             | 242056                             | 233807                   | 242056         |
| Follower Plate        | 24F901                             | 220653                             | **                                 | **                                 | **                                 | -                        |                |
| Drum Cover            | 222059                             | 222059                             | 24R350                             | 24R350                             | 204574                             | -                        |                |
| Holster               | -                                  | -                                  | 203976                             | 203976                             | 203976                             | 203976                   |                |
| Container             | -                                  | -                                  | 204134                             | 204134                             | 204134                             | -                        |                |
| Portable Base         | -                                  | -                                  | -                                  | 203650                             | 203650                             | 203650                   |                |
| Elevator              | -                                  | -                                  | -                                  | -                                  | -                                  | 203664                   |                |
| Inductor Plate        | -                                  | -                                  | -                                  | -                                  | -                                  | 204351                   |                |
| Instruction Manual    | 307878                             | 307878                             | 307878                             | 307878                             | 307878                             | 307878                   |                |

\*Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.







\*\*Order follower plate 220654 separately, if needed.

GREASE PUMPS AND PACKAGES



## ORDERING OPTIONS

### 50:1 120 LB GREASE PUMP PACKAGES

|                       |  |                                                                                   |  |                                                                                     |  |                                                                                     |                |
|-----------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|
|                       |  |  |   |  |  |  |                |
| Package Number        | 225006*                                                                           | 225026*                                                                           | 26C185*                                                                            | 26C186*                                                                             | 245696*                                                                             | 222245*                                                                             |                |
| Type of Package       | Portable with<br>caster base                                                      | Portable with<br>2-wheel cart                                                     | Portable with<br>caster base                                                       | Portable with<br>2-wheel cart                                                       | Portable with<br>2-wheel cart                                                       | Portable with<br>heavy duty cart                                                    |                |
| Ratio                 | 50:1                                                                              | 50:1                                                                              | 50:1                                                                               | 50:1                                                                                | 50:1                                                                                | 50:1                                                                                |                |
| Container Size        | 120 lb (55 kg)                                                                    | 120 lb (55 kg)                                                                    | 120 lb (55 kg)                                                                     | 120 lb (55 kg)                                                                      | 120 lb (55 kg)                                                                      | 120 lb (55 kg)                                                                      |                |
| Pump Part Number      | 239887                                                                            | 239887                                                                            | 239887                                                                             | 239887                                                                              | 239887                                                                              | 239887                                                                              |                |
| Dispense Kits         | 222070                                                                            | 222070                                                                            | 26C183                                                                             | 26C183                                                                              | 245697                                                                              | 222383                                                                              |                |
| Dispense Kit Includes | Fluid Hose                                                                        | 1/4 in x 12 ft                                                                    | 1/4 in x 12 ft                                                                     | 1/4 in x 12 ft                                                                      | 1/4 in x 12 ft                                                                      | 1/4 in x 12 ft                                                                      | 1/4 in x 25 ft |
|                       | Hose Part Number                                                                  | 109151                                                                            | 109151                                                                             | 109151                                                                              | 109151                                                                              | 109151                                                                              | 109154         |
|                       | 6 ft Coupled Hose                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -              |
|                       | Air Coupler                                                                       | 114558                                                                            | 114558                                                                             | 114558                                                                              | 114558                                                                              | 114558                                                                              | 114558         |
|                       | Air Fitting                                                                       | 169971                                                                            | 169971                                                                             | 169971                                                                              | 169971                                                                              | 169971                                                                              | 169971         |
|                       | Z-swivel                                                                          | 202577                                                                            | 202577                                                                             | 202577                                                                              | 202577                                                                              | 202577                                                                              | 202577         |
|                       | Fitting(s)                                                                        | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   | -              |
|                       | Dispenser                                                                         | Pro-Shot                                                                          | Pro-Shot                                                                           | Pro-Shot                                                                            | Pro-Shot                                                                            | Accu-Shot                                                                           | Pro-Shot       |
| Dispenser Part Number | 242056                                                                            | 242056                                                                            | 26C184                                                                             | 26C184                                                                              | 233807                                                                              | 242056                                                                              |                |
| Fluid Hose Size       | See kit above                                                                     | See kit above                                                                     | See kit above                                                                      | See kit above                                                                       | See kit above                                                                       | See kit above                                                                       |                |
| Air Hose Size         | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   |                |
| Meter                 | See kit above                                                                     | See kit above                                                                     | See kit above                                                                      | See kit above                                                                       | See kit above                                                                       | See kit above                                                                       |                |
| Meter Part Number     | See kit above                                                                     | See kit above                                                                     | See kit above                                                                      | See kit above                                                                       | See kit above                                                                       | See kit above                                                                       |                |
| Follower Plate        | 24F902                                                                            | 24F902                                                                            | 24F902                                                                             | 24F902                                                                              | 220654                                                                              | 24F902                                                                              |                |
| Drum Cover            | 24R350                                                                            | 24R350                                                                            | 24R350                                                                             | 24R350                                                                              | 204574                                                                              | 222060                                                                              |                |
| Holster               | 203976                                                                            | 203976                                                                            | 203976                                                                             | 203976                                                                              | 203976                                                                              | -                                                                                   |                |
| Portable Base         | 203622                                                                            | 203650                                                                            | 203622                                                                             | 203650                                                                              | 203650                                                                              | 222243                                                                              |                |
| Elevator              | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   |                |
| Pump Support          | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                   |                |
| Hold Down Kit         | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   | -                                                                                   | 222061                                                                              |                |
| Instruction Manual    | 307878                                                                            | 307878                                                                            | 307878                                                                             | 307878                                                                              | 307878                                                                              | 307878                                                                              |                |

GREASE PUMPS AND PACKAGES

\*Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.

# FIRE-BALL® 300 GREASE PUMP PACKAGES

## ORDERING OPTIONS

### 50:1 120 LB GREASE PUMP PACKAGES (CONT.)



| Package Number        | 225014*               | 222073*                           |   |
|-----------------------|-----------------------|-----------------------------------|---|
| Type of Package       | Stationary supply     | Stationary supply topper-inductor |   |
| Ratio                 | 50:1                  | 50:1                              |   |
| Container Size        | 120 lb (55 kg)        | 120 lb (55 kg)                    |   |
| Pump Part Number      | 239887                | 239887                            |   |
| Dispense Kits         | 222072                | -                                 |   |
| Dispense Kit Includes | Fluid Hose            | 1/4 in x 6 ft                     | - |
|                       | Hose Part Number      | 109150                            | - |
|                       | 6 ft Coupled Hose     | 203320                            | - |
|                       | Air Coupler           | -                                 | - |
|                       | Air Fitting           | -                                 | - |
|                       | Z-swivel              | -                                 | - |
|                       | Fitting(s)            | 155494/155541                     | - |
|                       | Dispenser             | -                                 | - |
|                       | Dispenser Part Number | -                                 | - |
| Fluid Hose Size       | See kit above         | -                                 |   |
| Air Hose Size         | See kit above         | -                                 |   |
| Follower Plate        | 24F902                | -                                 |   |
| Drum Cover            | 24R350                | -                                 |   |
| Holster               | -                     | -                                 |   |
| Portable Base         | -                     | -                                 |   |
| Elevator              | -                     | 204121                            |   |
| Pump Support          | -                     | 222074                            |   |
| Hold Down Kit         | -                     | -                                 |   |
| Instruction Manual    | 307880                | 306523                            |   |

### 50:1 400 LB GREASE PUMP PACKAGES



| Package Number        | 225016*           | 226013*                           |                      |
|-----------------------|-------------------|-----------------------------------|----------------------|
| Type of Package       | Stationary supply | Stationary supply topper-inductor |                      |
| Ratio                 | 50:1              | 50:1                              |                      |
| Container Size        | 400 lb (180 kg)   | 400 lb (180 kg)                   |                      |
| Pump Part Number      | 239888            | 239888                            |                      |
| Hose and Fitting Kits | 222072            | 204467                            |                      |
| Dispense Kit Includes | Fluid Hose        | 1/4 in x 6 ft                     | 1/4 in x 6 ft        |
|                       | Hose Part Number  | 109150                            | 109150               |
|                       | 6 ft Coupled Hose | 203320                            | -                    |
|                       | Fitting(s)        | 155494/155541                     | 100206/156971/205528 |
| Air Hose Size         | 3/8 in x 6 ft     | 3/8 in x 6 ft                     |                      |
| Follower Plate        | 24F903            | -                                 |                      |
| Drum Cover            | 200326            | -                                 |                      |
| Elevator              | -                 | 204385                            |                      |
| Pump Support          | -                 | 204461                            |                      |
| Inductor Plate        | -                 | 204353                            |                      |
| Base                  | -                 | 205339                            |                      |
| Instruction Manual    | 307880            | 306556                            |                      |

\*Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.

\*Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.



## ORDERING OPTIONS

### 50:1 GREASE PUMP LUBE TRUCK PACKAGES



|                       |                   |                 |               |
|-----------------------|-------------------|-----------------|---------------|
| Package Number        | 222085*           | 222071*         |               |
| Type of Package       | Lube truck        | Lube truck      |               |
| Ratio                 | 50:1              | 50:1            |               |
| Container Size        | 120 lb (55 kg)    | 400 lb (180 kg) |               |
| Pump Part Number      | 239887            | 239888          |               |
| Dispense Kits         | 222072            | 222072          |               |
| Dispense Kit Includes | Fluid Hose        | 1/4 in x 6 ft   | 1/4 in x 6 ft |
|                       | Hose Part Number  | 109150          | 109150        |
|                       | 6 ft Coupled Hose | 203320          | 203320        |
|                       | Fitting(s)        | 155494/155541   | 155494/155541 |
| Air Hose Size         | 3/8 in x 6 ft     | 3/8 in x 6 ft   |               |
| Follower Plate        | 220654            | 223845          |               |
| Drum Cover            | 222060            | 207366          |               |
| Hold Down Kit         | 222061            | 207361          |               |
| Instruction Manual    | 307880            | 307880          |               |

\*Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.

# FIRE-BALL® 300 GREASE PUMP PACKAGES

## ORDERING OPTIONS

### 50:1 GREASE PUMP SIDE POCKET AND HORIZONTAL MOUNT PACKAGES



|                       |                           |                           |
|-----------------------|---------------------------|---------------------------|
| Package Number        | 244644                    | 244645                    |
| Type of Package       | Side Pocket Mount         | Horizontal Mount          |
| Ratio                 | 50:1                      | 50:1                      |
| Pump Part Number      | 239888                    | 239877                    |
| Dispense Kits         | 222072                    | 222072                    |
| Dispense Kit Includes | Fluid Hose                | 1/4 in x 6 ft             |
|                       | Hose Part Number          | 109150                    |
|                       | 6 ft Coupled Hose         | 203320                    |
|                       | Fitting(s)                | 155494/155541             |
| Air Hose Size         | 3/8 in x 6 ft             | 3/8 in x 6 ft             |
| Pump Mount Bracket    | 3 in (f) Coupler – 512874 | 3 in (f) Coupler – 512874 |
| Air Regulator         | 109075                    | 109075                    |
| Air Shut-Off Valve    | 110224                    | 110224                    |
| Installation Kit      | 948393                    | 948393                    |
| Instruction Manual    | 309350                    | 309350                    |



# FIRE-BALL® 425 GREASE PUMPS

## THE PUMP OF CHOICE FOR YOUR MOST DEMANDING APPLICATIONS!

The Fire-Ball 425 features a large air motor to supply the power you need for long pipe runs and higher-volume dispensing. An ideal choice for applications where multiple dispenses happen at the same time.



### Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

### Fewer Repairs

Fewer moving parts in the air motor assembly means less downtime and low repair cost.

### Extended Seal Life

In-line pump design aligns the air motor piston and fluid piston rods to maximize seal life.

### Superior Sealing

Non-metallic poppet valves offer positive sealing performance, even with contaminated "dirty" air environments for long life without repair.

### Corrosion-Resistant

Corrosion-resistant design utilizes liquid salt nitriding, nickel plating, stainless steel, aluminum and chrome on key components for longer life.

## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

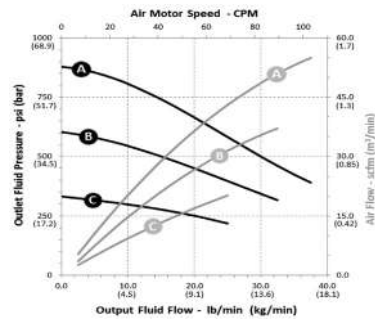
## TYPICAL FLUIDS

- Grease up to NLGI #2

# FIRE-BALL® 425 GREASE PUMPS

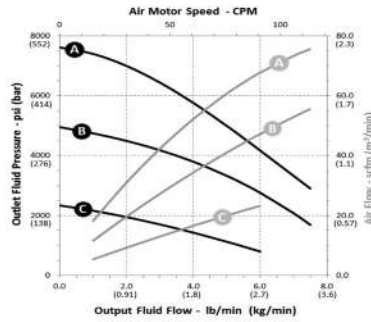
## PUMP PERFORMANCE

### FIRE-BALL 425 10:1 PUMPS



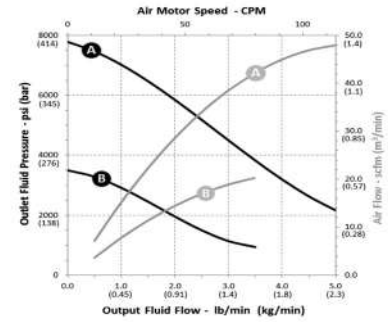
**Inlet Air Pressures:**  
**A** = 100 psi (6.9 bar)  
**B** = 70 psi (4.8 bar)  
**C** = 40 psi (2.8 bar)  
**Test Fluid:**  
 ISO 32 Oil

### FIRE-BALL 425 50:1 PUMPS



**Inlet Air Pressures:**  
**A** = 150 psi (10.3 bar)  
**B** = 100 psi (6.9 bar)  
**C** = 50 psi (3.4 bar)  
**Test Fluid:**  
 NLGI #2 Grease

### FIRE-BALL 425 75:1 PUMPS



**Inlet Air Pressures:**  
**A** = 100 psi (6.9 bar)  
**B** = 50 psi (3.4 bar)  
**Test Fluid:**  
 NLGI #2 Grease

## TECHNICAL SPECIFICATIONS

|                                                 | Fire-Ball 425 10:1                      | Fire-Ball 425 50:1                      | Fire-Ball 425 75:1                   |
|-------------------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------------|
| Fluid Pressure Ratio                            | 10:1                                    | 50:1                                    | 75:1                                 |
| Air Motor Effective Diameter                    | 4.25 in (108 mm)                        | 4.25 in (108 mm)                        | 4.25 in (108 mm)                     |
| Annual Usage                                    | 20,000+ lb (9,072+ kg)                  | 20,000+ lb (9,072+ kg)                  | 20,000+ lb (9,072+ kg)               |
| Maximum Fluid Working Pressure                  | 1,800 psi (124 bar / 12.4 MPa)          | 7,500 psi (517 bar / 51.7 MPa)          | 7,500 psi (517 bar / 51.7 MPa)       |
| Approximate Free Flow Rate @ 100 psi            | 29 lb/min (13.1 kg/min)                 | 9 lb/min (4.1 kg/min)                   | 6.5 lb/min (2.9 kg/min)              |
| Output per Cycle                                | 5.82 oz (164.7 g)                       | 1.06 oz (30 g)                          | 0.71 oz (20 g)                       |
| Continuous Duty Flow Rate                       | 3.5 lb/min (1.59 kg/min)                | 3.35 lb/min (1.52 kg/min)               | 1.95 lb/min (0.88 kg/min)            |
| Approximate Air Use and Flow @ 100 psi (80 cpm) | 45 @ 29 lb/min (1.3 @ 13 kg/min)        | 43 @ 5.3 lb/min (1.2 @ 2.4 kg/min)      | 43 @ 3.5 lb/min (1.2 @ 1.6 kg/min)   |
| Air Inlet                                       | 1/2 in NPT(F)                           | 1/2 in NPT(F)                           | 1/2 in NPT(F)                        |
| Fluid Outlet                                    | 1 in NPT(F)                             | 3/8 in NPT(F)                           | 3/8 in NPT(F)                        |
| Air Operation Range                             | 40 psi to 180 psi (2.8 bar to 12.5 bar) | 40 psi to 150 psi (2.8 bar to 10.4 bar) | 40 psi to 100 psi (2.8 bar to 7 bar) |
| Max Recommended Pump Speed                      | 60 cpm                                  | 60 cpm                                  | 60 cpm                               |
| Cycles per Pound                                | 2.75 cpp                                | 15.1 cpp                                | 22.7 cpp                             |
| Cycles per Kg                                   | 6 cpk                                   | 33 cpk                                  | 50 cpk                               |
| Wetted Parts                                    | Steel, brass, aluminum, leather, Buna-N | CS, brass, aluminum, leather            | CS, brass, aluminum, leather         |
| Sound Pressure Level                            | 80.9 dB(A)                              | 80.9 dB(A)                              | 80.9 dB(A)                           |
| Sound Power Level                               | 94.6 dB(A)                              | 94.6 dB(A)                              | 94.6 dB(A)                           |
| Approximate Weight                              | 38 lb (17.2 kg)                         | 34 lb to 37 lb (15 kg to 17 kg)         | 30 lb to 37 lb (14 kg to 17 kg)      |
| Instruction Manual                              | 309407                                  | 306674                                  | 308777                               |

## ORDERING OPTIONS

### FIRE-BALL 425 GREASE PUMPS

| Part Number | Ratio | Description              |
|-------------|-------|--------------------------|
| 965124      | 10:1  | Stubby pump              |
| 965129*     | 10:1  | For 400 lb (180 kg) drum |
| 205394      | 50:1  | For 120 lb (55 kg) drum  |
| 205395      | 50:1  | For 400 lb (180 kg) drum |

| Part Number | Ratio | Description                        |
|-------------|-------|------------------------------------|
| 239731      | 75:1  | For 35 or 70 lb (16 or 32 kg) pail |
| 239729      | 75:1  | For 120 lb (55 kg) drum            |
| 239730      | 75:1  | For 400 lb (180 kg) drum           |

\*Includes 2 in NPT Bung Adapter (part number 222308).

# FIRE-BALL® 425 GREASE PUMP PACKAGES



## ORDERING OPTIONS

### 50:1 120 LB AND 400 LB GREASE PUMP PACKAGES



|                       |                   |                   |                                   |
|-----------------------|-------------------|-------------------|-----------------------------------|
| Package Number        | 223108*           | 225781*           | 226018*                           |
| Type of Package       | Stationary Supply | Stationary Supply | Stationary Supply Topper-Inductor |
| Ratio                 | 50:1              | 50:1              | 50:1                              |
| Container Size        | 120 lb (55 kg)    | 400 lb (180 kg)   | 400 lb (180 kg)                   |
| Pump Part Number      | 205394            | 205395            | 205395                            |
| Dispense Kits         | 222076            | 222076            | 205102                            |
| Dispense Kit Includes | Fluid Hose        | 3/8 in x 6 ft     | 3/8 in x 6 ft                     |
|                       | Hose Part Number  | 109163            | 109163                            |
|                       | 6 ft Coupled Hose | 205418            | -                                 |
|                       | Fitting(s)        | 155470/155494     | 155470/155494                     |
| Air Hose Size         | 1/2 in x 6 ft     | 1/2 in x 6 ft     | 1/2 in x 6 ft                     |
| Drum Cover            | 204574            | 200326            | -                                 |
| Follower Plate        | 223344            | 223846            | -                                 |
| Pump Support          | -                 | -                 | 204461                            |
| Elevator              | -                 | -                 | 204385                            |
| Inductor Plate        | -                 | -                 | 205699                            |
| Base                  | -                 | -                 | 205339                            |
| Instruction Manual    | 307880            | 307880            | 306556                            |

\*Use 1/2 in (12.7 mm) air regulator (104266) and gauge (100960); must be ordered separately.

# FIRE-BALL® 425 GREASE PUMP PACKAGES

## ORDERING OPTIONS

### 75:1 120 LB AND 400 LB GREASE PUMP PACKAGES



|                       |                        |                        |                     |                      |
|-----------------------|------------------------|------------------------|---------------------|----------------------|
| Package Number        | 244635*                | 244636*                | 244637*             |                      |
| Type of Package       | Stationary Cover-Mount | Stationary Cover-Mount | Stationary Inductor |                      |
| Ratio                 | 75:1                   | 75:1                   | 75:1                |                      |
| Container Size        | 120 lb (55 kg)         | 400 lb (180 kg)        | 400 lb (180 kg)     |                      |
| Pump Part Number      | 239729                 | 239730                 | 239730              |                      |
| Dispense Kits         | 222076                 | 222076                 | 205102              |                      |
| Dispense Kit Includes | Fluid Hose             | 3/8 in x 6 ft          | 3/8 in x 6 ft       | 3/8 in x 6 ft        |
|                       | Hose Part Number       | 109163                 | 109163              | 109163               |
|                       | 6 ft Coupled Hose      | 205418                 | 205418              | -                    |
|                       | Fitting(s)             | 155470/155494          | 155470/155494       | 156859/196220/205528 |
| Air Hose Size         | 1/2 in x 6 ft          | 1/2 in x 6 ft          | 1/2 in x 6 ft       |                      |
| Drum Cover            | 204574                 | 200326                 | -                   |                      |
| Follower Plate        | 223344                 | 223846                 | -                   |                      |
| Pump Support          | -                      | -                      | 204461              |                      |
| Elevator              | -                      | -                      | 204385              |                      |
| Inductor Plate        | -                      | -                      | 205699              |                      |
| Base                  | -                      | -                      | 205339              |                      |
| Instruction Manual    | 307880                 | 307880                 | 306556              |                      |

\*Use 1/2 in (12.7 mm) air regulator (104266) and gauge (100960); must be ordered separately.



## ORDERING OPTIONS

### 50:1 AND 75:1 GREASE PUMP LUBE TRUCK PACKAGES



|                       |                   |                 |                |                 |
|-----------------------|-------------------|-----------------|----------------|-----------------|
| Package Number        | 223107*           | 222075*         | 243817*        | 243818**        |
| Type of Package       | Lube Truck        | Lube Truck      | Lube Truck     | Lube Truck      |
| Ratio                 | 50:1              | 50:1            | 75:1           | 75:1            |
| Container Size        | 120 lb (55 kg)    | 400 lb (180 kg) | 120 lb (55 kg) | 400 lb (180 kg) |
| Pump Part Number      | 205394            | 205395          | 239729         | 239730          |
| Dispense Kits         | 222076            | 222076          | 222076         | 222076          |
| Dispense Kit Includes | Fluid Hose        | 3/8 in x 6 ft   | 3/8 in x 6 ft  | 3/8 in x 6 ft   |
|                       | Hose Part Number  | 109163          | 109163         | 109163          |
|                       | 6 ft Coupled Hose | 205418          | 205418         | 205418          |
|                       | Fitting(s)        | 155470/155494   | 155470/155494  | 155470/155494   |
| Air Hose Size         | 1/2 in x 6 ft     | 1/2 in x 6 ft   | 1/2 in x 6 ft  | 1/2 in x 6 ft   |
| Drum Cover            | 222060            | 207366          | 222060         | 207366          |
| Follower Plate        | 223344            | 223846          | 223344         | 223846          |
| Hold Down Kit         | 222061            | 207361          | 222061         | 207361          |
| Instruction Manual    | 307880            | 307880          | 307880         | 307880          |

\*Use 1/2 in (12.7 mm) air regulator (104266) and gauge (100960); must be ordered separately.

\*\*Use 3/8 in (9.5 mm) air regulator (109075); must be ordered separately.

# FIRE-BALL® 425 GREASE PUMP RAM PACKAGES

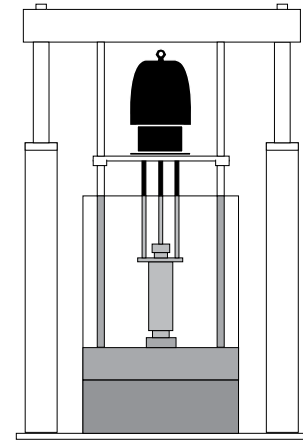
## ORDERING OPTIONS

### GREASE PUMP RAM PACKAGES



#### RAM-Mount

- Force feed high volume pumps
- Extreme viscous grease
- Reduce waste
- Clean and convenient method of drum change



|                         |                        |                        |
|-------------------------|------------------------|------------------------|
| Package Number          | 244905                 | 244906                 |
| Type of Package         | Stationary Ram         | Stationary Ram         |
| Ratio                   | 50:1                   | 75:1                   |
| Container Size          | 400 lb (180 kg)        | 400 lb (180 kg)        |
| Pump Part Number        | Fire-Ball 425 – 205395 | Fire-Ball 425 – 239730 |
| Dispense Kits           | 222076                 | 222076                 |
| Dispense Kit Includes   | Fluid Hose             | 3/8 in x 6 ft          |
|                         | Hose Part Number       | 109163                 |
|                         | 6 ft Coupled Hose      | 205418                 |
|                         | Fitting(s)             | 155470/155494          |
| Air Hose Size           | 1/2 in x 6 ft          | 1/2 in x 6 ft          |
| Ram                     | 257435                 | 257435                 |
| Adapter Kit             | 224266                 | 224266                 |
| Air Regulator and Gauge | *                      | 244844                 |
| Ram Plate Seal Kit      | 247335                 | 247335                 |
| Pump Mount Kit          | 247337                 | 247337                 |
| Instruction Manual      | 309345                 | 309345                 |

\*Air gauge included with RAM controller.

# FIRE-BALL® 425 GREASE PUMP PACKAGES



## ORDERING OPTIONS

### 50:1 AND 75:1 GREASE PUMP SIDE POCKET AND HORIZONTAL MOUNT PACKAGES




|                       |                           |                           |                           |               |
|-----------------------|---------------------------|---------------------------|---------------------------|---------------|
| Package Number        | 244646                    | 244647                    | 244648                    |               |
| Type of Package       | Side Pocket Mount         | Side Pocket Mount         | Horizontal Mount          |               |
| Ratio                 | 50:1                      | 75:1                      | 75:1                      |               |
| Pump Part Number      | 205395                    | 239730                    | 239731                    |               |
| Dispense Kits         | 222076                    | 222076                    | 222076                    |               |
| Dispense Kit Includes | Fluid Hose                | 3/8 in x 6 ft             | 3/8 in x 6 ft             | 3/8 in x 6 ft |
|                       | Hose Part Number          | 109163                    | 109163                    | 109163        |
|                       | 6 ft Coupled Hose         | 205418                    | 205418                    | 205418        |
|                       | Fitting(s)                | 155470/155494             | 155470/155494             | 155470/155494 |
| Air Hose Size         | 1/2 in x 6 ft             | 1/2 in x 6 ft             | 1/2 in x 6 ft             |               |
| Pump Mount Bracket    | 3 in (f) Coupler – 512874 | 3 in (f) Coupler – 512874 | 3 in (f) Coupler – 512874 |               |
| Air Regulator         | 244844                    | 244844                    | 244844                    |               |
| Air Shut-Off Valve    | 110225                    | 110225                    | 110225                    |               |
| Installation Kit      | 948392                    | 948392                    | 948392                    |               |
| Instruction Manual    | 309350                    | 309350                    | 309350                    |               |


# FIRE-BALL GREASE PUMP ACCESSORIES

## ORDERING OPTIONS


### AIR REGULATORS

|  | Part Number | Description                 |
|-----------------------------------------------------------------------------------|-------------|-----------------------------|
|                                                                                   | 109075      | 3/8 in NPT (fbe) with gauge |
|                                                                                   | 244844      | 1/2 in NPT (fbe) with gauge |


### BLEED-TYPE AIR SHUT-OFF VALVES

|  | Part Number | Description |
|-----------------------------------------------------------------------------------|-------------|-------------|
|                                                                                   | 110223      | 1/4 in NPT  |
|                                                                                   | 110224      | 3/8 in NPT  |
|                                                                                   | 110225      | 1/2 in NPT  |
|                                                                                   | 110226      | 3/4 in NPT  |


### BUNG ADAPTERS

|  | Part Number | Dimensions | Compatible Pumps                           |
|------------------------------------------------------------------------------------|-------------|------------|--------------------------------------------|
|                                                                                    | 239965      | 1.65 in ID | Fire-Ball 425, 50:1<br>Fire-Ball 425, 75:1 |
|                                                                                    | 239966      | 1.29 in ID | Fire-Ball 300, 15:1<br>Fire-Ball 300, 50:1 |

### DISPENSE HOSE AND FITTING KITS

|  | Part Number | Compatible Pump(s)                              | Includes        |            |                       |          |                      |                         |                          |                      |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------|-----------------|------------|-----------------------|----------|----------------------|-------------------------|--------------------------|----------------------|
|                                                                                     |             |                                                 | Fluid Hose Size | Fluid Hose | Grease Dispense Valve | Z-Swivel | 3/8 in Closed Nipple | Quick-Disconnect Nipple | Quick-Disconnect Coupler | 3/8 in Air Regulator |
|                                                                                     | 222080      | Fire-Ball 300, 15:1                             | 1/4 in x 15 ft  | 109165     | 242056                | 202577   | 156849               | 169971                  | 110198                   | 110234               |
|                                                                                     | 222081      | Fire-Ball 300, 15:1                             | 1/4 in x 25 ft  | 109167     | 242056                | 202577   | 156849               | 169971                  | 110198                   | 110234               |
|                                                                                     | 236058      | Mini Fire-Ball 225, 50:1                        | 1/4 in x 12 ft  | 109151     | 242056                | 202577   | -                    | 169971                  | 114558                   | -                    |
|                                                                                     | 222070      | Fire-Ball 300, 50:1                             | 1/4 in x 12 ft  | 109151     | 242056                | 202577   | -                    | 169971                  | 114558                   | -                    |
|                                                                                     | 26C183      | Fire-Ball 300, 50:1                             | 1/4 in x 12 ft  | 109151     | 26C184                | 202577   | -                    | 169971                  | 114558                   | -                    |
|                                                                                     | 222383      | Mini Fire-Ball 225, 50:1<br>Fire-Ball 300, 50:1 | 1/4 in x 25 ft  | 109154     | 242056                | 202577   | -                    | 169971                  | 114558                   | -                    |


### HOSE AND FITTING KITS

|  | Part Number         | Pressure Rating     | Compatible Pumps    | Includes      |                       |                 |                         |
|-------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------|-----------------------|-----------------|-------------------------|
|                                                                                     |                     |                     |                     | 6 ft Air Hose | Air Hose Swivel Elbow | 6 ft Fluid Hose | Fluid Hose Swivel Elbow |
|                                                                                     | 222072              | 5,000 psi (345 bar) | Fire-Ball 300, 50:1 | 203320        | 155494                | 109150          | 155541                  |
| 222076                                                                              | 4,000 psi (276 bar) | Fire-Ball 425, 50:1 | 205418              | 155470        | 109163                | 155494          |                         |




## ORDERING OPTIONS




### DRUM COVERS

|  | Part Number | Description                                                                           | Compatible Pumps                                                                                       |
|-----------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|                                                                                   | 222059      | Cover for 35 lb (16 kg) pails                                                         | Mini Fire-Ball 225, 50:1<br>Fire-Ball 300, 50:1                                                        |
|                                                                                   | 24R350      | LD Cover for open-head 35 lb (16 kg), 70 lb (32 kg) or 120 lb (55 kg) drums           | Mini Fire-Ball 225, 50:1<br>Fire-Ball Pumps                                                            |
|                                                                                   | 204574      | SD Cover for open-head 70 lb (32 kg) or 120 lb (55 kg)                                | Mini Fire-Ball 225, 50:1<br>Fire-Ball Pumps                                                            |
|                                                                                   | 200326      | Cover for open-head 400 lb (180 kg) drums                                             | Mini Fire-Ball 225, 50:1<br>Fire-Ball 300, 15:1<br>Fire-Ball 300, 50:1<br>Fire-Ball 425, 10:1 and 50:1 |
|                                                                                   | 160754      | Bung-adapter plate for mounting pump to 120 lb (55 kg) or 400 lb (180 kg) drum covers | Fire-Ball Pumps                                                                                        |

### DRUM ELEVATOR

|  | Part Number | Description                                                   | Includes      |               |                 |
|------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------|---------------|---------------|-----------------|
|                                                                                    |             |                                                               | Cover Support | Drum Elevator | Air Control Kit |
|                                                                                    | 241663      | Air-powered elevator to speed up 400 lb (180 kg) drum changes | 207562        | 204385        | 207561          |

### MOUNTING ACCESSORIES FOR FIRE-BALL PUMPS

|  | Part Number | Description                                   |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------------|
|                                                                                     | 948393      | Flange Adapter (male) for Fire-Ball 300 Pumps |
|  | 948392      | Flange Adapter (male) for Fire-Ball 425 Pumps |
|  | 512874      | Coupler (female), 3 in thread                 |

# FIRE-BALL GREASE PUMP ACCESSORIES

## ORDERING OPTIONS

### FOLLOWER PLATES



| Part Number | Container Size                  | Flexible Wiper | Compatible Pumps                                                                  |
|-------------|---------------------------------|----------------|-----------------------------------------------------------------------------------|
| 24F901      | 35 lb (16 kg)                   | 16F769         | LD 50:1<br>Mini Fire-Ball 225, 50:1<br>Fire-Ball 300, 15:1<br>Fire-Ball 300, 50:1 |
| 24F902      | 70 lb (32 kg)<br>120 lb (55 kg) | 16F781         | LD 50:1<br>Mini Fire-Ball 225, 50:1<br>Fire-Ball 300, 15:1<br>Fire-Ball 300, 50:1 |
| 24F903      | 400 lb (180 kg)                 | 16F784         | LD 50:1<br>Mini Fire-Ball 225, 50:1<br>Fire-Ball 300, 15:1<br>Fire-Ball 300, 50:1 |
| 220653      | 35 lb (16 kg)                   | 183241         | Mini Fire-Ball 225, 50:1<br>Fire-Ball 300, 15:1<br>Fire-Ball 300, 50:1            |
| 220654      | 70 lb (32 kg)<br>120 lb (55 kg) | 183243         | Mini Fire-Ball 225, 50:1<br>Fire-Ball 300, 15:1<br>Fire-Ball 300, 50:1            |
| 223845      | 400 lb (180 kg)                 | 186463         | Mini Fire-Ball 225, 50:1<br>Fire-Ball 300, 15:1<br>Fire-Ball 300, 50:1            |
| 204130      | 400 lb (180 kg)                 | -              | Mini Fire-Ball 225, 50:1<br>Fire-Ball 300, 15:1<br>Fire-Ball 300, 50:1            |
| 223344      | 120 lb (55 kg)                  | 183243         | Fire-Ball 425, 50:1<br>Fire-Ball 425, 75:1                                        |
| 223700      | 120 lb (55 kg)                  | 183243         | Dyna-Star 5:1                                                                     |
| 223701      | 400 lb (180 kg)                 | 186463         | Dyna-Star 5:1<br>Fire-Ball 425 10:1                                               |
| 223846      | 400 lb (180 kg)                 | 186463         | Fire-Ball 425, 50:1<br>Fire-Ball 425, 75:1                                        |
| 205337      | 400 lb (180 kg)                 | -              | Fire-Ball 425, 50:1<br>Fire-Ball 425, 75:1                                        |

### HIGH-PRESSURE GREASE SHUT-OFF VALVE



| Part Number | Description                | Pressure Rating     | Inlet  |
|-------------|----------------------------|---------------------|--------|
| 202869      | High-pressure needle valve | 5,000 psi (345 bar) | 1/2 in |






## ORDERING OPTIONS


### PORTABLE BASES

|                                                                                    | Part Number | Description                          |
|------------------------------------------------------------------------------------|-------------|--------------------------------------|
|   | 131183      | Drum dolly, 35 lb (16 kg)            |
|   | 131184      | Drum dolly, 120 lb (54 kg)           |
|   | 129645      | Drum dolly, 400 lb (182 kg)          |
|  | 203622      | Caster base for 120 lb (54 kg) drums |


### CARTS

|                                                                                     | Part Number | Description                                                             | Compatible Container Size                        |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------|--------------------------------------------------|
|  | 203650      | Drums fit onto recess on formed base. Rim clamps secure drum onto cart. | 35 lb (16 kg)<br>70 lb (32 kg)<br>120 lb (55 kg) |
|  | 222243      | Heavy-duty drum cart with pneumatic wheels                              | 120 lb (55 kg)                                   |
|  | 111470      | Heavy-duty drum truck on roll-around base                               | 400 lb (180 kg)                                  |

### PRO-SHOT DISPENSE VALVES

|                                                                                     | Part Number | Description                                                                               |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------|
|  | 242055      | 1/4 in NPT(F) inlet without coupler or extension                                          |
|                                                                                     | 242056      | 1/4 in NPT(F) inlet with coupler and extension 200389                                     |
|                                                                                     | 242057      | 3/8 in NPT(F) inlet without coupler or extension                                          |
|                                                                                     | 242058      | 3/8 in NPT(F) inlet with coupler and extension 200389                                     |
|                                                                                     | 224872      | Includes 30 in (76.2 cm) whip hose (109148), Z-Swivel (202577), and grease valve (242056) |

### SWIVEL

|                                                                                     | Part Number | Description                                                                  |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------|
|  | 202577      | Z-Swivel allows non-binding movement for hard-to-reach locations, 1/4-18 NPT |

# GT 750 36:1 GREASE PUMPS

## FEWER STROKES AND LONGER PUMP LIFE

The GT 750 pump was engineered to perform in challenging applications and changing environments. The large 7.5-inch air motor and pump lower combination allows the GT 750 pump to move the same amount of grease with up to four times fewer pump strokes.



### Efficient Air Motor

Use less air to move more grease.

### High Flow Rates

Up to 32 lb/min of grease.

### Proven Pump Technology

Based on Graco NXT™ pump technology.

### Multiple Tank Options

Available in 35, 120 and 400 lb down tube lengths.

### High Volume Per Stroke

Pump more grease without having to drive pump too quickly to damage seals.

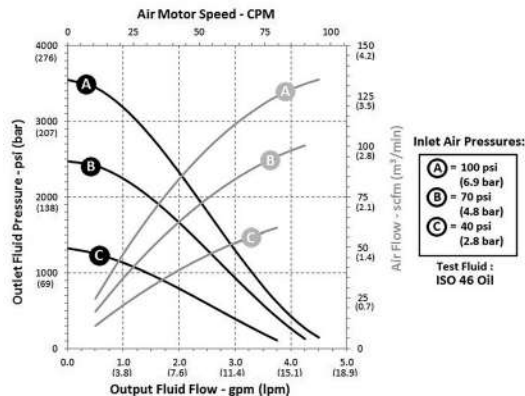
## TYPICAL APPLICATIONS

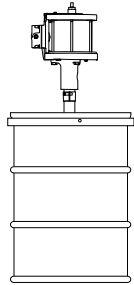
- Lube trucks
- Mining
- Heavy-duty dealerships
- Fleet service facilities
- In-plant

## TYPICAL FLUIDS

- Grease up to NLGI #2

## PUMP PERFORMANCE

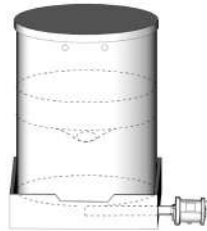




Drum Mount



Side Pocket Mount






Horizontal Mount



Top Mount


## ORDERING OPTIONS

### GT 750 36:1 GREASE PUMPS


|                                                                                     | Part Number | Description                             |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------|
|    | 24W498      | GT 750, 36:1 Grease Pump, stubby length |
|   | 25D116      | GT 750, 36:1 Grease Pump, 120 lb length |
|  | 24W337      | GT 750, 36:1 Grease Pump, 400 lb length |

## ACCESSORIES


### CAM LOCK ADAPTERS

|                                                                                     | Part Number | Description                    |
|-------------------------------------------------------------------------------------|-------------|--------------------------------|
|  | 131380      | Male Cam Lock Adapter – 3 in   |
|                                                                                     | 131394      | Female Cam Lock Adapter – 3 in |

### DRUM COVERS

|                                                                                     | Part Number | Description                                                  |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------|
|  | 204574      | Cover for 120 lb (54 kg) drums                               |
|                                                                                     | 200326      | Cover for 400 lb (182 kg) drums                              |
|                                                                                     | 160754      | Bung Adapter Plate (used to mount pump to drum cover) – 2 in |

### FOLLOWER PLATES

|                                                                                     | Part Number | Description                              |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------|
|  | 223700      | Follower plate for 120 lb (54 kg) drums  |
|                                                                                     | 223701      | Follower plate for 400 lb (182 kg) drums |

# NXT CHECK-MATE® GREASE PUMPS

## MOVE LARGE AMOUNTS OF GREASE FAST

Tested to outperform and outlast all other pumps on the market – with its long-life packing design and intuitive, easy-to-use controls – the NXT™ High-Flo pump is the best value for the money. Fewer parts, faster repairs, and long-lasting durability.



### NXT Air Motor

Modular design for easier maintenance with rugged body armor that won't rust or dent.

### Modular Air Valves

Easy-to-repair valve eliminates stalling and contains deicing controls.

### Integrated Air Controls

Easy-turn, lockable regulator is front-mounted for easy access. Compact and modular with built-in filtration.

### Piston Valve with Floating Piston Seal

For maximum pressure balance over a range of material viscosities.

### TYPICAL APPLICATIONS

- Fleet services facilities
- In-plant
- Mining

### TYPICAL FLUIDS

- Grease up to NLGI #2



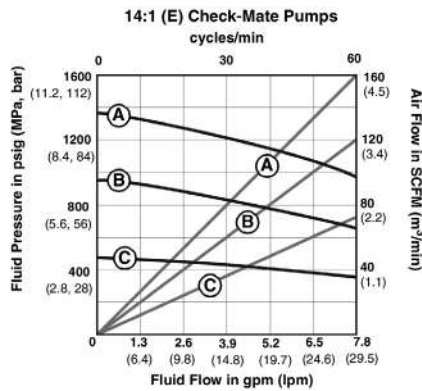
## PUMP PERFORMANCE

Inlet Pressures:

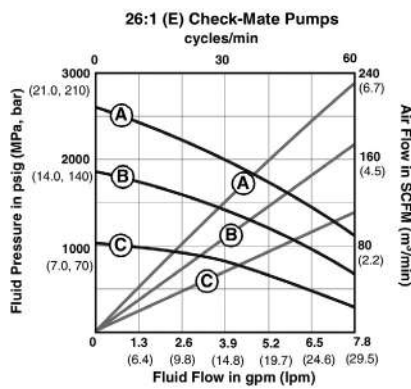
**A** = 100 psi (6.9 bar) air pressure    **B** = 70 psi (4.8 bar) air pressure    **C** = 40 psi (2.8 bar) air pressure

TEST FLUID: No. 10 Weight Oil

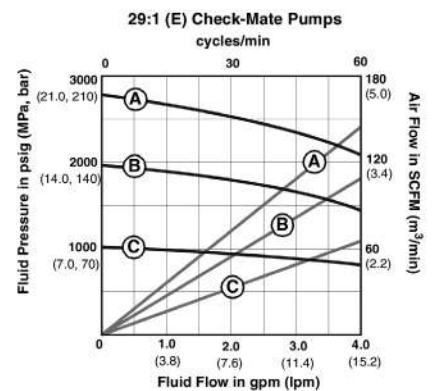
### NXT 14:1 CHECK-MATE PUMPS



### NXT 26:1 CHECK-MATE PUMPS



### NXT 29:1 CHECK-MATE PUMPS



## TECHNICAL SPECIFICATIONS

|                                | NXT Check-Mate 14:1                                                                                                                                                                                                                      | NXT Check-Mate 26:1                                                                                                                                                                                                                      | NXT Check-Mate 29:1                                                                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fluid Pressure Ratio           | 14:1                                                                                                                                                                                                                                     | 26:1                                                                                                                                                                                                                                     | 29:1                                                                                                                                                                                                         |
| Air Motor                      | NXT 3400                                                                                                                                                                                                                                 | NXT 6500                                                                                                                                                                                                                                 | NXT 3400                                                                                                                                                                                                     |
| Air Motor Effective Diameter   | 7.5 in (191 mm)                                                                                                                                                                                                                          | 10.4 in (264 mm)                                                                                                                                                                                                                         | 7.5 in (191 mm)                                                                                                                                                                                              |
| Pump Lower                     | L500CS                                                                                                                                                                                                                                   | L500CS                                                                                                                                                                                                                                   | L250CS                                                                                                                                                                                                       |
| Maximum Fluid Working Pressure | 1,400 psi (97 bar / 9.7 MPa)                                                                                                                                                                                                             | 2,600 psi (179 bar / 17.9 MPa)                                                                                                                                                                                                           | 2,900 psi (200 bar / 20 MPa)                                                                                                                                                                                 |
| Output per Cycle               | 15.4 oz (435 g)                                                                                                                                                                                                                          | 15.4 oz (435 g)                                                                                                                                                                                                                          | 7.7 oz (218 g)                                                                                                                                                                                               |
| Air Inlet                      | 3/4 in NPT(F)                                                                                                                                                                                                                            | 3/4 in NPT(F)                                                                                                                                                                                                                            | 3/4 in NPT(F)                                                                                                                                                                                                |
| Fluid Outlet                   | 1-1/2 in NPT(M)                                                                                                                                                                                                                          | 1-1/2 in NPT(M)                                                                                                                                                                                                                          | 1 in NPT(F)                                                                                                                                                                                                  |
| Air Operation Range            | 0 psi to 100 psi (0 bar to 7 bar)                                                                                                                                                                                                        | 0 psi to 100 psi (0 bar to 7 bar)                                                                                                                                                                                                        | 0 psi to 100 psi (0 bar to 7 bar)                                                                                                                                                                            |
| Max Recommended Pump Speed     | 20 cpm                                                                                                                                                                                                                                   | 20 cpm                                                                                                                                                                                                                                   | 20 cpm                                                                                                                                                                                                       |
| Cycles per Pound               | 1.0 cpp                                                                                                                                                                                                                                  | 1.0 cpp                                                                                                                                                                                                                                  | 2.1 cpp                                                                                                                                                                                                      |
| Cycles per Kg                  | 2 cpk                                                                                                                                                                                                                                    | 2 cpk                                                                                                                                                                                                                                    | 5 cpk                                                                                                                                                                                                        |
| Wetted Parts                   | 303, 304, 316 and 17-4PH grades of stainless steel; ductile iron and carbon steel, electroless nickel plated; carbon steel, zinc and electroless nickel plated; E52100 and ETD 150 alloy steel; PTFE; UHMWPE; carbon-filled PTFE; acetal | 303, 304, 316 and 17-4PH grades of stainless steel; ductile iron and carbon steel, electroless nickel plated; carbon steel, zinc and electroless nickel plated; E52100 and ETD 150 alloy steel; PTFE; UHMWPE; carbon-filled PTFE; acetal | ETD 150, 41L40, and 4140 alloy steel; 304, 316, 17-4PH and 440C grades of stainless steel; acetal; carbon-filled PTFE; carbon steel; ductile iron; electroless nickel, zinc and chrome plating; PTFE; UHMWPE |
| Sound Pressure Level           | 77 dB(A)                                                                                                                                                                                                                                 | 80 dB(A)                                                                                                                                                                                                                                 | 77 dB(A)                                                                                                                                                                                                     |
| Sound Power Level              | 87 dB(A)                                                                                                                                                                                                                                 | 90 dB(A)                                                                                                                                                                                                                                 | 87 dB(A)                                                                                                                                                                                                     |
| Approximate Weight             | 152 lb (69 kg)                                                                                                                                                                                                                           | 169 lb (77 kg)                                                                                                                                                                                                                           | 128 lb (58 kg)                                                                                                                                                                                               |
| Instruction Manual             | System – 312863<br>Pump – 312376<br>Pump Lower – 312375<br>Air Motor – 311238                                                                                                                                                            | System – 312863<br>Pump – 312376<br>Pump Lower – 312375<br>Air Motor – 311238                                                                                                                                                            | System – 312863<br>Pump – 312376<br>Pump Lower – 312375<br>Air Motor – 311238                                                                                                                                |

# NXT CHECK-MATE® GREASE PUMPS

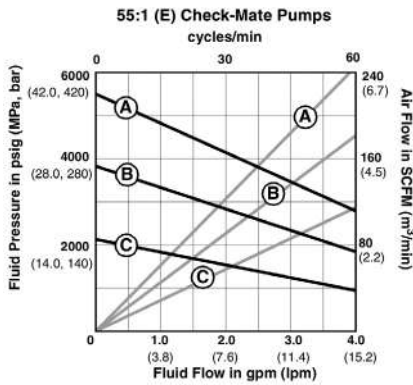
## PUMP PERFORMANCE

Inlet Pressures:

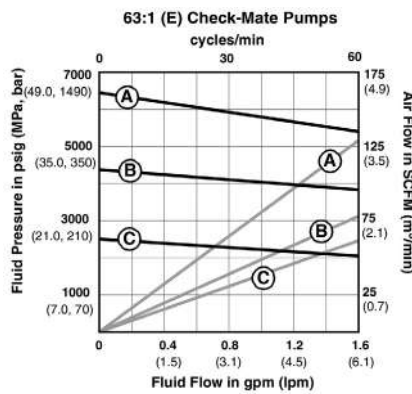
**A** = 100 psi (6.9 bar) air pressure    **B** = 70 psi (4.8 bar) air pressure    **C** = 40 psi (2.8 bar) air pressure

TEST FLUID: No. 10 Weight Oil

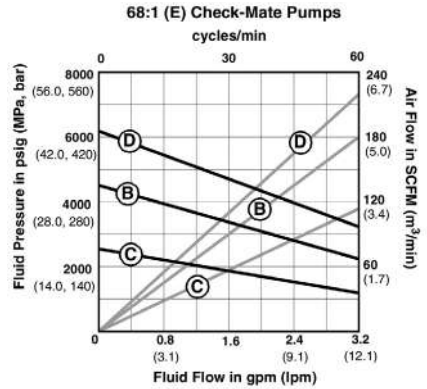
### NXT 55:1 CHECK-MATE PUMPS



### NXT 63:1 CHECK-MATE PUMPS



### NXT 68:1 CHECK-MATE PUMPS



## TECHNICAL SPECIFICATIONS

|                                | NXT Check-Mate 55:1                                                                                                                                             | NXT Check-Mate 63:1                                                                                                                                             | NXT Check-Mate 68:1                                                                                                                                                        |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fluid Pressure Ratio           | 55:1                                                                                                                                                            | 63:1                                                                                                                                                            | 68:1                                                                                                                                                                       |
| Air Motor                      | NXT 6500                                                                                                                                                        | NXT 3400                                                                                                                                                        | NXT 6500                                                                                                                                                                   |
| Air Motor Effective Diameter   | 10.4 in (264 mm)                                                                                                                                                | 7.5 in (191 mm)                                                                                                                                                 | 10.4 in (264 mm)                                                                                                                                                           |
| Pump Lower                     | L250CS                                                                                                                                                          | L100CS                                                                                                                                                          | L200CS                                                                                                                                                                     |
| Maximum Fluid Working Pressure | 5,500 psi (379 bar / 37.9 MPa)                                                                                                                                  | 4,500 psi (310 bar / 31 MPa)                                                                                                                                    | 5,300 psi (366 bar / 36.6 MPa)                                                                                                                                             |
| Output per Cycle               | 7.7 oz (218 g)                                                                                                                                                  | 3.1 oz (87 g)                                                                                                                                                   | 6.1 oz (174 g)                                                                                                                                                             |
| Air Inlet                      | 3/4 in NPT(F)                                                                                                                                                   | 3/4 in NPT(F)                                                                                                                                                   | 3/4 in NPT(F)                                                                                                                                                              |
| Fluid Outlet                   | 1 in NPT(F)                                                                                                                                                     | 3/4 in NPT(M)                                                                                                                                                   | 1 in NPT(F)                                                                                                                                                                |
| Air Operation Range            | 0 psi to 100 psi (0 bar to 7 bar)                                                                                                                               | 0 psi to 72 psi (0 bar to 4.9 bar)                                                                                                                              | 0 psi to 78 psi (0 bar to 5.4 bar)                                                                                                                                         |
| Max Recommended Pump Speed     | 20 cpm                                                                                                                                                          | 20 cpm                                                                                                                                                          | 20 cpm                                                                                                                                                                     |
| Cycles per Pound               | 2.1 cpp                                                                                                                                                         | 5.2 cpp                                                                                                                                                         | 2.6 cpp                                                                                                                                                                    |
| Cycles per Kg                  | 5 cpk                                                                                                                                                           | 11 cpk                                                                                                                                                          | 6 cpk                                                                                                                                                                      |
| Wetted Parts                   | ETD 150, 41L40 and 4140 alloy steel; 304 and 17-4PH grades of stainless steel; acetal; carbon-filled PTFE; CS; ductile iron; eNi, Zn and chrome plating; UHMWPE | ETD 150, 41L40 and 4140 alloy steel; 304 and 17-4PH grades of stainless steel; acetal; carbon-filled PTFE; CS; ductile iron; eNi, Zn and chrome plating; UHMWPE | ETD 150, 41L40 and 4140 alloy steel; 304, 316 and 17-4PH grades of stainless steel; acetal; carbon-filled PTFE; CS; ductile iron; eNi, Zn and chrome plating; PTFE; UHMWPE |
| Sound Pressure Level           | 80 dB(A)                                                                                                                                                        | 87 dB(A)                                                                                                                                                        | 80 dB(A)                                                                                                                                                                   |
| Sound Power Level              | 90 dB(A)                                                                                                                                                        | 87 dB(A)                                                                                                                                                        | 90 dB(A)                                                                                                                                                                   |
| Approximate Weight             | 145 lb (66 kg)                                                                                                                                                  | 101 lb (46 kg)                                                                                                                                                  | 145 lb (66 kg)                                                                                                                                                             |
| Instruction Manual             | System – 312863<br>Pump – 312376<br>Pump Lower – 312375<br>Air Motor – 311238                                                                                   | System – 312863<br>Pump – 312376<br>Pump Lower – 312375<br>Air Motor – 311238                                                                                   | System – 312863<br>Pump – 312376<br>Pump Lower – 312375<br>Air Motor – 311238                                                                                              |



## ORDERING OPTIONS

### PUMP PACKAGES

| Package Number         | 24E006         | 24E007         | 24E008         | 24E009         | 24E010         | 24E011         |
|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Ratio                  | 14:1           | 26:1           | 29:1           | 55:1           | 63:1           | 68:1           |
| Pump                   | P14DCS         | P26DCS         | P29DCS         | P55DCS         | P63DCS         | P68DCS         |
| Mounting Type          | Floor Standing | Floor Standing | Floor Standing | Floor Standing | Floor Standing | Floor Standing |
| Mounting Number        | 223952         | 223952         | 223952         | 223952         | 223952         | 223952         |
| 3/4 in x 6 ft Air Hose | 208610         | 208610         | 208610         | 208610         | 208610         | 208610         |
| 1 in x 6 ft Fluid Hose | 115042         | 244657         | 244657         | 244657         | 244657         | 244657         |

### ACCESSORIES

#### DATATRAK™ CONVERSION KITS

For converting NXT air motors to include the DataTrak module with runaway protection. Refer to manual 311486 for more details.

| Part Number | Description                                                            |
|-------------|------------------------------------------------------------------------|
| NXT306      | Conversion kit for NXT3400 motors. Use with 14:1, 29:1 and 63:1 pumps. |
| NXT606      | Conversion kit for NXT6500 motors. Use with 26:1, 55:1 and 68:1 pumps. |



GREASE PUMPS AND PACKAGES

# NXT CHECK-MATE® GREASE PUMPS

## ORDERING OPTIONS

### RAM PUMP PACKAGES WITH DATATRAK

|                        |        |        |        |
|------------------------|--------|--------|--------|
| Package Number         | 247979 | 247980 | 247981 |
| Ratio                  | 14:1   | 63:1   | 68:1   |
| RAM System             | CM53BN | CM17BN | CM2RBN |
| 3/4 in x 6 ft Air Hose | 208610 | 208610 | 208610 |
| 1 in x 6 ft Fluid Hose | 115042 | 244657 | 244657 |

### RAM PUMP PACKAGES WITHOUT DATATRAK

|                        |        |        |        |
|------------------------|--------|--------|--------|
| Package Number         | 24E780 | 24E781 | 24E782 |
| Ratio                  | 14:1   | 63:1   | 68:1   |
| RAM System             | CM515N | CM155N | CM2L5N |
| 3/4 in x 6 ft Air Hose | 208610 | 208610 | 208610 |
| 1 in x 6 ft Fluid Hose | 115042 | 244657 | 244657 |



### SEAL KIT

|  | Part Number | Description                                |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------|
|                                                                                     | 25S071      | Nitrile seal kit for 400 lb (180 kg) drums |

### SINGLE POST RAM FOR GREASE PAILS

| Part Number | Description                                        |
|-------------|----------------------------------------------------|
| CM152B      | P63LCS Pump, S20c Ram on cart, 5 gal (20 L) platen |



# DYNA-STAR® HYDRAULIC PUMPS



## FIELD-PROVEN, ENERGY-EFFICIENT

Hydraulic Dyna-Star pumps provide reliable, quiet, ice-free performance at maximum pressure and low-flow rates and are up to three times more energy efficient than comparable compressed-air systems.

### Built-In Reliability

Self-lubricating vertical design for long life and reliable operation in high-vibration environments.

### Quiet Hydraulic Motor

No need for add-on mufflers.

### High-Efficiency Motor

Uses less hydraulic oil.

## TYPICAL APPLICATIONS

- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

## TYPICAL FLUIDS

- Grease up to NLGI #280 to 5,000 SUS

## TECHNICAL SPECIFICATIONS

| Fluid Pressure Ratio          | 5:1                                                                                | 10:1                                                                                |
|-------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Pump Number                   | 224912 – 35 lb (16 kg)<br>224751 – 120 lb (55 kg)<br>224752 – 400 lb (180 kg)      | 2008088 – 60 lb (27 kg)<br>247443 – 120 lb (55 kg)<br>247450 – 400 lb (180 kg)      |
| Applications                  | Grease Dispensing                                                                  | Grease Dispensing                                                                   |
| Maximum Input Pressure        | 1,500 psi (102 bar)                                                                | 600 psi (41 bar)                                                                    |
| Maximum Fluid Input Volume    | 3 gpm (11.4 lpm)                                                                   | 3 gpm (11.4 lpm)                                                                    |
| Maximum Output Flow Rate      | 4 lb/min (1.8 kg)                                                                  | 1.1 lb/min (0.5 kg)                                                                 |
| Maximum Recommended CPM       | 60                                                                                 | 60                                                                                  |
| Maximum Fluid Output Pressure | 7,500 psi (517 bar)                                                                | 7,500 psi (517 bar)                                                                 |
| Hydraulic Supply Inlet        | 3/8 in NPT                                                                         | 3/4 to 16 in JIC (37° Flare)                                                        |
| Hydraulic Return Outlet       | 3/4 in NPT                                                                         | 3/4 in NPT                                                                          |
| Fluid Outlet                  | 1/2 in NPT                                                                         | 1/2 in NPT                                                                          |
| Maximum Incoming Fluid Temp.  | 130°F (54°C)                                                                       | 200°F (93°C)                                                                        |
| Wetted Parts                  | Steel, copper, polyurethane, Buna-N, polyester elastomer                           | Steel, copper, polyurethane, Buna-N, polyester elastomer                            |
| Sound Pressure Level          | 77 dB(A)                                                                           | 77 dB(A)                                                                            |
| Approximate Weight            | 224912 – 32.5 lb (14.7 kg)<br>224751 – 37.5 lb (17 kg)<br>224752 – 42 lb (19.1 kg) | 2008088 – 41 lb (18.6 kg)<br>247443 – 43.5 lb (19.7 kg)<br>247450 – 48 lb (21.8 kg) |
| Instruction Manual            | 308156                                                                             | 312350                                                                              |

# DYNA-STAR® HYDRAULIC PUMPS


## ORDERING OPTIONS

### DYNA-STAR HYDRAULIC PUMPS


| Part Number | Description                               |
|-------------|-------------------------------------------|
| 224912      | 5:1 Grease pump for 35 lb (16 kg) pails   |
| 224751      | 5:1 Grease pump for 120 lb (55 kg) drum   |
| 224752      | 5:1 Grease pump for 400 lb (180 kg) drum  |
| 2008088     | 10:1 Grease pump for 35 lb (16 kg) pails  |
| 247443      | 10:1 Grease pump for 120 lb (55 kg) drum  |
| 247450      | 10:1 Grease pump for 400 lb (180 kg) drum |

## ACCESSORIES

### DRUM COVERS


|  | Part Number | Description                    |
|-----------------------------------------------------------------------------------|-------------|--------------------------------|
|                                                                                   | 224915      | Cover for 35 lb (16 kg) pail   |
|                                                                                   | 204574      | Cover for 120 lb (55 kg) drum  |
|                                                                                   | 200326      | Cover for 400 lb (180 kg) drum |

### FOLLOWER PLATES


|  | Part Number | Description                        |
|-------------------------------------------------------------------------------------|-------------|------------------------------------|
|                                                                                     | 224916      | Follower plate for 35 lb (16 kg)   |
|                                                                                     | 223700      | Follower plate for 120 lb (55 kg)  |
|                                                                                     | 223701      | Follower plate for 400 lb (180 kg) |

### HYDRAULIC FLUID CONTROLS

Required for each pump

|  | Part Number | Description                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | 236864      | Dyna-Star Fluid Controls [1,500 psi (102 bar); 3 gpm (11.4 lpm)]. Includes manifold with pressure-reducing valve, flow control valve, pressure gauge, shut-off ball valves, and 3 ft (0.9 m) supply and return hoses. Instruction manual 308395. |

### TIE-DOWN COVERS

|  | Part Number | Description                                       |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------|
|                                                                                     | 222060*     | Dyna-Star, 5:1 tie-down cover for 120 lb (55 kg)  |
|                                                                                     | 207366**    | Dyna-Star, 5:1 tie-down cover for 400 lb (180 kg) |

\*Use with hold-down kit 222061. \*\*Use with hold-down kit 207361.



# MANUALLY-OPERATED GREASE PUMPS

## ORDERING OPTIONS

### MANUAL DISPENSE FROM BULK CONTAINERS



|                          |               |               |                   |                   |
|--------------------------|---------------|---------------|-------------------|-------------------|
| Package Number           | 225914*       | 225844*       | 112197**          | 112198**          |
| Fluids Handled           | Grease        | Grease        | Grease            | Grease            |
| Container Size           | 35 lb (16 kg) | 35 lb (16 kg) | 35 lb (16 kg)     | 120 lb (55 kg)    |
| Pump Part Number         | 203702        | 203702        | -                 | -                 |
| Dispense Kit             | 203703        | 203703        | Filler Adapter*** | Filler Adapter*** |
| Booster Gun              | 203697        | -             | -                 | -                 |
| Cover and Follower Plate | 203701        | 203701        | -                 | -                 |
| Instruction Manual       | 306455        | 306455        | 306436            | 306436            |




\*Delivers 1/4 oz (0.7 grams) of grease per stroke at pressures to 3,000 psi (207 bar). Can service fittings directly or be used to charge a booster gun for more efficiency at higher pressures.

\*\*Fills all three-way loading grease guns equipped with filler fittings.


\*\*\*Dispense kit 203703 can be used for direct greasing applications (must be ordered separately).

# GRACO DISPENSE VALVES AND GUNS SELECTION GUIDE

## GREASE VALVES

|                                                                                                          | Fluid                   | Type        | Maximum Working Pressure                                                    | Maximum Flow Rate    | Intended Use       | Warranty | Reference Pages |
|----------------------------------------------------------------------------------------------------------|-------------------------|-------------|-----------------------------------------------------------------------------|----------------------|--------------------|----------|-----------------|
| <b>Accu-Shot™</b><br>   | NLGI #2                 | Metered     | 8,000 psi<br>(552 bar)                                                      | 2 lb/min<br>1 kg/min | Indoor/<br>Outdoor | 1 year   | 159             |
| <b>Pro Shot™</b><br>    | Grease up to<br>NLGI #2 | Non-Metered | 8,000 psi<br>(552 bar)                                                      | 2 lb/min<br>1 kg/min | Indoor/<br>Outdoor | 1 year   | 160             |
| <b>Power Shot™</b><br> | Grease up to<br>NLGI #2 | Booster     | Supply<br>5,000 psi<br>(345 bar)<br><br>Output<br>18,000 psi<br>(1,242 bar) | N/A                  | Indoor/<br>Outdoor | 1 year   | 161             |

## GREASE GUNS

|                                                                                                         | Fluid                   | Style  | Maximum Working Pressure                              | Loading                                             | Intended Use       | Warranty | Reference Pages |
|---------------------------------------------------------------------------------------------------------|-------------------------|--------|-------------------------------------------------------|-----------------------------------------------------|--------------------|----------|-----------------|
| <b>Manual</b><br>    | Grease up to<br>NLGI #2 | Lever  | 6,000 psi to<br>10,000 psi<br>(414 bar to<br>690 bar) | Cartridge/<br>bulk fill/<br>loader fill/<br>suction | Indoor/<br>Outdoor | 1 year   | 162             |
| <b>Pneumatic</b><br> | Grease up to<br>NLGI #2 | Pistol | 6,000 psi<br>(414 bar)                                | Bulk fill/<br>loader fill                           | Indoor/<br>Outdoor | 1 year   | 162             |
| <b>Booster</b><br>   | Grease up to<br>NLGI #2 | Pistol | 10,000 psi<br>(690 bar)                               | Loader fill                                         | Indoor/<br>Outdoor | 1 year   | 162             |



# ACCU-SHOT™ METERED GREASE VALVE

## FOR HEAVY-DUTY APPLICATIONS

Designed to perform in heavy-equipment shops, fleet maintenance shops, municipal garages and higher-volume in-plant applications with longer plumbing runs and larger fluid usage.

### Battery Powered

Utilizes two standard AA alkaline batteries.

### Accurate Grease Metering

± 3% accuracy with ± 1% repeatability.

### Easy-to-Read LCD

Easily reset electronic display.

### Handles Pressure Up to 5,000 psi (345 bar)

Flow up to 36 oz/min (1 kg/min).



## TYPICAL APPLICATIONS

- Fleet services facilities
- Heavy-duty dealerships
- In-plant
- Lube trucks
- Mining

## TYPICAL FLUIDS

- Grease up to NLGI #2

## TECHNICAL SPECIFICATIONS

|                                          |                                                    |
|------------------------------------------|----------------------------------------------------|
| Maximum Working Pressure                 | 5,000 psi (345 bar)                                |
| Metering System                          | Oval gears                                         |
| Accuracy                                 | ± 3% with grease consistency (grade NLGI) 2/3      |
| Repeatability (typical)                  | ± 1% with grease consistency (grade NLGI) 2/3      |
| Storage Temperature Range                | -4°F to 158°F (-20°C to 170°C)                     |
| Operating Temperature Maximum            | 95 (%RU)                                           |
| Battery                                  | Standard alkaline batteries 2 x 1.5 Volt Size AA   |
| Battery Life                             | 18 to 24 months (depends on usage)                 |
| Dimensions (without extension) L x W x H | 8.8 in x 1.8 in x 4.4 (22.4 cm x 4.6 cm x 11.2 cm) |
| Weight                                   | 2.2 lb (1.0 kg)                                    |
| Warranty                                 | One year                                           |
| Instruction Manual                       | 309454                                             |

GREASE DISPENSE VALVES AND GUNS

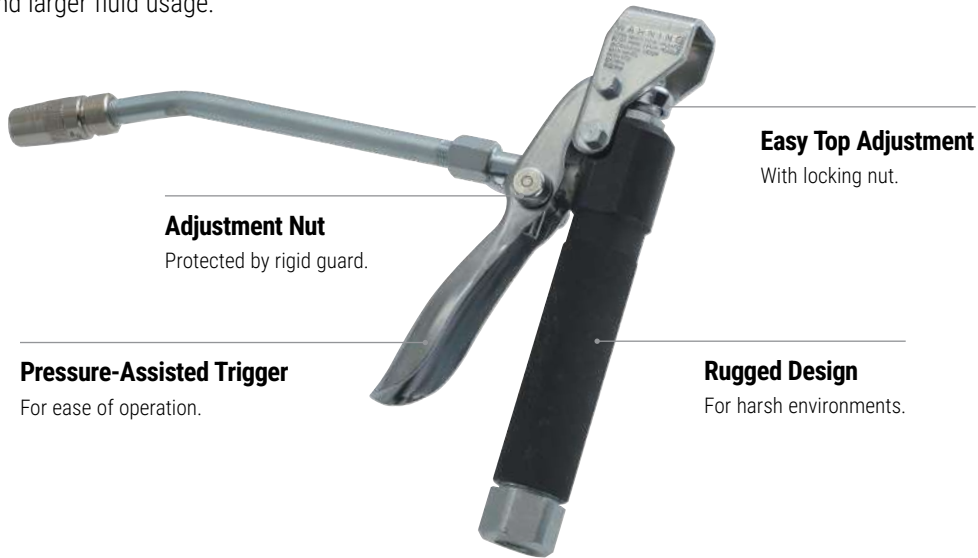
## ORDERING OPTIONS

| Part Number | Description                                                  | Includes                                                |
|-------------|--------------------------------------------------------------|---------------------------------------------------------|
| 233807      | U.S. measurement, includes extension and hydraulic coupler   | Standard nozzle extension (200389) and 1/4 in NPT inlet |
| 233933      | Metric measurement, includes extension and hydraulic coupler |                                                         |

# PRO SHOT™ NON-METERED GREASE VALVE

## FOR HEAVY-DUTY APPLICATIONS

Designed to perform in heavy-equipment shops, fleet maintenance shops, municipal garages and higher-volume in-plant applications with longer plumbing runs and larger fluid usage.



**Adjustment Nut**  
Protected by rigid guard.

**Easy Top Adjustment**  
With locking nut.

**Pressure-Assisted Trigger**  
For ease of operation.

**Rugged Design**  
For harsh environments.

### TYPICAL APPLICATIONS

- Fleet services facilities
- Heavy-duty dealerships
- In-plant
- Lube trucks
- Mining

### TYPICAL FLUIDS

- Grease up to NLGI #2

### TECHNICAL SPECIFICATIONS

|                          |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| Maximum Working Pressure | 8,000 psi (552 bar)                                             |
| Inlet Size               | 1/4 in or 3/8 in                                                |
| Wetted Parts             | Chrome vanadium, polyurethane, brass, carbon steel, alloy steel |
| Warranty                 | One year                                                        |
| Instruction Manual       | 309032                                                          |

### ORDERING OPTIONS

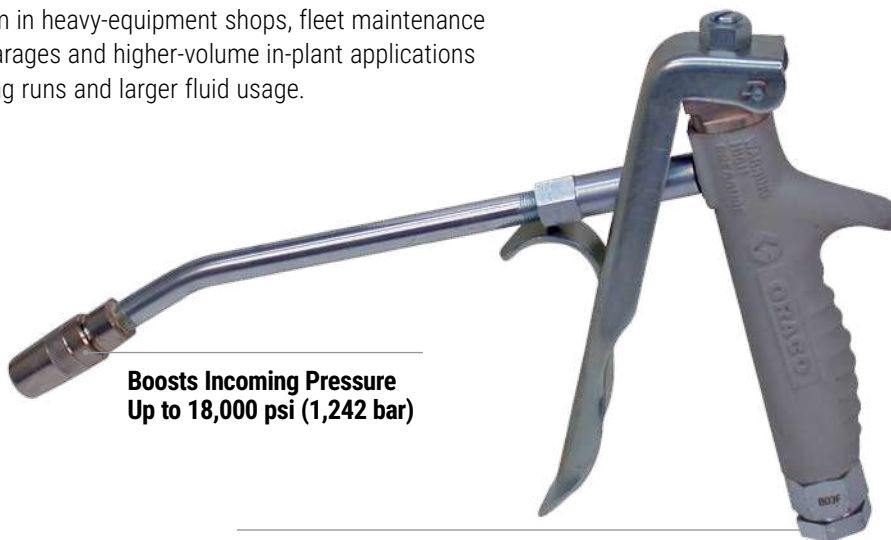
|  | Description                                                                                                 | 1/4 in NPT | 3/8 in NPT |
|--|-------------------------------------------------------------------------------------------------------------|------------|------------|
|  | Non-metered grease valve with standard nozzle extension (200389)                                            | 242056     | 242058     |
|  | Bare non-metered grease valve only                                                                          | 242055     | 242057     |
|  | Non-metered grease valve package. Includes Grease Valve (242056), Z-Swivel (202577) and Whip Hose (109148). | 224872     | -          |
|  | Non-metered grease valve package. Includes Grease Valve (242055), coupler (200325) and Whip Hose (109145).  | 26C184     | -          |



# POWER SHOT™ BOOSTER VALVE

## FOR HEAVY-DUTY APPLICATIONS

Designed to perform in heavy-equipment shops, fleet maintenance shops, municipal garages and higher-volume in-plant applications with longer plumbing runs and larger fluid usage.



**Boosts Incoming Pressure  
Up to 18,000 psi (1,242 bar)**

**Maximum Inlet Pressure  
of 5,000 psi (345 bar)**

### TYPICAL APPLICATIONS

- Fleet services facilities
- Heavy-duty dealerships
- In-plant
- Lube trucks
- Mining

### TYPICAL FLUIDS

- Grease up to NLGI #2

### TECHNICAL SPECIFICATIONS

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| Maximum Input Pressure    | 5,000 psi (34 MPa, 345 bar)                              |
| Maximum Delivery Pressure | Up to 18,000 psi (124 MPa, 1241 bar)                     |
| Inlet Size                | 1/8 NPT female                                           |
| Wetted Parts              | Alloy steel, carbon steel, chrome alloy, copper, leather |
| Weight                    | 3 lb (1.4 kg)                                            |
| Height                    | 7 in (178 mm)                                            |
| Length                    | 11.675 in (296 mm)                                       |
| Warranty                  | One year                                                 |
| Instruction Manual        | 306271                                                   |

### ORDERING OPTIONS

| Part Number | Description                                                   |
|-------------|---------------------------------------------------------------|
| 202600      | 1/8 NPT(F) Power Shot booster Valve. Includes nozzle (200389) |

### ACCESSORIES

| Part Number | Description                              |
|-------------|------------------------------------------|
| 202579      | Hose swivel (must be ordered separately) |

GREASE DISPENSE VALVES AND GUNS

# HEAVY-DUTY GREASE GUNS

## LEVER-ACTION AND PISTOL-STYLE GREASE DISPENSING GUNS

Durable design for years of trouble-free use in demanding environments. Reduces downtime and is easy to load – two- or three-way loading capability makes it easy to keep on greasing.



### ORDERING OPTIONS


|  | Part Number | Style     | Gun Type | Pressure psi (bar) | Loading                                 | Includes                                                                    |
|--|-------------|-----------|----------|--------------------|-----------------------------------------|-----------------------------------------------------------------------------|
|  | 112196      | Pneumatic | Pistol   | 6,000 (414)        | Bulk fill/<br>loader fill               | Rigid extension and hydraulic coupler                                       |
|  | 203697      | Booster   | Pistol   | 10,000 (690)       | Loader fill                             | Rigid extension                                                             |
|  | 110218      | Manual    | Lever    | 6,000 (414)        | Cartridge/<br>bulk fill                 | Rigid extension and hydraulic coupler                                       |
|  | 110216      |           |          |                    |                                         | Rigid extension, hydraulic coupler and air bleeder valve                    |
|  | 110203      |           | Pistol   | 10,000 (690)       | Cartridge/<br>bulk fill/<br>loader fill | Rigid extension, hydraulic coupler and air bleeder valve                    |
|  | 110202      |           |          |                    |                                         | 12 in (30.4 cm) flexible extension, hydraulic coupler and air bleeder valve |
|  | 110201      |           | Suction  | –                  | Suction                                 | 12 in (30.4 cm) clear plastic hose                                          |




# ACCESSORIES

## ORDERING OPTIONS


### Z-SWIVELS

|  | Maximum Working Pressure psi (bar) | Inlet  | Outlet | Thread | Part Number |
|-----------------------------------------------------------------------------------|------------------------------------|--------|--------|--------|-------------|
|                                                                                   | 6,500 (450)                        | 1/8 in | 1/4 in | NPT    | 202579      |
|                                                                                   | 6,500 (450)                        | 1/4 in | 1/4 in | NPT    | 202577      |
|                                                                                   | 6,500 (450)                        | 3/8 in | 3/8 in | NPT    | 224569      |
|                                                                                   | 6,000 (414)                        | 1/2 in | 1/2 in | NPT    | 207948      |

### STRAIGHT SWIVELS

|  | Maximum Working Pressure psi (bar) | NPT    |        | Part Number |
|------------------------------------------------------------------------------------|------------------------------------|--------|--------|-------------|
|                                                                                    |                                    | Inlet  | Outlet |             |
|                                                                                    | 8,000 (500)                        | 1/8 in | 1/8 in | 204082      |
|                                                                                    | 8,000 (500)                        | 1/4 in | 1/8 in | 204083      |
|                                                                                    | 8,000 (500)                        | 1/4 in | 1/4 in | 204084      |
|                                                                                    | 6,000 (414)                        | 1/2 in | 1/2 in | 207947      |
|                                                                                    | 5,000 (345)                        | 3/8 in | 1/2 in | 214926      |
| 5,000 (345)                                                                        | 1/2 in                             | 1/2 in | 207946 |             |

### 360° SWIVELS

|  | Part Number | Includes |         |
|-------------------------------------------------------------------------------------|-------------|----------|---------|
|                                                                                     |             | Fitting  | Coupler |
|                                                                                     | 203597      | 203198   | 200325  |
| 203198                                                                              | 203198      | -        |         |

### NOZZLES

| Part Number | Description                                                                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200389      | Standard nozzle. Includes straight 6 in (15.2 cm), 1/8 NPT(M) extension tube (197471) and tapered nose coupler (200325).                                                                          |
| 204072      | Swivel nozzle. Includes straight 6 in (15.2 cm), 1/8 NPT(M) extension tube (197471) and tapered nose coupler (200325). Coupler has 360° swivel adapter (203198) for added convenience.            |
| 204897      | Swivel nozzle. Includes straight 12 in (30.4 cm), 1/8 NPT(M) extension tube (155836) and tapered nose coupler (200325). Coupler has 360° swivel adapter (203198) for added convenience.           |
| 204204*     | Flexible 12 in (30.4 cm) hose nozzle. 1/8 NPT(M) includes tapered-nose coupler (200325).                                                                                                          |
| 203504*     | Flexible 12 in (30.4 cm) hose nozzle. 1/8 NPT(M) includes tapered-nose coupler (200325) and lock-sleeve connector (203497) for quick connection to any grease nozzle having tapered-nose coupler. |
| 109145      | 12 in (30.4 cm) hose nozzle without coupler.                                                                                                                                                      |
| 112255      | 18 in (45.8 cm) hose nozzle without coupler.                                                                                                                                                      |
| 109148*     | 30 in (76.2 cm) hose nozzle without coupler, has 1/8 NPT(M) both ends. Use as alternate for rigid nozzle with tapered-nose coupler 200325.                                                        |



GREASE DISPENSE VALVES AND GUNS

# ACCESSORIES

## ORDERING OPTIONS

### COUPLERS

| Part Number | Description                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200325      | 1/8 NPT(F) inlet standard tapered-nose coupler. Hardened jaws grip grease fittings through wide-sealing angle, but release easily. Maximum working pressure 8,000 psi (551 bar). |
| 202650      | 1/8 NPT(F) inlet standard straight-nose grease coupler for manual operated grease guns only. Maximum working pressure 3,000 psi (206 bar).                                       |
| 200021      | 1/8 NPT(F) inlet giant button-head coupler. Gives fast, positive seal on larger button-head fittings.                                                                            |



200325

### ADAPTERS

Adapters have lock-sleeve quick-connector; works with any grease nozzle with a tapered-nose coupler.

| Part Number | Description                                                                                                                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 201881      | Hydraulic-to-push adapter. Used for U-joints and low-pressure service.                                                                                                                                                                   |
| 205532      | Hydraulic-to-steel needle adapter. Used for flush fittings. 250 psi (17 bar) max. Not for air grease applications or guns.                                                                                                               |
| 205582      | Hydraulic-to-nylon needle adapter. Used for removable plugs. 250 psi (17 bar) max. Not for air grease applications or guns.                                                                                                              |
| 223187      | 90° hydraulic-to-push adapter (K-car). Refer to instruction manual 306708.                                                                                                                                                               |
| 203497      | Lock-sleeve connector. 1/8 NPT(F) outlet. Allows for quick connection to tapered-nose coupler. Inlet is standard grease fitting with sleeve to lock connector in place.                                                                  |
| 236171      | Easy-fill valve. For faster loading of Graco hand grease guns with gun loaders. Replaces hydraulic fittings on all grease guns with 1/8 NPT(F).                                                                                          |
| 204929      | Grease loader valve. For use with lever-operated, high-volume grease pumps. Permits quick bulk filling of hand-operated grease lever guns equipped with easy-fill valve 236171.                                                          |
| 205592      | Hydraulic adapter assortment package. Contains needle adapter (205568), plug adapter (205554), push adapter (201881), nylon needle adapter (205582), hydraulic-to-steel needle adapter (205532) and whip hose nozzle connector (203504). |



205532



205582



205592

### TAPERED THREAD GREASE FITTINGS, 10,000 PSI (690 BAR) (STEEL; BALL CHECK)

| Part Number | Shank  | Description                     |
|-------------|--------|---------------------------------|
| 100054      | 9/32   | 1/8 NPT straight                |
| 101277      | 1-9/32 | 1/8 NPT straight                |
| 100970      | 9/32   | 1/8 NPT 30° angle               |
| 100834      | 9/32   | 1/8 NPT 45° angle               |
| 100971      | 9/32   | 1/8 NPT 65° angle               |
| 100833      | 9/32   | 1/8 NPT 90° angle               |
| 100848      | 3/8    | 1/4 NPT 67° angle               |
| 100846      | 3/16   | 1/4-28 tapered SAE-LT straight  |
| 100847      | 13/64  | 1/4-28 tapered SAE-LT 45° angle |
| 101283      | 3/16   | 1/4-28 tapered SAE-LT 90° angle |
| 101281      | 11/32  | 1/4-28 tapered SAE-LT straight  |
| 110702      | 19/64  | 1/4-28 tapered SAE-LT 65° angle |
| 100835      | 12/32  | 1/4 NPT straight                |



100054



100970



100834



100833



100848



## ORDERING OPTIONS

### 1/4 IN TAPERED THREAD-FORMING GREASE FITTINGS, 10,000 PSI (690 BAR) (STEEL; BALL CHECK)

| Part Number | Shank | Description      |
|-------------|-------|------------------|
| 110703      | 13/64 | 1/4-28 straight  |
| 110705      | 13/64 | 1/4-28 90° angle |

### DRIVE-TYPE GREASE FITTINGS (STEEL)

| Part Number | Shank | Description                            |
|-------------|-------|----------------------------------------|
| 110706      | 3/32  | 3/16 drill straight                    |
| 110709      | 7/32  | 3/16 drill 65° angle                   |
| 110713      | 1/4   | 3/16 drill straight without ball check |
| 101312      | 7/32  | 3/16 drill straight with ball check    |
| 110710      | 1/4   | 5/16 drill straight with ball check    |
| 101287      | 17/64 | 1/4 drill straight without ball check  |



101287

### STANDARD BUTTON-HEAD GREASE FITTING (STEEL)

| Part Number | Shank | Description      |
|-------------|-------|------------------|
| 110711      | 35/64 | 1/2 NPT straight |

### GIANT BUTTON-HEAD GREASE FITTING (STEEL)

| Part Number | Shank | Description      |
|-------------|-------|------------------|
| 100854      | 1/2   | 1/4 NPT straight |

### EASY-OUTS

| Part Number | Description      |
|-------------|------------------|
| 101604      | 3/8 NPT straight |
| 101605      | 1/4 NPT straight |



101604

### GREASE ACCESSORY PACKAGES

Convenient storage box contains the following threaded fittings in the quantities listed:

| Part Number | Package Includes |                    |       |                   |
|-------------|------------------|--------------------|-------|-------------------|
|             | Quantity         | Grease Fitting No. | Shank | Description       |
| 202654      | 30               | 100054             | 9/32  | 1/8 NPT straight  |
|             | 10               | 100970             | 9/32  | 1/8 NPT 30° angle |
|             | 10               | 100833             | 9/32  | 1/8 NPT 90° angle |
|             | 20               | 100846             | 3/16  | 1/4-28 straight   |
|             | 10               | 100847             | 13/64 | 1/4-28 45° angle  |

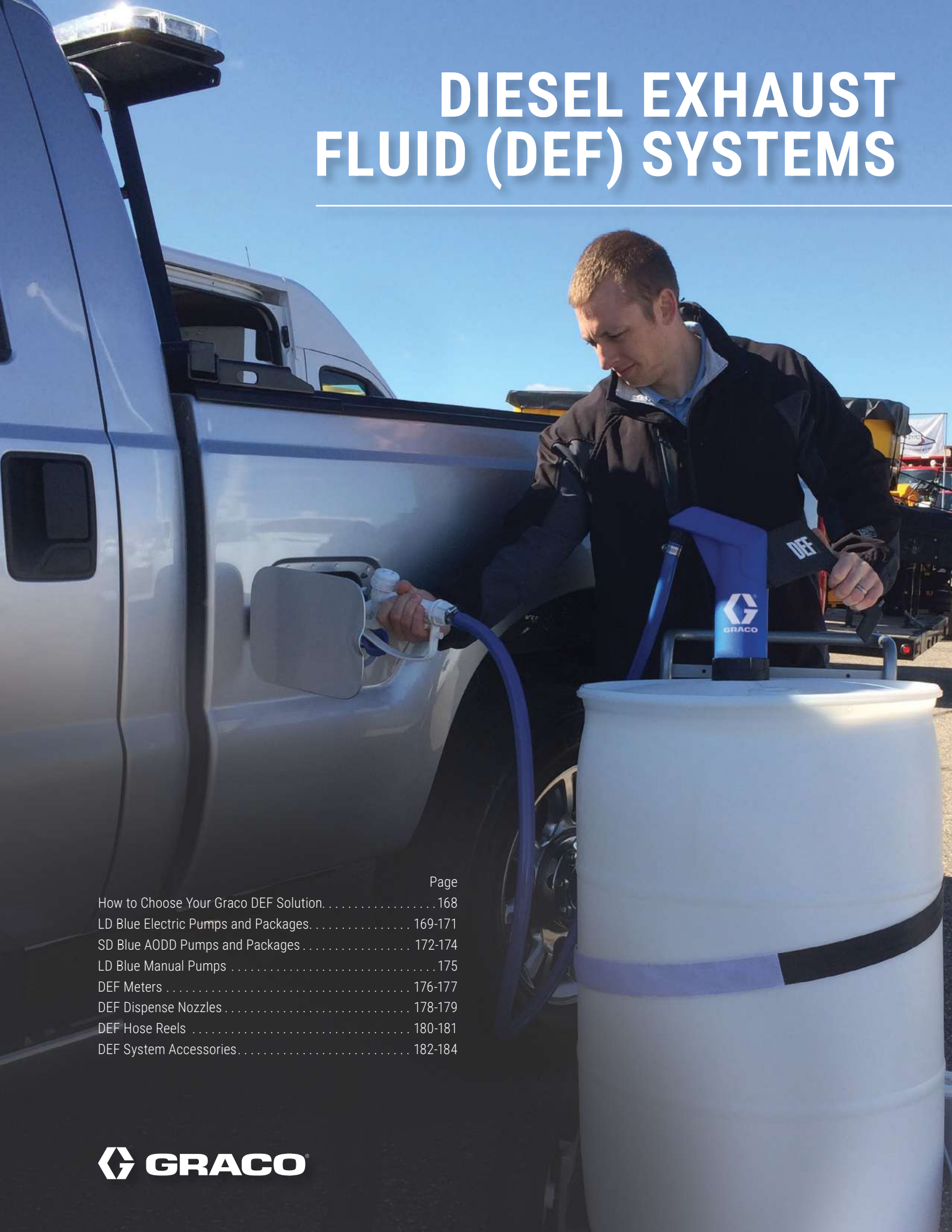


202654



# DIESEL EXHAUST FLUID (DEF) SYSTEMS

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# DIESEL EXHAUST FLUID (DEF) SYSTEMS

## FLEXIBLE INSTALLATION – SOLUTIONS FOR EVERY APPLICATION

Choose from configured packages or build a custom DEF system specific to your application with individual pumps and components. From the economical hand pumps to the high-performance electric or air-operated double diaphragm (AODD) packages, Graco has you covered. Every solution is designed with the highest-quality components for trouble-free operation.



**Tote Mount**



**Drum Mount**



**Wall Mount**

## HOW TO CHOOSE YOUR GRACO DEF SOLUTION

### **A** IDENTIFY YOUR POWER SUPPLY

Choose the pump that's right for your application. Choose the lightweight and reliable manual hand pump for small applications. The LD Blue electric pumps are recommended for applications up to 50 ft, or upgrade to the SD Blue AODD pump for longer applications, up to 200 ft.



### **B** DETERMINE YOUR CONTAINER SIZE\*

Whether dispensing from a drum or a tote container, Graco has the package that fits your needs. Fifty-five gallon drums are ideal for one or two truck operations, and for larger fleets choose 275 or 330 gallon IBC totes.

\*Tote and drum not for sale from Graco

### **C** CHOOSE YOUR ACCESSORIES

Graco offers a full line of high-quality DEF accessories to complement your installation. Select from automatic or manual dispense nozzles, closed-system couplers, in-line meters, hose reels, mounting brackets, fittings, and dispense and suction hoses.





# LD BLUE ELECTRIC PUMPS

## A RELIABLE INDUSTRIAL PUMP WITH SELF-PRIMING CAPABILITIES

Whether you own a small garage, large dealership or heavy equipment maintenance facility, Graco has a complete line of diesel exhaust fluid (DEF) products for every application. Our electric, pneumatic or manual products are engineered specifically for the advanced needs of DEF fluid and are designed to minimize downtime and dispense materials quickly without compromising chemical integrity.

### Built-In Safety and Reliability

- Automatic shut-off timer (6.5 min) incorporated into the 120V pump.
- Prevents the pump from running past the duty cycle and maximizes the life of the pump.

### Stay Up and Running Longer

Reduce downtime and get more work done with the LD Blue systems – up to twice the life of competitive pumps.



### Reduced Maintenance

Features a self-priming membrane pump that has no need for a dynamic seal, reducing the need for maintenance.

### TYPICAL APPLICATIONS

- Automotive and heavy-duty dealerships
- Agriculture
- Service and fast lube centers
- Fleet service facilities

### TYPICAL FLUIDS

- Diesel exhaust fluid

### ORDERING OPTIONS

#### PUMP ONLY

| Part Number | Description                                    |
|-------------|------------------------------------------------|
| 127642      | 120V AC electric pump, 3/4 in barbed hose tail |
| 127643      | 12V DC electric pump, 3/4 in barbed hose tail  |

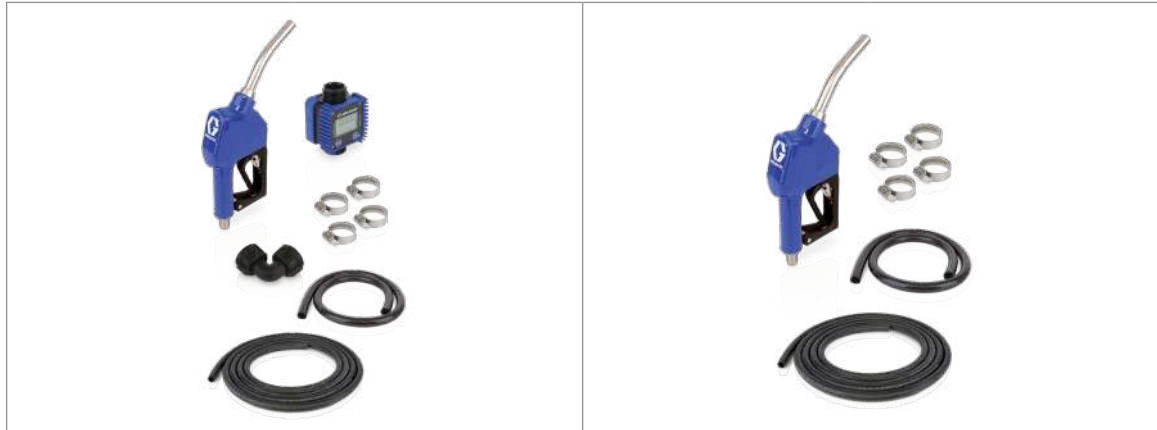
### TECHNICAL SPECIFICATIONS

|                        | 120V          | 12V           |
|------------------------|---------------|---------------|
| Maximum Flow Rate      | 9 gpm         | 9.5 gpm       |
| Maximum Fluid Pressure | 50 psi        | 50 psi        |
| RPM                    | 1,750         | 2,600         |
| Watts                  | 500           | 260           |
| Voltage                | 120V / 60hz   | 12V           |
| Maximum Amperage       | 4.5A          | 22A           |
| Duty Cycle             | 20 min ON/OFF | 20 min ON/OFF |
| Listings               | cETLus        | CE            |

# LD BLUE ELECTRIC PUMP PACKAGES

## ORDERING OPTIONS

### LD BLUE ELECTRIC PUMP PACKAGES



| Package Number       | 26C172          | 26C175          | 26C173          | 26C174          |
|----------------------|-----------------|-----------------|-----------------|-----------------|
| Mount Type           | Tote            | Tote            | Tote            | Tote            |
| Voltage              | 12 VDC          | 120 VAC         | 12 VDC          | 120 VAC         |
| Type of Nozzle       | Automatic       | Automatic       | Automatic       | Automatic       |
| Nozzle               | 127655          | 127655          | 127655          | 127655          |
| Pump                 | 127643          | 127642          | 127643          | 127642          |
| Bracket              | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Meter                | 127873          | 127873          | -               | -               |
| 1 in Elbow Fitting   | 127656          | 127656          | -               | -               |
| Dispense Hose        | 127680          | 127680          | 127680          | 127680          |
| Dispense Hose Length | 20 ft           | 20 ft           | 20 ft           | 20 ft           |
| Suction Hose         | 127679          | 127679          | 127679          | 127679          |
| Suction Hose Length  | 5 ft            | 5 ft            | 5 ft            | 2 ft            |
| Fittings (2)         | SST clamps      | SST clamps      | SST clamps      | SST clamps      |

DIESEL EXHAUST FLUID (DEF) SYSTEMS



## ORDERING OPTIONS

### LD BLUE ELECTRIC PUMP PACKAGES



|                      |                 |                 |                 |                 |                 |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Package Number       | 24V641          | 24V644          | 24V645          | 24V656          | 24V646          |
| Mount Type           | Tote            | Tote            | Tote            | Drum            | Tote            |
| Voltage              | 120V            | 120V            | 120V            | 120V            | 12V             |
| Type of Nozzle       | Automatic       | Manual          | Automatic       | Automatic       | Automatic       |
| Nozzle               | 127649          | 125078          | 127649          | 127649          | 127649          |
| Pump                 | 127642          | 127642          | 127642          | 127642          | 127643          |
| Bracket              | Stainless steel | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Meter                | 127663          | -               | -               | -               | 127663          |
| 1 in Elbow Fitting   | 127656          | -               | -               | -               | 127656          |
| Dispense Hose        | 24W161          | 24W161          | 24W161          | 24W161          | 24W161          |
| Dispense Hose Length | 20 ft           | 20 ft           | 20 ft           | 20 ft           | 20 ft           |
| Suction Hose Length  | 5 ft            | 5 ft            | 5 ft            | 5 ft            | 5 ft            |
| Fittings (2)         | SST clamps      | SST clamps      | SST clamps      | SST clamps      | SST clamps      |



Package 24V646 installed on tote  
(not included in package).



Package 24V656 installed on 55 gallon drum  
(not included in package).

# SD BLUE HUSKY 515 PUMP

## SUPERIOR-PERFORMING AODD PUMP CAPABLE OF HIGHER OUTPUT OVER LONGER RUNS

Whether for a small garage, large dealership or heavy equipment maintenance facility, our pneumatic pumps are engineered specifically for the advanced needs of DE fluid and are designed to minimize downtime and dispense materials quickly without compromising chemical integrity.

### Modular Air Valve

Stall-free, low-pulsation air valve provides smooth and rapid changeover for increased efficiency and minimizes downtime.

### Robust Design

Bolt-through fluid cover design eliminates leaks and provides better safety and more reliability.

### Versatility

The Husky 515 pump delivers up to 15 gpm and works on as little as 30 psi.

### Rugged Construction

Resists corrosion for reliable performance and long life.



### TYPICAL APPLICATIONS

- Automotive and heavy-duty dealerships
- Mining
- Service and fast lube centers
- Fleet service facilities
- In-plant
- Lube trucks

### TYPICAL FLUIDS

- Diesel exhaust fluid

### TECHNICAL SPECIFICATIONS

|                         |                |
|-------------------------|----------------|
| Maximum Flow Rate       | 15 gpm         |
| Maximum Fluid Pressure  | 50 psi         |
| Air Operating Range     | 30-50 psi      |
| Air Inlet               | 1/4 in NPT(F)  |
| Pump Inlet              | 3/4 in BSPP(F) |
| Hose Inlet              | 3/4 in BSPP(F) |
| Pump Outlet             | 3/4 in BSPP(F) |
| Maximum Air Consumption | 28 scfm        |

### ORDERING OPTIONS

| Part Number | Description            | Inlet/Outlet |
|-------------|------------------------|--------------|
| 24G745      | SD Blue Husky 515 pump | 3/4 in BSPP  |



# SD BLUE PUMP PACKAGES

## ORDERING OPTIONS

### SD BLUE PUMP TOTE PACKAGES



|                                 | Deluxe           |                  | Standard   |            |
|---------------------------------|------------------|------------------|------------|------------|
| Package Number                  | 24F531           | 24F878           | 24V677     | 24V678     |
| Mount Type                      | Tote/Wall        | Tote/Wall        | Tote/Wall  | Tote/Wall  |
| Type of Nozzle                  | Automatic        | Automatic        | Automatic  | Automatic  |
| Air-Operated Pump               | 24G745           | 24G745           | 24G745     | 24G745     |
| Mounting Bracket                | 24F870           | 24F870           | 24W186     | 24W186     |
| Valve/Nozzle                    | 24F529           | 24F529           | 127649     | 127649     |
| Meter                           | 24G738           | -                | 127663     | -          |
| Drum Quick Connect Kit          | 24F532           | 24F532           | -          | -          |
| Air Regulator and Gauge         | 110147           | 110147           | -          | -          |
| Air Shut-Off Ball Valve, Vented | 110223           | 110223           | -          | -          |
| 50 psi Air Safety Valve         | 124963           | 124963           | 116306     | 116306     |
| Dispense Hose                   | 124603           | 124603           | 24W161     | 24W161     |
| Dispense Hose Length            | 20 ft            | 20 ft            | 20 ft      | 20 ft      |
| Suction Hose                    | 124581           | 124581           | 24W149     | 24W149     |
| Suction Hose Length             | 6 ft             | 6 ft             | 5 ft       | 5 ft       |
| Fittings (2)                    | 3/4 in BSPP(MBE) | 3/4 in BSPP(MBE) | SST Clamps | SST Clamps |

DIESEL EXHAUST FLUID (DEF) SYSTEMS

Package 24V677 installed on a 275 gallon tote (tote and coupler not included in package).



# SD BLUE PUMP PACKAGES

## ORDERING OPTIONS

### SD BLUE PUMP DRUM PACKAGES



|                                 | Deluxe         |                | Standard   |            |
|---------------------------------|----------------|----------------|------------|------------|
| Package Number                  | 24F947         | 24M499         | 24V679     | 24V686     |
| Mount Type                      | Drum           | Drum           | Drum       | Drum       |
| Type of Nozzle                  | Manual         | Automatic      | Manual     | Automatic  |
| Air-Operated Pump               | 24G745         | 24G745         | 24G745     | 24G745     |
| Mounting Bracket                | 24F679         | 24F679         | 24W185     | 24W185     |
| Valve/Nozzle                    | 125078         | 24F529         | 125078     | 127649     |
| Meter                           | -              | 24H293         | -          | 127663     |
| Drum Quick Connect Kit          | 24F532         | 24F532         | -          | -          |
| Air Regulator and Gauge         | 110147         | 110147         | -          | -          |
| Air Shut-Off Ball Valve, Vented | 110223         | 110223         | -          | -          |
| 50 psi Air Safety Valve         | 124963         | 124963         | 116306     | 116306     |
| Dispense Hose                   | 125079         | 124671         | 24W154     | 24W154     |
| Dispense Hose Length            | 12 ft          | 12 ft          | 12 ft      | 12 ft      |
| Suction Hose                    | 124875         | 124875         | 24W148     | 24W148     |
| Suction Hose Length             | 2 ft           | 2 ft           | 2 ft       | 2 ft       |
| Fittings (2)                    | 3/4 in BSPP(M) | 3/4 in BSPP(M) | SST Clamps | SST Clamps |

DIESEL EXHAUST FLUID (DEF) SYSTEMS



# LD BLUE MANUAL PUMPS



## Features and Benefits

- Lightweight, reliable and cost-effective solution for dispensing DEF from 55 gallon drums
- Quick drum installation and change-out with integrated 2 inch bung adapter
- Fast delivery capable of 11 oz per stroke
- Adjustable telescoping downtube

## TYPICAL APPLICATIONS

- Automotive and heavy-duty dealerships
- Agriculture
- Service and fast lube centers
- Fleet service facilities
- In-plant

## TYPICAL FLUIDS

- Diesel exhaust fluid

## TECHNICAL SPECIFICATIONS

|                   |                  |
|-------------------|------------------|
| Maximum Flow Rate | 11 oz per stroke |
|-------------------|------------------|

## ORDERING OPTIONS

| Part Number | Description                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 127647      | DEF hand pump with drum-length adjustable downtube (125479)                                                                              |
| 24G636      | DEF hand pump (127647), 6 ft dispense hose with ball valve (125478), drum length adjustable downtube (125479)                            |
| 127875      | DEF hand pump (127647), 6 ft dispense hose with ball valve (125478), drum length adjustable downtube (125479), LD manual nozzle (125078) |

## ACCESSORIES

| Part Number | Description                                   |
|-------------|-----------------------------------------------|
| 125479      | Drum length adjustable downtube for hand pump |

# SDI15 IN-LINE METER



## Features and Benefits

- Tracks totals in two modes – reset for periodic history and non-reset for meter life
- Durable design for rugged use
- Easy to use – dispenses pints, quarts, liters or gallons
- 0.5 gpm to 15 gpm flow rate
- 1500 psi maximum pressure, 1/2 in NPT inlet

## TECHNICAL SPECIFICATIONS

|                             |                                                                            |
|-----------------------------|----------------------------------------------------------------------------|
| Flow Range                  | 0.5 gpm to 15 gpm (1.9 lpm to 57 lpm)                                      |
| Maximum Working Pressure    | 1,500 psi (103 bar)                                                        |
| Units of Measure            | Quarts, pints, gallons, liters (factory-set to quarts)                     |
| Weight                      | 1.8 lb (0.8 kg)                                                            |
| Accuracy                    | ± 2.5%                                                                     |
| Inlet/Outlet                | 1/2 in BSPP                                                                |
| Maximum Totalizer           | 99,999                                                                     |
| Maximum Recorded Dispense   | 999.99                                                                     |
| Operating Temperature Range | -4°F to 122°F (-20°C to 50°C)                                              |
| Storage Temperature Range   | -13°F to 122°F (-25°C to 50°C)                                             |
| Outdoor Use                 | No                                                                         |
| Battery                     | 2 AA alkaline                                                              |
| Wetted Parts                | Stainless steel, PBT (polybutylene terephthalate), nickel, fluoroelastomer |
| Meter Pressure Loss         | 22 psi (1.5 bar) @ 14 gpm (53 lpm)                                         |
| Instruction Manual          | 313048                                                                     |

## TYPICAL APPLICATIONS

- Automotive and heavy-duty dealerships
- Mining
- Service and fast lube centers
- Fleet service facilities
- In-plant
- Lube trucks

## TYPICAL FLUIDS

- Diesel exhaust fluid

## ORDERING OPTIONS

| Part Number | Description                                                                                                                                                                         |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 24G738      | SDI15 DEF meter, 1/2 in BSPP(F/F), 1,500 psi, 0.5 to 15 gpm                                                                                                                         |
| 24H293      | SDI15 meter kit with fittings for SST auto nozzle. Includes SDI15 Meter (24G738), Swivel (124964), Nipple Fitting (24H292), Adapter Fitting (16G760) and Elastomeric Seal (124965). |



# LD BLUE IN-LINE METER



## Features and Benefits

- Easy to install – use in-line or at the end of the dispense hose
- Impulse signals – single channel or reed switch
- 1.3 gpm to 26.4 gpm flow rate
- Rotatable display – 4 positions
- 1 in BSPP(M) inlet and outlet. Includes 1 in BSPP(F) coupler.

## TECHNICAL SPECIFICATIONS

|                             |                                                        |
|-----------------------------|--------------------------------------------------------|
| Flow Range                  | 1.3 gpm to 26.4 gpm (4.9 lpm to 100 lpm)               |
| Maximum Working Pressure    | 145 psi (10 bar)                                       |
| Units of Measure            | Quarts, pints, gallons, liters (factory-set to quarts) |
| Weight                      | 0.6 lb (0.25 kg)                                       |
| Accuracy                    | ± 1.0%                                                 |
| Inlet/Outlet                | 1 in BSPP(M)                                           |
| Maximum Totalizer           | 99,999                                                 |
| Maximum Recorded Dispense   | 999.99                                                 |
| Operating Temperature Range | 14°F to 122°F (-10°C to 50°C)                          |
| Storage Temperature Range   | -4°F to 158°F (-20°C to 70°C)                          |
| Outdoor Use                 | No                                                     |
| Battery                     | 2AAA alkaline                                          |
| Wetted Parts                | SST, plastic, rubber                                   |
| Meter Pressure Loss         | 5 psi (0.3 bar) @ 26.4 gpm (100 lpm)                   |
| Instruction Manual          | 333467                                                 |

## TYPICAL APPLICATIONS

- Automotive and heavy-duty dealerships
- Service and fast lube centers
- Fleet service facilities
- In-plant


## TYPICAL FLUIDS

- Diesel exhaust fluid

## ORDERING OPTIONS

| Part Number | Description                                   |
|-------------|-----------------------------------------------|
| 127663      | LD digital in-line turbine meter, LCD display |

## ACCESSORIES

|                                                                                     | Part Number | Description                                     |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------|
|  | 127800      | Adapter – SD auto nozzle connection to LD meter |

# LD BLUE AUTOMATIC NOZZLES



## Features and Benefits

- Easy break-away system for low-cost repairs if the spout becomes detached
- Choose with or without built-in meter
- 4 gpm to 12 gpm flow rate
- 50 psi maximum pressure
- Optional mis-filling system to prevent mis-fills
- Stainless steel spout

## TECHNICAL SPECIFICATIONS

|                             | Automatic Shut-Off Nozzle           | Automatic Shut-Off Nozzle with Meter                   |
|-----------------------------|-------------------------------------|--------------------------------------------------------|
| Flow Range                  | 4 gpm to 12 gpm (15 lpm to 45 lpm)  | 4 gpm to 12 gpm (15 lpm to 45 lpm)                     |
| Maximum Working Pressure    | 50 psi (3.5 bar)                    | 50 psi (3.5 bar)                                       |
| Units of Measure            | -                                   | Quarts, pints, gallons, liters (factory-set to quarts) |
| Weight                      | 1.3 lb (0.6 kg)                     | 1.8 lb (0.8 kg)                                        |
| Accuracy                    | -                                   | ± 1%                                                   |
| Inlet                       | 1 in BSP or 3/4 in hose barb        | 1 in BSP or 3/4 in hose barb                           |
| Maximum Totalizer           | -                                   | 999,999                                                |
| Maximum Recorded Dispense   | -                                   | 99,999                                                 |
| Operating Temperature Range | -4°F to 130°F (-20°C to 55°C)       | 14°F to 122°F (-10°C to 50°C)                          |
| Storage Temperature Range   | -40°F to 140°F (-40°C to 60°C)      | -4°F to 158°F (-20°C to 70°C)                          |
| Outdoor Use                 | Yes                                 | No                                                     |
| Battery                     | -                                   | 2AA alkaline                                           |
| Wetted Parts                | SST, rubber, plastic                | SST, rubber, plastic                                   |
| Meter Pressure Loss         | 13 psi (0.9 bar) @ 9.3 gpm (35 lpm) | 13 psi (0.9 bar) @ 9.3 gpm (35 lpm)                    |
| Instruction Manual          | 333468                              | 333469                                                 |

## TYPICAL APPLICATIONS

- Automotive and heavy-duty dealerships
- Service and fast lube centers
- Fleet service facilities
- In-plant




## TYPICAL FLUIDS

- Diesel exhaust fluid

## ORDERING OPTIONS

| Part Number | Description                                                                                      |
|-------------|--------------------------------------------------------------------------------------------------|
| 127649      | LD automatic nozzle with stainless steel breakaway spout                                         |
| 127650      | LD automatic nozzle with built-in electronic turbine meter, with stainless steel breakaway spout |

## ACCESSORIES

|                                                                                     | Part Number | Description                                            |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------------|
|  | 127651      | Spout replacement kit for LD nozzles 127649 and 127650 |
|  | 127652      | Magnetic mis-fill spout kit for LD automatic nozzles   |
|  | 127654      | Magnetic adapter for mis-fill kit                      |



# SD BLUE NOZZLE



### Features and Benefits

- Heavy-duty design
- Automatic shut-off valve with stainless steel nozzle
- 11 gpm flow rate
- 50 psi maximum pressure
- 3/4 in BSPP inlet

### TYPICAL APPLICATIONS

- Automotive and heavy-duty dealerships
- Mining
- Service and fast lube centers
- Fleet service facilities
- In-plant
- Lube trucks

### TYPICAL FLUIDS

- Diesel exhaust fluid

### ORDERING OPTIONS

| Part Number | Description                                                     |
|-------------|-----------------------------------------------------------------|
| 124398      | SD automatic shut-off SST nozzle without swivel, 3/4 in BSPP(F) |
| 24F529      | SD automatic shut-off SST nozzle with swivel, 3/4 in BSPP(F)    |
| 127655      | SD automatic shut-off SST nozzle, 3/4 in hose barb              |

DIESEL EXHAUST FLUID (DEF) SYSTEMS

# LD BLUE MANUAL NOZZLE

### Features and Benefits

- Manual shut-off valve with stainless steel nozzle
- High 20 gpm flow rate
- 50 psi maximum pressure
- 3/4 in BSPP inlet
- Lightweight – under 1 lb

### TYPICAL APPLICATIONS

- Automotive and heavy-duty dealerships
- Service and fast lube centers
- Fleet service facilities
- In-plant

### TYPICAL FLUIDS

- Diesel exhaust fluid

### ORDERING OPTIONS

| Part Number | Description                         |
|-------------|-------------------------------------|
| 125078      | LD manual DEF nozzle with SST spout |



# LDX DEF HOSE REELS



## Features and Benefits

- For use with SD and LD pumps (LD pump with manual nozzle only)
- Stainless steel fluid section with open porting ensures high fluid flow with minimal pressure loss
- Flexible positioning of guide arm for mounting on bench, overhead, wall, tote or utility truck
- 150 psi maximum pressure
- 1/2 in x 45 ft inlet hose with 1/2 in BSPT(M) swivel connection to provide leak-free connection

## TYPICAL APPLICATIONS

- Small maintenance shops
- Tire maintenance shops
- Small fast lubes
- Independent repair facilities
- Industrial manufacturing facilities

## TYPICAL FLUIDS

- Diesel exhaust fluid

## TECHNICAL SPECIFICATIONS

|                             |                                       |
|-----------------------------|---------------------------------------|
| Operating Temperature Range | -40°F to 158°F (-40°C to 70°C)        |
| Wetted Parts                | Hybrid polymer, brass, nitrile rubber |
| Sound Pressure Level        | 80 dB(A)                              |
| Sound Power Level           | 87 dB(A)                              |
| Instruction Manual          | 3A8216                                |

## ORDERING OPTIONS

### HOSE REELS

| Part Number | Description                                                                     |
|-------------|---------------------------------------------------------------------------------|
| HEL015      | LDX Series, DEF, 1/2 in (13 mm) inlet, 1/2 in x 45 ft (13 mm x 14 m) hose, BSPT |

### ACCESSORIES

| Part Number | Description                             |
|-------------|-----------------------------------------|
| 25U370      | Inlet kit                               |
| 18F444      | 1/2 in BSPT to 3/4 in hose barb adapter |
| 18F445      | 1/2 in to 3/4 in adapter, BSPT          |



# XD 30 DEF HOSE REELS



## Features and Benefits

- For use with SD and LD pumps (LD pump with manual nozzle only)
- Stainless steel fluid section with open porting ensures high fluid flow with minimal pressure loss
- Flexible positioning of guide arm for mounting on bench, overhead, wall, tote or utility truck
- 50 psi maximum pressure
- 3/4 in x 50 ft inlet hose with 3/4 in BSPP(M) swivel connection to provide leak-free connection

## TYPICAL APPLICATIONS

- Automotive and heavy-duty dealerships
- Mining
- Service and fast lube centers
- Fleet service facilities
- In-plant
- Lube trucks

## TYPICAL FLUIDS

- Diesel exhaust fluid

## TECHNICAL SPECIFICATIONS

|                               |                                        |
|-------------------------------|----------------------------------------|
| Operating Temperature Range   | 12°F to 140°F (-11°C to 60°C)          |
| Maximum Working Pressure      | 50 psi (3.5 bar)                       |
| Wetted Parts (bare reel only) | Zinc plated steel, polyurethane, steel |
| Weight (without hose)         | 98 lb (44.5 kg)                        |
| Sound Pressure Level          | 85.8 dB (A)                            |
| Sound Power Level             | 94.9 dB (A)                            |
| Instruction Manual            | 3A1767                                 |

## ORDERING OPTIONS

### HOSE REELS

| Part Number | Description                                       |
|-------------|---------------------------------------------------|
| HSDD5B      | XD 30 DEF hose reel, 3/4 in x 50 ft, blue, BSPP   |
| HSDD5F      | XD 30 DEF hose reel, 3/4 in x 50 ft, yellow, BSPP |
| HSDDDB      | XD 30 DEF hose reel, bare, blue, BSPP             |
| HSDDDF      | XD 30 DEF hose reel, bare, yellow, BSPP           |

### HOSE REEL INLET KITS


A hose inlet kit is required when ordering an XD reel.

| Part Number | Description                                                                      |
|-------------|----------------------------------------------------------------------------------|
| 24W250      | 2 ft DEF inlet hose kit for XD 30 reels. 3/4 in BSPP(F) x cut end and 90° elbow. |
| 24W251      | 6 ft DEF inlet hose kit for XD 30 reels. 3/4 in BSPP(F) x cut end and 90° elbow. |
| 124875      | 2 ft DEF hose, 3/4 in BSPP(M) x cut end (inlet hose)                             |
| 124581      | 6 ft DEF hose, 3/4 in BSPP(M) x cut end (inlet hose)                             |


# ACCESSORIES

## ORDERING OPTIONS

### MOUNTING BRACKETS

|  | Part Number | Description                                        |
|-----------------------------------------------------------------------------------|-------------|----------------------------------------------------|
|                                                                                   | 24F870      | AODD tote/wall mounting bracket with nozzle holder |
|                                                                                   | 24F679      | AODD drum mounting bracket with nozzle holder      |
|                                                                                   | 124541      | AODD nozzle bath holder                            |

### DISPENSE AND SUCTION HOSES

|  | Standard | Part Number                                  | Description                                              |
|------------------------------------------------------------------------------------|----------|----------------------------------------------|----------------------------------------------------------|
|                                                                                    |          | 24W148                                       | 2 ft suction hose kit with (2) hose clamps               |
|                                                                                    |          | 24W149                                       | 5 ft suction hose kit with (2) hose clamps               |
|                                                                                    |          | 24W190                                       | 6 ft dispense hose kit with (2) hose clamps              |
|                                                                                    |          | 24W154                                       | 12 ft dispense hose kit with (2) hose clamps             |
|                                                                                    | 24W161   | 20 ft dispense hose kit with (2) hose clamps |                                                          |
|                                                                                    | Deluxe   | 124875                                       | 2 ft suction hose, 3/4 in BSPP(M) x cut end (inlet hose) |
|                                                                                    |          | 124581                                       | 6 ft suction hose, 3/4 in BSPP(M) x cut end (inlet hose) |
|                                                                                    |          | 124671                                       | 12 ft dispense hose, 3/4 in BSPP x 3/4 in BSPP           |
|                                                                                    |          | 125079                                       | 12 ft dispense hose, 3/4 in BSPP x cut end               |
|                                                                                    |          | 124603                                       | 20 ft dispense hose, 3/4 in BSPP x 3/4 in BSPP           |
|                                                                                    |          | 125074                                       | 20 ft dispense hose, 3/4 in BSPP x cut end               |
|                                                                                    |          | 125242                                       | 50 ft dispense hose, 3/4 in BSPP x 3/4 in BSPP           |

DIESEL EXHAUST FLUID (DEF) SYSTEMS



## ORDERING OPTIONS

### FITTINGS

|                                                                                     | Part Number | Description                                                         |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------|
|    | 127656      | 1 in BSP(F) elbow fitting, black                                    |
|    | 127657      | 1 in BSP(F) x 3/4 in barb hose tail, black                          |
|    | 127720      | 1 in BSP(F) x 1 in BSP(F) linear socket, black                      |
|   | 127804      | 3/4 in x 1 in BSPP(F) swivel fitting with seals                     |
|  | 127805      | 1 in BSPP(F) x 1 in BSPP(F) coupler                                 |
|  | 127806      | 1 in BSPP(M/F) swivel, white                                        |
|  | 127815      | 3/4 in BSP x 3/4 in barb SST swivel hose tail                       |
|  | 127823      | 1 in BSP x 3/4 in barb elbow, white                                 |
|  | 116306      | 1/4 in NPT, 50 psi air safety valve for Standard AODD pump packages |
|  | 124963      | 1/8 in NPT, 50 psi air safety valve for Deluxe AODD pump packages   |
|  | 24F524      | 3/4 in BSPP(M) x 3/4 in BSPP(F) SST swivel                          |

# CLOSED-SYSTEM COUPLER ACCESSORIES

## ORDERING OPTIONS

Maintaining fluid purity is essential to the longevity of your equipment and maintaining selective catalytic reduction (SCR) engines. With a closed-system design you can minimize fluid contamination and prevent spills. Choose from a variety of industry-accepted closed-system inlet kits to best suit your needs.

### COLDER



DrumQuick® PRO Quick Connect Coupler System. Economical polypropylene assembly can withstand thousands of quick and fast connections.

|                                                                                     | Part Number | Description                                                                                                   |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------|
|    | 24F532      | Colder closed-system coupler kit – includes drum coupler (124548), drum insert (124549) and downtube (124550) |
|    | 124548      | Colder closed-system drum coupler                                                                             |
|  | 124549      | Colder closed-system drum insert                                                                              |
|  | 125014      | Colder closed-system drum insert with buttress thread                                                         |
|  | 124550      | Colder closed-system 47 in downtube                                                                           |

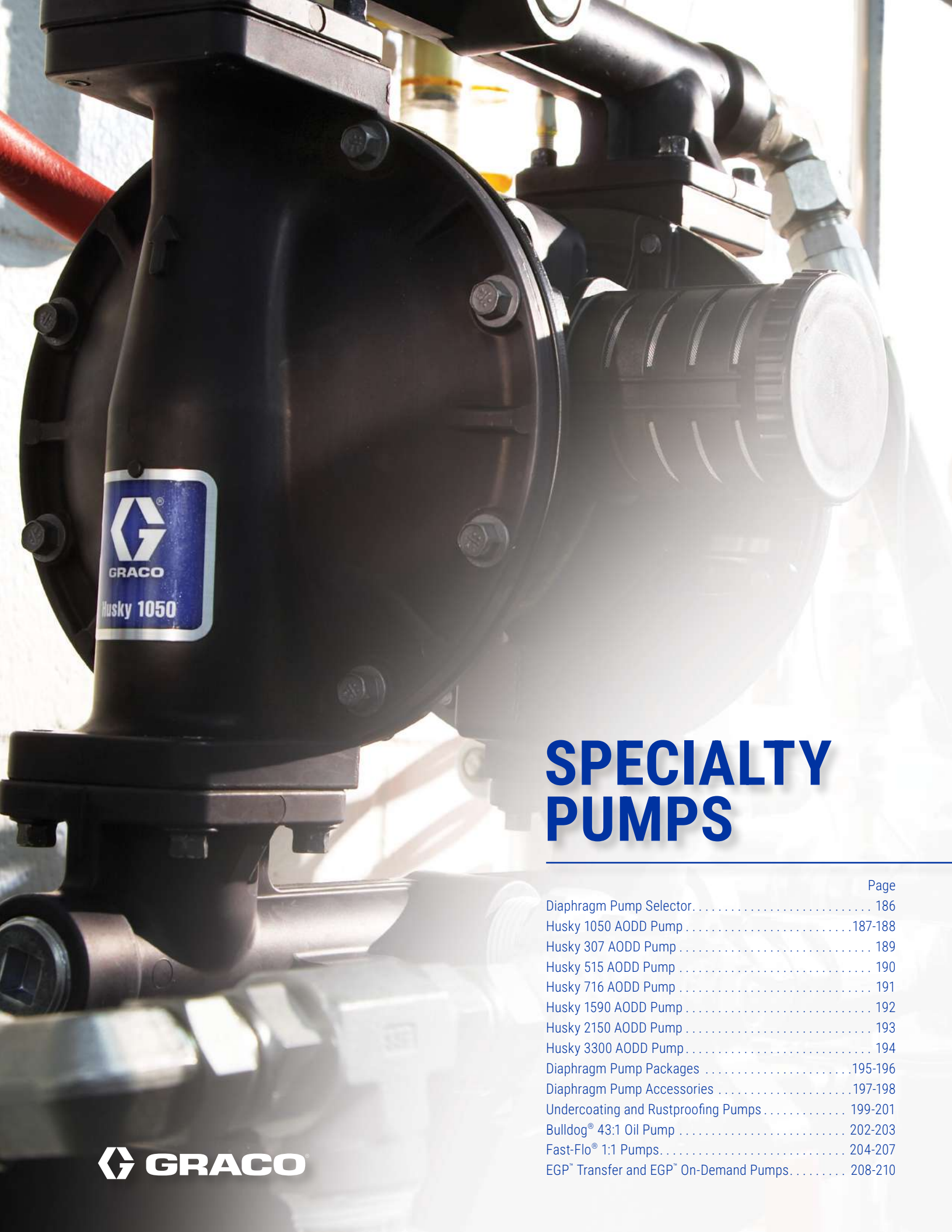
DrumQuick® is a registered trademark of Colder Products Company.

### MICRO MATIC

Reusable Stainless Valve (RSV) is ideal for multi-use applications and is simple to integrate with drums, totes and custom packages.

|                                                                                     | Part Number | Description                                                                              |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------|
|  | 17C908      | Micro Matic RSV dispense coupler, 3/4 in barbed outlet, 4 pin, stainless steel           |
|  | 127637      | Micro Matic RSV container valve, 2.5 in x 5 in, 4 cam, stainless steel valve, EPDM seals |
| Image to come                                                                       | 2008242     | DEF Downtube                                                                             |

DIESEL EXHAUST FLUID (DEF) SYSTEMS



# SPECIALTY PUMPS

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| Diaphragm Pump Selector.....                | 186     |
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# DIAPHRAGM PUMP SELECTION GUIDE

| Husky Series                                                                                             | Part Number | Pump Description                                                   | Fluids                                                                                                                                                             | Listings | Max PSI              | Reference Pages |
|----------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------|-----------------|
| <b>Husky 307</b><br>    | D31255      | Husky 307<br>Acetal – 3/8 in<br>Acetal/TPE                         | <ul style="list-style-type: none"> <li>• Oil evacuation</li> <li>• Oil transfer</li> <li>• Water</li> <li>• Antifreeze</li> <li>• Windshield wash fluid</li> </ul> | –        | 100 psi<br>(6.9 bar) | 191             |
| <b>Husky 515</b><br>    | 243669      | Husky 515<br>Acetal Split Inlet – 3/4 in<br>Acetal/Buna Dual Inlet | <ul style="list-style-type: none"> <li>• 50/50 windshield wash solution</li> <li>• Water</li> <li>• Antifreeze</li> </ul>                                          | –        | 100 psi<br>(6.9 bar) | 192             |
| <b>Husky 716</b><br>    | 241906      | Husky 716<br>Aluminum – 3/4 in<br>Aluminum/Buna-N                  | <ul style="list-style-type: none"> <li>• Oil evacuation</li> <li>• Oil transfer</li> <li>• Water</li> <li>• Antifreeze</li> <li>• Windshield wash fluid</li> </ul> | –        | 100 psi<br>(6.9 bar) | 193             |
| <b>Husky 1050</b><br>  | 647016      | Husky 1050<br>Aluminum – 1 in<br>Aluminum/TPE                      | <ul style="list-style-type: none"> <li>• Water</li> <li>• Antifreeze</li> <li>• Fuel transfer</li> <li>• Gasoline (up to 10% ethanol)</li> </ul>                   | UL       | 100 psi<br>(6.9 bar) | 189-190         |
| <b>Husky 1050</b><br> | 647731      | Husky 1050<br>Aluminum – 1 in<br>Aluminum/Buna-N                   | <ul style="list-style-type: none"> <li>• Oil evacuation</li> <li>• Oil transfer</li> </ul>                                                                         | UL       | 100 psi<br>(6.9 bar) | 189-190         |
| <b>Husky 1050</b><br> | 647648      | Husky 1050<br>Aluminum – 1 in<br>Aluminum/TPE                      | <ul style="list-style-type: none"> <li>• Fuel dispense</li> <li>• Gasoline (up to 10% ethanol)</li> </ul>                                                          | UL       | 50 psi<br>(3.5 bar)  | 189-190         |
| <b>Husky 1590</b><br> | DB3525      | Husky 1590<br>Aluminum – 1.5 in<br>Aluminum/TPE                    | <ul style="list-style-type: none"> <li>• Oil evacuation</li> <li>• Oil transfer</li> <li>• Water</li> <li>• Antifreeze</li> </ul>                                  | –        | 120 psi<br>(8.3 bar) | 194             |
| <b>Husky 2150</b><br> | DF3525      | Husky 2150<br>Aluminum – 2 in<br>Aluminum/TPE                      | <ul style="list-style-type: none"> <li>• Oil evacuation</li> <li>• Oil transfer</li> <li>• Water</li> <li>• Antifreeze</li> </ul>                                  | –        | 120 psi<br>(8.3 bar) | 195             |
| <b>Husky 3300</b><br> | 652002      | Husky 3300<br>Aluminum – 3 in<br>Aluminum/TPE                      | <ul style="list-style-type: none"> <li>• Oil evacuation</li> <li>• Oil transfer</li> <li>• Water</li> <li>• Antifreeze</li> </ul>                                  | –        | 125 psi<br>(8.6 bar) | 196             |



# HUSKY 1050 AODD PUMP

## EFFICIENCY, PERFORMANCE AND BEST-IN-CLASS ENGINEERING

Husky pneumatic double-diaphragm pumps feature a stall-free, low-pulsation air valve, which provides a smooth and rapid changeover. Typical applications include oil transfer and evacuation, fuel dispense and transfer, windshield wash solution dispense, and water and antifreeze dispense. Some models UL-approved for use in pumping gasoline and gasoline/alcohol blends up to 10% ethanol, diesel fuel, fuel oil and lubricating oil.



### Modular Air Valve

Stall-free, low-pulsation operation provides smooth and rapid changeover

### One-Piece Center Section

Eliminates air leaks for more efficient operation

### Longer Diaphragm Life

Up to 5x longer diaphragm life for less maintenance and downtime

### Four-Bolt Joint Design

Bolted design provides even sealing pressure for leak-free operation

### Multiple Ports

Increased number of ports for installation flexibility

SPECIALTY PUMPS

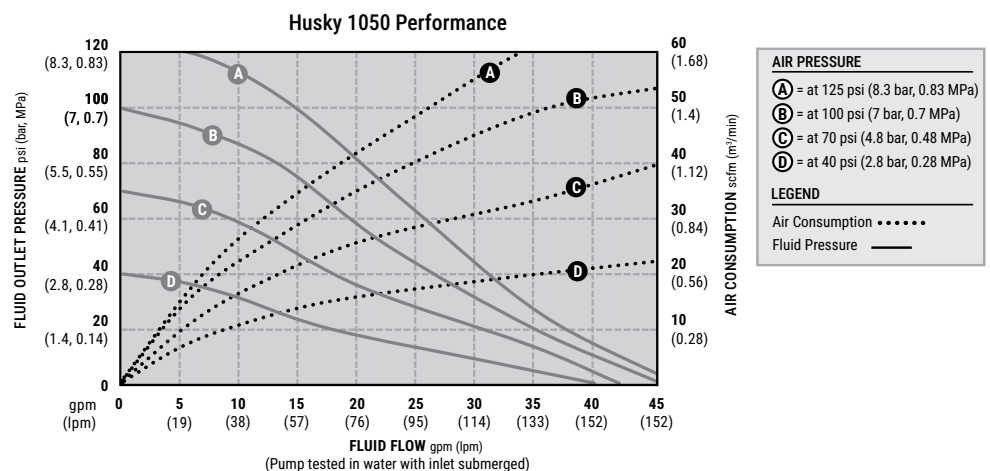
## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

## TYPICAL FLUIDS

- Oil
- Fuel
- Water
- Antifreeze
- Washer fluid

## PUMP PERFORMANCE



# HUSKY 1050 AODD PUMP

## TECHNICAL SPECIFICATIONS

|                                                                                                                                      |                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Maximum fluid working pressure                                                                                                       |                                                              |
| Transfer Pump                                                                                                                        | 100 psi (6.9 bar, 0.69 MPa)                                  |
| Fuel Dispense Pump                                                                                                                   | 50 psi (3.5 bar, 0.35 MPa)                                   |
| Air pressure operating range                                                                                                         |                                                              |
| Transfer Pump                                                                                                                        | 20 psi to 100 psi (1.4 bar to 6.9 bar, 0.14 MPa to 0.69 MPa) |
| Fuel Dispense Pump                                                                                                                   | 0 psi to 50 psi (1.4 bar to 3.5 bar, 0.14 MPa to 0.35 MPa)   |
| Air consumption at 70 psi (0.48 MPa, 4.8 bar), 20 gpm (76 lpm)                                                                       | 25 scfm                                                      |
| Air consumption at 50 psi (0.35 MPa, 3.5 bar), full flow                                                                             | 25 scfm                                                      |
| Fluid displacement per cycle                                                                                                         | 0.17 gal (0.64 l)                                            |
| Maximum values with water as media under submerged inlet conditions at ambient temperature:                                          |                                                              |
| Maximum air consumption                                                                                                              | 64 scfm                                                      |
| Maximum free-flow delivery                                                                                                           |                                                              |
| Transfer Pump                                                                                                                        | 50 gpm (189 lpm)                                             |
| Fuel Dispense Pump                                                                                                                   | 38 gpm (144 lpm)                                             |
| Maximum pump speed                                                                                                                   |                                                              |
| Transfer Pump                                                                                                                        | 275 cpm                                                      |
| Fuel Dispense Pump                                                                                                                   | 210 cpm                                                      |
| Maximum suction lift (varies widely based on ball/seat selection and wear, operating speed, material properties and other variables) | 16 ft (4.9 m) dry, 29 ft (8.8 m) wet                         |
| Maximum-size pumpable solids                                                                                                         | 1/8 in (3.2 mm)                                              |
| Recommended cycle rate for continuous use                                                                                            | 93 cpm to 140 cpm                                            |
| Recommended cycle rate for circulation systems                                                                                       | 20 cpm                                                       |
| Sound Power*                                                                                                                         |                                                              |
| at 70 psi (0.48 MPa, 4.8 bar) and 50 cpm                                                                                             | 78 dB(A)                                                     |
| at 100 psi (0.7 MPa, 7.0 bar) and full flow                                                                                          | 90 dB(A)                                                     |
| Sound Pressure**                                                                                                                     |                                                              |
| at 70 psi (0.48 MPa, 4.8 bar) and 50 cpm                                                                                             | 84 dB(A)                                                     |
| at 100 psi (0.7 MPa, 7.0 bar) and full flow                                                                                          | 96 dB(A)                                                     |
| Operating temperature range                                                                                                          | 10°F to 150°F (-12°C to 65°C)                                |
| Air inlet size                                                                                                                       | 1/2 in NPT(F)                                                |
| Fluid inlet size                                                                                                                     | 1 in NPT(F)                                                  |
| Fluid outlet size                                                                                                                    | 1 in NPT(F)                                                  |
| Weight                                                                                                                               | 23 lb (10.5 kg)                                              |
| Wetted parts                                                                                                                         | Aluminum, TPC-ET, acetal, PTFE, Buna-N                       |
| Non-wetted external parts                                                                                                            | Aluminum, coated carbon steel                                |
| Instruction manual                                                                                                                   | 313597                                                       |

\*Sound power measured per ISO-9614-2.

\*\*Sound pressure was tested 3.28 ft (1 m) from equipment.

## ORDERING OPTIONS

### HUSKY 1050 AODD PUMPS

| Part Number | Description                                      | Maximum Fluid Working Pressure | Fluids Handled                     |
|-------------|--------------------------------------------------|--------------------------------|------------------------------------|
| 647016      | Husky 1050 Aluminum Pump – 1 in, Aluminum/TPE    | 100 psi (6.9 bar)              | Water / antifreeze / fuel transfer |
| 647731      | Husky 1050 Aluminum Pump – 1 in, Aluminum/Buna-N | 100 psi (6.9 bar)              | Oil evacuation / oil transfer      |
| 647648      | Husky 1050 Aluminum Pump – 1 in, Aluminum/TPE    | 50 psi (3.5 bar)               | Fuel dispense                      |



# HUSKY 307 AODD PUMP



## Husky 307 AODD Pump

- 3/8 in fluid connections
- Fluid delivery up to 7 gpm (26.5 lpm)
- Operate as low as 20 psi up to 100 psi for max flow
- Maximum working pressure of 100 psi for long line runs
- End porting available
- High-efficiency air valve operates at maximum of 6 scfm
- Groundable to reduce risk of static and electric shock

## TECHNICAL SPECIFICATIONS

|                                                                |                                                                 |
|----------------------------------------------------------------|-----------------------------------------------------------------|
| Maximum fluid working pressure                                 | 100 psi (6.9 bar, 0.69 MPa)                                     |
| Maximum free-flow delivery*                                    | 7.0 gpm (26.5 lpm)                                              |
| Maximum pump speed                                             | 330 cpm                                                         |
| Fluid displacement per cycle**                                 | 0.02 gal (0.076 l)                                              |
| Maximum suction lift                                           | 12 ft (3.7 m) dry                                               |
| Maximum-size pumpable solids                                   | 0.06 in (1.5 mm)                                                |
| Maximum ambient operating temperature***                       | 180°F (82.2°C)                                                  |
| Maximum diaphragm operating temperature***                     | 150°F (65.6°C)                                                  |
| Typical sound level at 50 psi (3.5 bar, 0.35 MPa) air @ 50 cpm | 75 dB(A)                                                        |
| Maximum air consumption                                        | 6 scfm (0.17 m <sup>3</sup> /min)                               |
| Air pressure operating range                                   | 20 psi to 100 psi<br>(1.4 bar to 6.9 bar, 0.14 MPa to 0.69 MPa) |
| Air inlet size                                                 | 1/4 NPT(F) or BSPT(F)                                           |
| Fluid inlet size                                               | 3/8 NPT(F)                                                      |
| Fluid outlet size                                              | 3/8 NPT(F)                                                      |
| Weight                                                         | 5.2 lb (2.4 kg)                                                 |
| Wetted parts                                                   | Acetal with stainless steel fibers, PTFE                        |
| Instruction manual                                             | 308553                                                          |

\*Flow rates are with muffler and do not vary based on diaphragm material. \*\*Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Actual pump performance may be affected by prolonged usage at temperature.

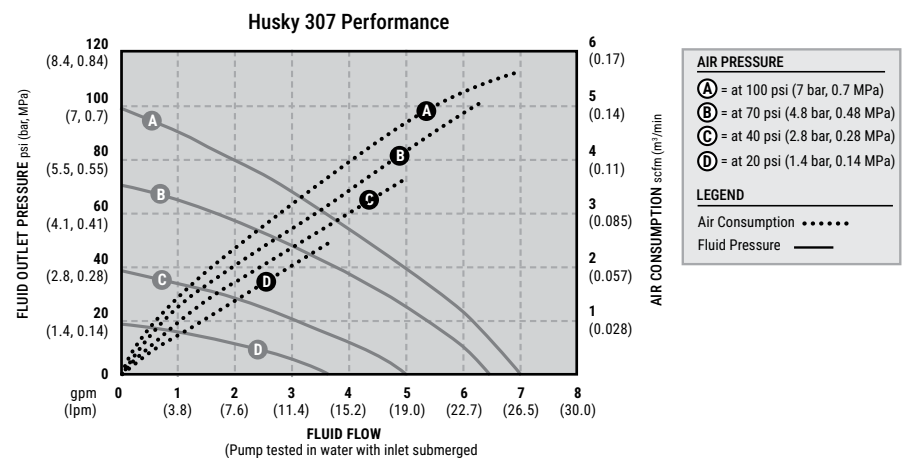
SPECIALTY PUMPS

## ORDERING OPTIONS

### HUSKY 307 AODD PUMP

| Part Number | Description                                |
|-------------|--------------------------------------------|
| D31255      | Husky 307 Acetal Pump - 3/8 in, Acetal/TPE |

## PUMP PERFORMANCE



# HUSKY 515 AODD PUMP



## Husky 515 AODD Pump

- 1/2 in fluid connections
- Fluid delivery up to 15 gpm (56.7 lpm)
- Operate as low as 30 psi up to 100 psi for max flow
- Maximum working pressure of 100 psi for long line runs
- Center and end porting options available
- High-efficiency air valve operates at maximum of 28 scfm
- Groundable to reduce risk of static and electric shock

## TECHNICAL SPECIFICATIONS

|                                                                |                                                              |
|----------------------------------------------------------------|--------------------------------------------------------------|
| Maximum fluid working pressure                                 | 100 psi (6.9 bar, 0.69 MPa)                                  |
| Maximum free-flow delivery*                                    | 15 gpm (57 l/min)                                            |
| Maximum pump speed                                             | 400 cpm                                                      |
| Fluid displacement per cycle**                                 | 0.04 gal (0.15 l)                                            |
| Maximum suction lift                                           | 15 ft (4.5 m) dry, 25 ft (7.6 m) wet                         |
| Maximum-size pumpable solids                                   | 3/32 in (2.5 mm)                                             |
| Maximum ambient operating temperature***                       | 180°F (82.2°C)                                               |
| Maximum diaphragm operating temperature***                     | 180°F (82.2°C)                                               |
| Typical sound level at 70 psi (4.8 bar, 0.48 MPa) air @ 50 cpm | 77 dB(A)                                                     |
| Maximum air consumption                                        | 28 scfm (0.672 m <sup>3</sup> /min)                          |
| Air pressure operating range                                   | 30 psi to 100 psi (2.1 bar to 6.9 bar, 0.21 MPa to 0.69 MPa) |
| Air inlet size                                                 | 1/4 NPT(F)                                                   |
| Fluid inlet size                                               | 3/4 in NPT(F)                                                |
| Fluid outlet size                                              | 1/2 and 3/4 in NPT(F)                                        |
| Weight                                                         | 7.8 lb (3.5 kg)                                              |
| Wetted parts                                                   | Groundable acetal, Buna-N, PTFE                              |
| Instruction manual                                             | 309204                                                       |

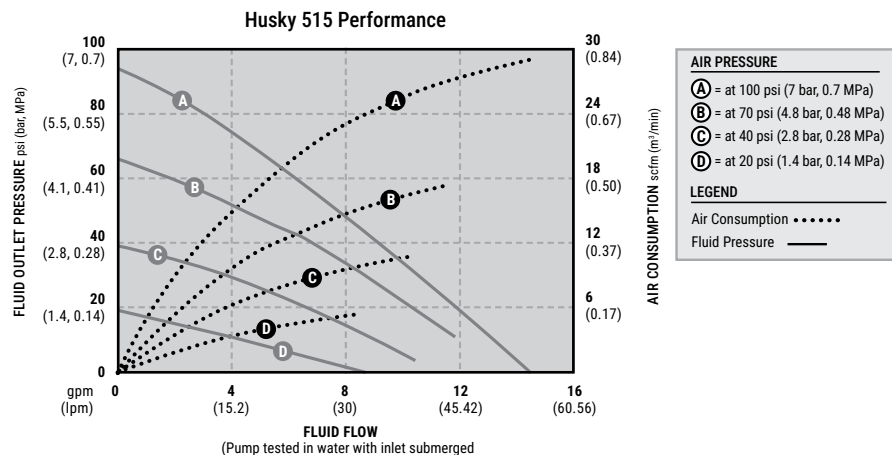
\*Flow rates are with muffler and do not vary based on diaphragm material. \*\*Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Actual pump performance may be affected by prolonged usage at temperature.

## ORDERING OPTIONS

### HUSKY 515 AODD PUMP

| Part Number | Description                                                   |
|-------------|---------------------------------------------------------------|
| 243669      | Husky 515 Acetal Split Inlet - 3/4 in, Acetal/Buna Dual Inlet |

## PUMP PERFORMANCE





# HUSKY 716 AODD PUMP



## Husky 716 AODD Pump

- 3/4 in fluid connections
- Fluid delivery up to 16 gpm (60.6 lpm)
- Operate as low as 30 psi up to 100 psi for max flow
- Maximum working pressure of 100 psi for long line runs
- Center and end porting options available
- High-efficiency air valve operates at maximum of 28 scfm
- Groundable to reduce risk of static and electric shock

## TECHNICAL SPECIFICATIONS

|                                                                |                                                                    |
|----------------------------------------------------------------|--------------------------------------------------------------------|
| Maximum fluid working pressure                                 | 100 psi (6.9 bar, 0.69 MPa)                                        |
| Maximum free-flow delivery*                                    | 16 gpm (61 l/min)                                                  |
| Maximum pump speed                                             | 400 cpm                                                            |
| Fluid displacement per cycle**                                 | 0.04 gal (0.15 l)                                                  |
| Maximum suction lift                                           | 15 ft (4.5 m) dry, 25 ft (7.6 m) wet                               |
| Maximum-size pumpable solids                                   | 3/32 in (2.5 mm)                                                   |
| Maximum ambient operating temperature***                       | 180°F (82.2°C)                                                     |
| Maximum diaphragm operating temperature***                     | 180°F (82.2°C)                                                     |
| Typical sound level at 70 psi (4.8 bar, 0.48 MPa) air @ 50 cpm | 77 dB(A)                                                           |
| Maximum air consumption                                        | 28 scfm (0.672 m <sup>3</sup> /min)                                |
| Air pressure operating range                                   | 25 psi to 100 psi<br>(1.8 bar to 6.9 bar, 0.18 MPa to 0.69 MPa)    |
| Air inlet size                                                 | 1/4 NPT(F)                                                         |
| Fluid inlet size                                               | 3/4 in NPT(F)                                                      |
| Fluid outlet size                                              | 3/4 in NPT(F)                                                      |
| Weight                                                         | 8.5 lb (3.9 kg)                                                    |
| Wetted parts                                                   | Buna-N, acetal, aluminum, stainless steel, PTFE, zinc-plated steel |
| Instruction manual                                             | 308573                                                             |

\*Flow rates are with muffler and do not vary based on diaphragm material. \*\*Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Actual pump performance may be affected by prolonged usage at temperature.

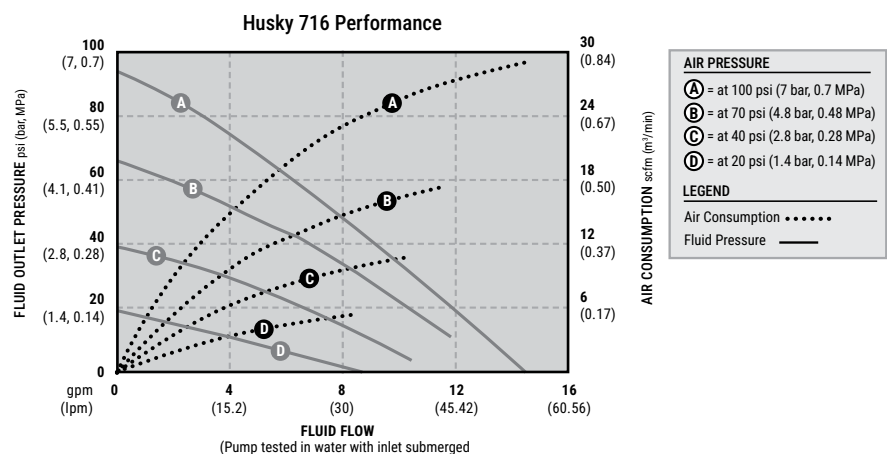
SPECIALTY PUMPS

## ORDERING OPTIONS

### HUSKY 716 AODD PUMP

| Part Number | Description                                  |
|-------------|----------------------------------------------|
| 241906      | Husky 716 Aluminum – 3/4 in, Aluminum/Buna-N |

## PUMP PERFORMANCE



# HUSKY 1590 AODD PUMP



## Husky 1590 AODD Pump

- 1-1/2 in fluid connections
- Fluid delivery up to 90 gpm (340.7 lpm)
- Operate as low as 20 psi up to 120 psi for max flow
- Maximum working pressure of 120 psi for long line runs
- End porting available
- High-efficiency air valve operates at maximum of 125 scfm
- Groundable to reduce risk of static and electric shock

## TECHNICAL SPECIFICATIONS

|                                                                 |                                                                 |
|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Maximum fluid working pressure                                  | 120 psi (8.4 bar, 0.84 MPa)                                     |
| Maximum free-flow delivery*                                     | 100 gpm (378.5 l/min)                                           |
| Maximum pump speed                                              | 200 cpm                                                         |
| Fluid displacement per cycle**                                  | 0.5 gal (1.96 l)                                                |
| Maximum suction lift                                            | 20 ft (6.1 m) dry                                               |
| Maximum-size pumpable solids                                    | 0.19 in (4.8 mm)                                                |
| Maximum ambient operating temperature***                        | 150°F (65.5°C)                                                  |
| Maximum diaphragm operating temperature***                      | 150°F (65.5°C)                                                  |
| Typical sound level at 70 psi (4.8 bar, 0.48 MPa) air @ 125 cpm | 77 dB(A)                                                        |
| Maximum air consumption                                         | 125 scfm (3.5 m <sup>3</sup> /min)                              |
| Air pressure operating range                                    | 20 psi to 100 psi<br>(1.4 bar to 6.9 bar, 0.14 MPa to 0.69 MPa) |
| Air inlet size                                                  | 1/2 NPT(F)                                                      |
| Fluid inlet size                                                | 1-1/2 NPT(F) or BSPT(F)                                         |
| Fluid outlet size                                               | 1-1/2 NPT(F) or BSPT(F)                                         |
| Weight                                                          | 33.5 lb (15.2 kg)                                               |
| Wetted parts                                                    | Acetal, aluminum, TPE, PTFE                                     |
| Instruction manual                                              | 308441                                                          |

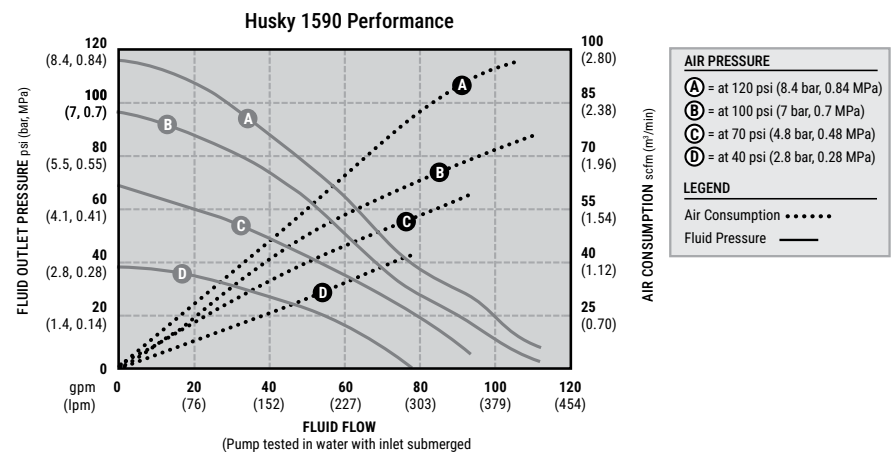
\*Flow rates are with muffler and do not vary based on diaphragm material. \*\*Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Actual pump performance may be affected by prolonged usage at temperature.

## ORDERING OPTIONS

### HUSKY 1590 AODD PUMP

| Part Number | Description                                |
|-------------|--------------------------------------------|
| DB3525      | Husky 1590 Aluminum – 1.5 in, Aluminum/TPE |

## PUMP PERFORMANCE





# HUSKY 2150 AODD PUMP



## Husky 2150 AODD Pump

- 2 in fluid connections
- Fluid delivery up to 150 gpm (567.8 lpm)
- Operate as low as 20 psi up to 120 psi for max flow
- Maximum working pressure of 120 psi for long line runs
- End porting available
- High-efficiency air valve operates at maximum of 175 scfm
- Groundable to reduce risk of static and electric shock

## TECHNICAL SPECIFICATIONS

|                                                                 |                                                                 |
|-----------------------------------------------------------------|-----------------------------------------------------------------|
| Maximum fluid working pressure                                  | 120 psi (8.4 bar, 0.84 MPa)                                     |
| Maximum free-flow delivery*                                     | 150 gpm (568 l/min)                                             |
| Maximum pump speed                                              | 145 cpm                                                         |
| Fluid displacement per cycle**                                  | 1.03 gal (3.9 l)                                                |
| Maximum suction lift                                            | 20 ft (6.1 m) dry                                               |
| Maximum-size pumpable solids                                    | 0.25 in (6.3 mm)                                                |
| Maximum ambient operating temperature***                        | 150°F (65.5°C)                                                  |
| Maximum diaphragm operating temperature***                      | 150°F (65.5°C)                                                  |
| Typical sound level at 70 psi (4.8 bar, 0.48 MPa) air @ 125 cpm | 78 dB(A)                                                        |
| Maximum air consumption                                         | 175 scfm (4.9 m <sup>3</sup> /min)                              |
| Air pressure operating range                                    | 20 psi to 120 psi<br>(1.4 bar to 8.4 bar, 0.14 MPa to 0.84 MPa) |
| Air inlet size                                                  | 1/2 NPT(F)                                                      |
| Fluid inlet size                                                | 2 in NPT(F)                                                     |
| Fluid outlet size                                               | 2 in NPT(F)                                                     |
| Weight                                                          | 58 lb (26.3 kg), 62 lb (28.1 kg) – Extended                     |
| Wetted parts                                                    | Acetal, aluminum, TPE, PTFE                                     |
| Instruction manual                                              | 308368                                                          |

\*Flow rates are with muffler and do not vary based on diaphragm material. \*\*Displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Actual pump performance may be affected by prolonged usage at temperature.

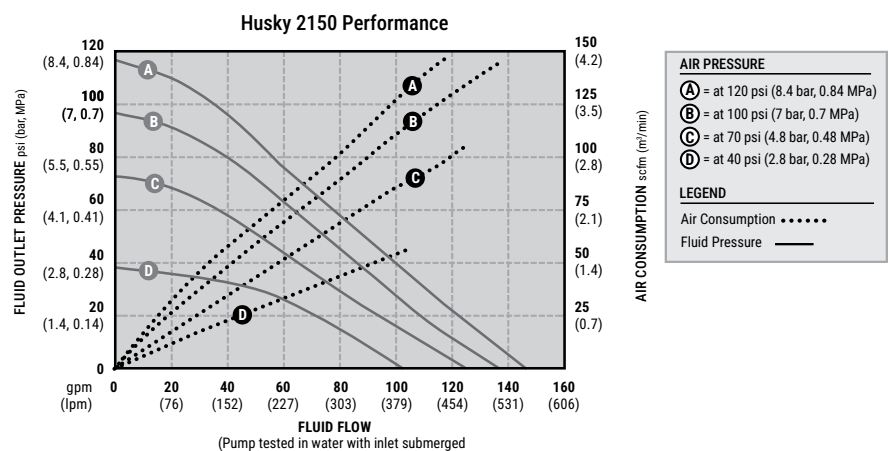
SPECIALTY PUMPS

## ORDERING OPTIONS

### HUSKY 2150 AODD PUMP

| Part Number | Description                              |
|-------------|------------------------------------------|
| DF3525      | Husky 2150 Aluminum – 2 in, Aluminum/TPE |

## PUMP PERFORMANCE



# HUSKY 3300 AODD PUMP



## Husky 3300 AODD Pump

- 3 in fluid connection
- Fluid delivery up to 300 gpm (1,135.6 lpm)
- Operate as low as 20 psi up to 125 psi for max flow
- Maximum working pressure of 125 psi for long line runs
- Rotatable center porting available
- High-efficiency air valve operates at maximum of 335 scfm
- Groundable to reduce risk of static and electric shock

## TECHNICAL SPECIFICATIONS

|                                                                |                                                                 |
|----------------------------------------------------------------|-----------------------------------------------------------------|
| Maximum fluid working pressure                                 | 125 psi (8.4 bar, 0.84 MPa)                                     |
| Maximum free-flow delivery*                                    | 300 gpm (1,135 l/min)                                           |
| Maximum pump speed                                             | 103 cpm                                                         |
| Fluid displacement per cycle**                                 | 2.9 gal (11 l)                                                  |
| Maximum suction lift                                           | 8 ft (2.4 m) dry, 28 ft (8.5 m) wet                             |
| Maximum-size pumpable solids                                   | 0.5 in (13 mm)                                                  |
| Maximum ambient operating temperature***                       | 150°F (65.5°C)                                                  |
| Maximum diaphragm operating temperature***                     | 150°F (65.5°C)                                                  |
| Typical sound level at 50 psi (3.4 bar, 0.34 MPa) air @ 50 cpm | 92 dB(A)                                                        |
| Maximum air consumption                                        | 335 scfm (9.5 m <sup>3</sup> /min)                              |
| Air pressure operating range                                   | 20 psi to 125 psi<br>(1.4 bar to 8.6 bar, 0.14 MPa to 0.86 MPa) |
| Air inlet size                                                 | 3/4 NPT(F)                                                      |
| Fluid inlet size                                               | 3 in (76.2 mm) NPT or BSPT with ANSI/DIN flange                 |
| Fluid outlet size                                              | 3 in NPT(F) or BSPT(F)                                          |
| Weight                                                         | 150 lb (68 kg)                                                  |
| Wetted parts                                                   | Acetal, aluminum, carbon-coated steel, TPE                      |
| Instruction manual                                             | 3A0410                                                          |

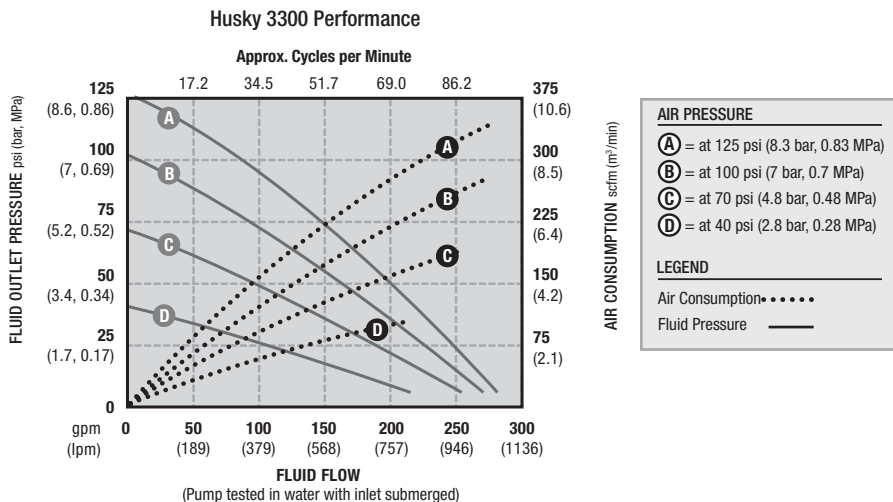
\*Maximum values with water as media at ambient temperature. Water level is approximately 3 ft above pump inlet. \*\*Startup pressures and displacement per cycle may vary based on suction condition, discharge head, air pressure and fluid type. \*\*\*Sound power measured per ISO-9614-2. Sound pressure was tested 3.28 ft (1 m) from equipment.

## ORDERING OPTIONS

### HUSKY 3300 AODD PUMP

| Part Number | Description                              |
|-------------|------------------------------------------|
| 652002      | Husky 3300 Aluminum – 3 in, Aluminum/TPE |

## PUMP PERFORMANCE





# DIAPHRAGM PUMP PACKAGES

## ORDERING OPTIONS

### PRE-MIXED WINDSHIELD WASH SOLVENT AND COOLANT DISPENSE







|                           |                           |        |
|---------------------------|---------------------------|--------|
| Package Number            | 237161                    |        |
| Pump Type                 | Husky 307                 |        |
| Pump                      | D31255                    |        |
| Installation Kit          | 237160                    |        |
| Installation Kit Includes | Air Filter                | 110146 |
|                           | Air Gauge                 | 108190 |
|                           | Air Regulator             | 110318 |
|                           | Fluid Connect Hose – 4 ft | 220596 |
|                           | Air Connect Hose – 6 ft   | 109125 |
|                           | Mounting Bracket          | 190125 |
|                           | Suction Kit               | 223888 |
| Wall Bracket Kit          | 224835                    |        |
| Instruction Manual        | 308426                    |        |

SPECIALTY PUMPS

# DIAPHRAGM PUMP PACKAGES

## ORDERING OPTIONS

### BULK ANTIFREEZE AND WINDSHIELD SOLVENT TRANSFER PACKAGES


|                     |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                     |  |  |  |  |
| Package Number      | 244679                                                                            | 244680                                                                            | 244681                                                                             | 244682                                                                              |
| Pump Type           | Husky 1050 – Dual Inlet                                                           | Husky 1050 – Single Inlet                                                         | Husky 515 – Dual Inlet                                                             | Husky 716 – Single Inlet                                                            |
| Pump                | 647016                                                                            | 647016                                                                            | 243669                                                                             | 241906                                                                              |
| Air Regulator       | 244844                                                                            | 244844                                                                            | 110147                                                                             | 110147                                                                              |
| Fluid Connect Hose  | 115042                                                                            | 115042                                                                            | 109105                                                                             | 109105                                                                              |
| Air Connect Hose    | 205418                                                                            | 205418                                                                            | 109125                                                                             | 109125                                                                              |
| Air Shut-Off Valve  | 110225                                                                            | 110225                                                                            | 110223                                                                             | 110223                                                                              |
| Wall Mount Bracket  | 24C637                                                                            | 24C637                                                                            | 224835                                                                             | 224835                                                                              |
| Dual Inlet Manifold | 24D147                                                                            | -                                                                                 | -                                                                                  | -                                                                                   |
| Suction Kit         | (2) 236054                                                                        | 236054                                                                            | (2) 236054                                                                         | 236054                                                                              |
| Thermal Relief Kit  | 238428                                                                            | 238428                                                                            | 238428                                                                             | 238428                                                                              |
| Instruction Manual  | 309353                                                                            | 309353                                                                            | 309353                                                                             | 309353                                                                              |




# DIAPHRAGM PUMP ACCESSORIES

## ORDERING OPTIONS


### AIR LINE FILTERS

|                                                                                   |             |        |         |        |        |        |        |
|-----------------------------------------------------------------------------------|-------------|--------|---------|--------|--------|--------|--------|
|  | Husky Pump  | 307    | 515/716 | 1050   | 1590   | 2150   | 3300   |
|                                                                                   | Part Number | 110146 | 110146  | 106148 | 106149 | 106150 | 106150 |


### AIR REGULATOR AND GAUGE

|                                                                                   |             |        |         |        |        |        |        |
|-----------------------------------------------------------------------------------|-------------|--------|---------|--------|--------|--------|--------|
|  | Husky Pump  | 307    | 515/716 | 1050   | 1590   | 2150   | 3300   |
|                                                                                   | Part Number | 110147 | 110147  | 244844 | 202858 | 206199 | 207651 |


### AIR QUICK-CONNECT COUPLER

|                                                                                   |             |        |         |        |        |        |        |
|-----------------------------------------------------------------------------------|-------------|--------|---------|--------|--------|--------|--------|
|  | Husky Pump  | 307    | 515/716 | 1050   | 1590   | 2150   | 3300   |
|                                                                                   | Part Number | 208536 | 208536  | 110199 | 110199 | 110199 | 110200 |


### AIR QUICK-CONNECT NIPPLE

|                                                                                     |             |        |         |        |        |        |        |
|-------------------------------------------------------------------------------------|-------------|--------|---------|--------|--------|--------|--------|
|  | Husky Pump  | 307    | 515/716 | 1050   | 1590   | 2150   | 3300   |
|                                                                                     | Part Number | 169970 | 169970  | 110196 | 110196 | 110196 | 110197 |


### BLEED-TYPE AIR VALVE

|                                                                                     |             |        |         |        |        |        |        |
|-------------------------------------------------------------------------------------|-------------|--------|---------|--------|--------|--------|--------|
|  | Husky Pump  | 307    | 515/716 | 1050   | 1590   | 2150   | 3300   |
|                                                                                     | Part Number | 110223 | 110223  | 110224 | 110225 | 110225 | 110226 |


### DUAL-INLET MANIFOLD

|                                                                                     |             |        |        |        |      |      |      |
|-------------------------------------------------------------------------------------|-------------|--------|--------|--------|------|------|------|
|  | Husky Pump  | 307    | 515    | 1050   | 1590 | 2150 | 3300 |
|                                                                                     | Part Number | 237211 | 194347 | 24D205 | -    | -    | -    |

### GROUNDING WIRE AND CLAMP

|                                                                                     |             |        |         |        |        |        |        |
|-------------------------------------------------------------------------------------|-------------|--------|---------|--------|--------|--------|--------|
|  | Husky Pump  | 307    | 515/716 | 1050   | 1590   | 2150   | 3300   |
|                                                                                     | Part Number | 222011 | 222011  | 238909 | 222011 | 238909 | 238909 |


### SUCTION HOSE KIT

|                                                                                     |             |        |         |        |        |        |      |
|-------------------------------------------------------------------------------------|-------------|--------|---------|--------|--------|--------|------|
|  | Husky Pump  | 307    | 515/716 | 1050   | 1590   | 2150   | 3300 |
|                                                                                     | Part Number | 236054 | 236054  | 236054 | 222916 | 222916 | -    |


# DIAPHRAGM PUMP ACCESSORIES

## ORDERING OPTIONS


### THERMAL RELIEF KIT

|                                                                                   |             |        |         |        |      |      |      |
|-----------------------------------------------------------------------------------|-------------|--------|---------|--------|------|------|------|
|  | Husky Pump  | 307    | 515/716 | 1050   | 1590 | 2150 | 3300 |
|                                                                                   | Part Number | 238899 | 238428  | 238428 | -    | -    | -    |

### THERMAL RELIEF VALVES – 150 PSI (10.3 BAR)

|                                                                                   |             |                            |         |      |      |      |      |
|-----------------------------------------------------------------------------------|-------------|----------------------------|---------|------|------|------|------|
|  | Husky Pump  | 307                        | 515/716 | 1050 | 1590 | 2150 | 3300 |
|                                                                                   | Part Number | 113497 al/bn, 112119 ss/tf |         |      |      |      |      |

### WALL BRACKET

|                                                                                   |             |        |         |        |      |      |      |
|-----------------------------------------------------------------------------------|-------------|--------|---------|--------|------|------|------|
|  | Husky Pump  | 307    | 515/716 | 1050   | 1590 | 2150 | 3300 |
|                                                                                   | Part Number | 224835 | 224835  | 24C637 | -    | -    | -    |

### AIR-OPERATED DOUBLE-DIAPHRAGM TRANSFER PUMPS REPLACEMENT PARTS

|                                           |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                                           |  |  |  |  |  |  |  |  |  |
| Pump Number                               | D31255                                                                              | 243669                                                                              | 241906                                                                              | 647016                                                                              | 647731                                                                              | 647648                                                                               | DB3525                                                                                | DF3525                                                                                | 652002                                                                                |
| Air Valve Replacement Kit                 | 239952                                                                              | 241657                                                                              | 241657                                                                              | 24B768                                                                              | 24B768                                                                              | 24B768                                                                               | 236273                                                                                | 236273                                                                                | 24K860                                                                                |
| Seats                                     | D03200                                                                              | D05200                                                                              | D05200                                                                              | 24B634                                                                              | 24B632                                                                              | 24B634                                                                               | D0B500                                                                                | D0F500                                                                                | 24K932                                                                                |
| Balls                                     | D03050                                                                              | D05070                                                                              | D05070                                                                              | 24B639                                                                              | 24B639                                                                              | 24B639                                                                               | D0B020                                                                                | D0F020                                                                                | 24K937                                                                                |
| Diaphragm Kit                             | D03005                                                                              | D05007                                                                              | D05007                                                                              | 24B624                                                                              | 24B624                                                                              | 24B624                                                                               | D0B005                                                                                | D0F005                                                                                | 24K901                                                                                |
| Fluid Repair Kit (Ball, Seats, Diaphragm) | D03255                                                                              | D05277                                                                              | D05277                                                                              | 25A857                                                                              | -                                                                                   | 25A857                                                                               | D0B525                                                                                | D0F525                                                                                | 25A874                                                                                |

# UNDERCOATING AND RUSTPROOFING PUMPS



## IDEAL FOR UNDERCOATING AND RUSTPROOFING APPLICATION IN MEDIUM-SIZED SHOPS

Utilizing the durable Fire-Ball® 300 pump, these kits are designed for use in medium-volume undercoating and rustproofing dispense applications. A three-inch differential air motor ensures smooth pumping, and the double-acting pump design provides reliable material flow and accurate dispense.



### Durable Casting

Thick cast aluminum air motor housing offers unmatched durability.

### Superior Material Handling

Double-acting pump ensures smooth fluid flow.

### Extended Seal Life

In-line pump design aligns the air motor piston and fluid piston rods to maximize seal life.

### Wetted-Parts Options

Available in carbon steel for petroleum-based or SST for water-based materials.

### Corrosion-Resistant

Corrosion-resistant design utilizes liquid salt nitriding, nickel plating, stainless steel, aluminum and chrome on key components for longer life.

## TYPICAL APPLICATIONS

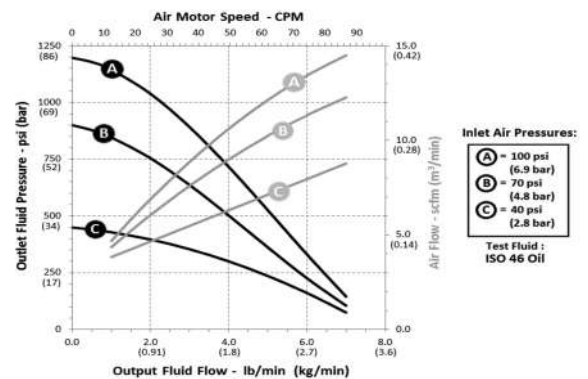
- Undercoating, rustproofing and sound-deadening materials
- Automotive and heavy-duty vehicle dealerships
- Fast lube centers and service shops
- Fleet service facilities

## TYPICAL FLUIDS

- Undercoating and rustproofing (Verify chemical compatibility for pump's wetted components with undercoating material supplier or contact Graco directly at 1-800-533-9655)

## PUMP PERFORMANCE

### FIRE-BALL 300 15:1 PUMPS



# UNDERCOATING AND RUSTPROOFING PUMP PACKAGES

## TECHNICAL SPECIFICATIONS

|                                                 |                                         |
|-------------------------------------------------|-----------------------------------------|
| Fluid Pressure Ratio                            | 15:1                                    |
| Air Motor Effective Diameter                    | 3 in (76.2 mm)                          |
| Annual Usage                                    | Up to 10,000 lb (4,535 kg)              |
| Maximum Fluid Working Pressure                  | 2,700 psi (186 bar / 18.6 MPa)          |
| Approximate Free-Flow Rate @ 100 psi            | 7.5 lb/min (3.4 kg/min)                 |
| Output per Cycle                                | 1.29 oz (36.6 g)                        |
| Continuous-Duty Flow Rate                       | 0.7 lb/min (0.32 kg/min)                |
| Approximate Air Use and Flow @ 100 psi (80 cpm) | 14 @ 6.5 lb/min (0.40 @ 2.9 kg/min)     |
| Air Inlet                                       | 3/8 in NPT(F)                           |
| Fluid Outlet                                    | 1/4 in NPT(F)                           |
| Air Operation Range                             | 40 psi to 180 psi (2.8 bar to 12.5 bar) |
| Max Recommended Pump Speed                      | 66 cpm                                  |
| Cycles per Pound                                | 12.4 cpp                                |
| Cycles per Kg                                   | 27 cpk                                  |
| Wetted Parts                                    | CS, AL, leather, PTFE, rubber           |
| Sound Pressure Level                            | 77.8 dB(A)                              |
| Sound Power Level                               | 85.6 dB(A)                              |
| Approximate Weight                              | 22 lb (10 kg)                           |
| Instruction Manual                              | 306531                                  |

## ORDERING OPTIONS

### UNDERCOATING PACKAGES



|                    |               |                        |                 |
|--------------------|---------------|------------------------|-----------------|
| Package Number     | 222077        | 226342                 | 226269          |
| Type of Package    | Stationary    | Portable Dolly-Mounted | Stationary      |
| Ratio              | 15:1          | 15:1                   | 15:1            |
| Container Size     | 35 lb (16 kg) | 120 lb (54 kg)         | 400 lb (180 kg) |
| Pump Part Number   | 206405        | 206699                 | 206700          |
| Dispense Kit*      | 222079        | 222079                 | —               |
| Tip                | 286517        | 286517                 | 286517          |
| Hose Length        | 15 ft (4.6 m) | 15 ft (4.6 m)          | 25 ft (7.6 m)   |
| Drum Cover         | 222058        | 204574                 | 200326          |
| Portable Base      | —             | 204144                 | —               |
| Instruction Manual | 307879        | 307879                 | 307879          |


\*Dispense kit includes Air Regulator (110234), Air Gauge (100960), Spray Gun (234237)

# UNDERCOATING AND RUSTPROOFING ACCESSORIES




## ORDERING OPTIONS


### APPLICATION GUN

|  | Part Number | Description                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | 234237      | Four-finger silver gun with tip guard 243161 and tip 286517. 4,500 psi (310 bar) x 3/8 NPT(f) inlet. Must order 155570 adapter and 239663 straight swivel to accommodate gun to 1/4 in (mbe) hose. |


### BUNG ADAPTER

|  | Part Number | Description                                           |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------------|
|                                                                                   | 239966      | Bung adapter compatible with Fire-Ball 300, 15:1 pump |


### FILTER

|  | Part Number | Description                                                                                                 |
|------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------|
|                                                                                    | 214570      | 60-mesh aluminum filter, 3/8 NPT(F) inlet, 1/4 NPT(F) outlet. Maximum working pressure 3,000 psi (210 bar). |


### NOZZLE EXTENSION

|  | Part Number | Description                                                                                                                   |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | 206496      | Nozzle extension delivers 360° coating fan into blind areas. Length 30-3/4 in (99 cm) x 7/8-14(f) end. Tip 206502, size .043. |

### REPLACEMENT SCREEN ELEMENTS (SST)

|  |         | Part Number |         |          |
|-------------------------------------------------------------------------------------|---------|-------------|---------|----------|
|                                                                                     |         | 30 Mesh     | 60 Mesh | 100 Mesh |
|                                                                                     | 3-Pack  | 224458      | 224459  | 224469   |
|                                                                                     | 25-Pack | 238436      | 238438  | 238440   |

### SWIVEL

|  | Part Number | Description                                                                                                                  |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | 202577      | Z-swivel allows non-binding movement for hard-to-reach locations. Order 155570 adapter separately to accommodate 234237 gun. |

# BULLDOG® 43:1 OIL PUMP

## RELIABLE OPERATION IN THE HARSHTEST ENVIRONMENTS

With its efficient, large-ported air valve, the Bulldog 43:1 air-powered pump is the highest-performing in its class. Downtime is minimized by an air motor design that has been developed and tested for more than 10 million cycles of operation.



### Added Safety

Grounded lug prevents static buildup.

### Easy Installation

Compact, low-profile design makes installation easier.

### Corrosion-Resistant

Lightweight aluminum construction.

### Built-In Reliability

Tested to 10 million cycles without failure.

## TYPICAL APPLICATIONS

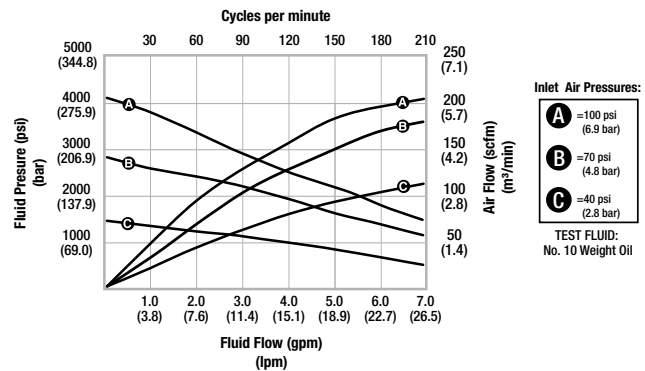
- Supplies hydraulic oil to accumulators in oil rig blow-out prevention systems.

## TYPICAL FLUIDS

- Hydraulic oil

## PUMP PERFORMANCE

### BULLDOG 43:1 PUMPS



Inlet Air Pressures:

- A** = 100 psi (6.9 bar)
- B** = 70 psi (4.8 bar)
- C** = 40 psi (2.8 bar)

TEST FLUID:  
No. 10 Weight Oil



## TECHNICAL SPECIFICATIONS

|                                |                                                                                            |
|--------------------------------|--------------------------------------------------------------------------------------------|
| Fluid Pressure Ratio           | 43:1                                                                                       |
| Maximum Fluid Working Pressure | 4,300 psi (301 bar / 30.1 MPa)                                                             |
| Maximum Air Input Pressure     | 100 psi (7 bar)                                                                            |
| Air Inlet                      | 3/4 in NPSM(F)                                                                             |
| Fluid Inlet                    | 1 in NPT(F)                                                                                |
| Fluid Outlet                   | 3/4 in NPT(F)                                                                              |
| Wetted Parts                   | Carbon steel, stainless steel, chrome plating, zinc plating, nickel plating, brass, Buna-N |
| Instruction Manual             | 309966                                                                                     |

## ORDERING OPTIONS

### BULLDOG 43:1 PUMPS

| Part Number | Description                        |
|-------------|------------------------------------|
| 218334      | 43:1 Bulldog hydraulic supply pump |

## ACCESSORIES

### AIR PRESSURE REGULATORS

| Part Number | Description                 |
|-------------|-----------------------------|
| 206197      | 1/2 in NPT inlet and outlet |
| 207755      | 3/4 in NPT inlet and outlet |

### AIR LINE FILTERS

| Part Number | Description                 |
|-------------|-----------------------------|
| 106149      | 1/2 in NPT inlet and outlet |
| 106150      | 3/4 in NPT inlet and outlet |

### AIR LINE LUBRICATORS

| Part Number | Description                 |
|-------------|-----------------------------|
| 214848      | 1/2 in NPT inlet and outlet |
| 214849      | 3/4 in NPT inlet and outlet |

### GROUNDING CLAMP AND WIRE

| Part Number | Description     |
|-------------|-----------------|
| 103538      | Grounding clamp |
| 222011      | Ground wire     |

### BLEED-TYPE MASTER AIR VALVE

| Part Number | Description                 |
|-------------|-----------------------------|
| 107142      | 1/2 in NPT inlet and outlet |

## REPAIR KITS

| Part Number | Description                   |
|-------------|-------------------------------|
| 24U227      | Pump lower repair kit         |
| 24U228      | Air motor repair kit          |
| 24W515      | Pump and air motor repair kit |

# FAST-FLO® 1:1 PUMPS

## USED FOR LOW-VOLUME DISPENSE OF A VARIETY OF FLUIDS

This air-operated piston pump is ideal for pumping various fluids and provides a continuous-duty flow rate of up to 5 gpm.



### High-Quality Air Motor

Differential air motor ensures smooth pumping.

### Lightweight Design

Allows for easy transport and drum insertion.

### Easily Controlled Flow Rate

Simple regulation of air supply controls flow rate.

### Submersible Suction Tube

Stubby and drum length suction tubes eliminate the need for suction pipe or tube.

### Corrosion Resistance

Available stainless steel models offer protection in harsh environments.

## TYPICAL APPLICATIONS

- Low-pressure, high-volume transfer of low viscosity fluids
- Automotive dealerships
- Heavy-duty dealerships
- Fast lube centers
- Fleet service facilities
- Service shops
- In-plant
- Lube trucks
- Mining

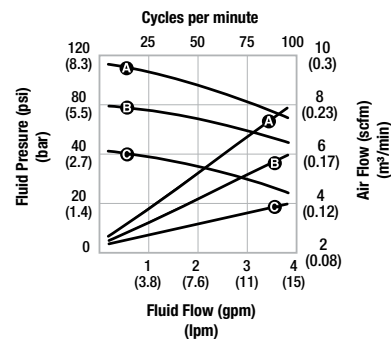
## TYPICAL FLUIDS

- Water
- Antifreeze
- Windshield wash fluid

NOTE: Use Fast-Ball® 1:1 for petroleum-based products.

## PUMP PERFORMANCE

### FAST-FLO 1:1 PUMPS



Inlet Air Pressures:

- A** = 100 psi (6.9 bar)
- B** = 70 psi (4.8 bar)
- C** = 40 psi (2.8 bar)

TEST FLUID:  
No. 10 Weight Oil



## TECHNICAL SPECIFICATIONS

|                                                 |                                                       |
|-------------------------------------------------|-------------------------------------------------------|
| Fluid Pressure Ratio                            | 1:1                                                   |
| Air Motor Effective Diameter                    | 1.4 in (35.6 mm)                                      |
| Maximum Fluid Working Pressure                  | 180 psi (12 bar/1.2 Mpa)                              |
| Approximate Free-Flow Rate @ 100 psi (80 cpm)   | 5 gal/min (19 liters/min)                             |
| Output per Cycle                                | 151 cc                                                |
| Approximate Air Use and Flow @ 100 psi (80 cpm) | 7 csfm @ 3.1 gpm (0.2 m <sup>3</sup> /mm @ 11.71 lpm) |
| Air inlet                                       | 1/4 in NPT(F)                                         |
| Fluid Inlet                                     | 1-1/2 in NPT(F)                                       |
| Fluid Outlet                                    | 3/4 in NPT(F)                                         |
| Air Operations Range                            | 40 psi to 180 psi (2.8 bar to 12 bar)                 |
| Maximum Pump Speed                              | 100 cpm                                               |
| Cycles per Gallon                               | 25 cpg                                                |
| Cycles per Liter                                | 6.6 cpl                                               |
| Wetted Parts                                    | See ordering info                                     |
| Sound Pressure Level                            | 72 dB(A)                                              |
| Sound Power Level                               | 82 dB(A)                                              |
| Instruction Manual                              | 307427                                                |

## ORDERING OPTIONS

### FAST-FLO 1:1 PUMPS



Includes motor and pump lower assembly.

| Fluid                                           | Length    | Tube Material   | Seal Material | Approvals   | Part Number |
|-------------------------------------------------|-----------|-----------------|---------------|-------------|-------------|
| Antifreeze, Windshield Washer Solvent, ATF, Oil | Drum      | Stainless Steel | Polyethylene  | ETL, CE, EX | 226942      |
|                                                 | Universal | Stainless Steel | Polyethylene  | ETL, CE, EX | 226945      |



# FAST-FLO® 1:1 PUMP ACCESSORIES

## ORDERING OPTIONS



### HOSE AND FITTING KITS

|                                                                                   | Part Number | Description                                                            | Includes                |                           |
|-----------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------|-------------------------|---------------------------|
|                                                                                   |             |                                                                        | Air Hose / Swivel Elbow | Fluid Hose / Swivel Elbow |
|  | 222118      | 18 in (0.5 m) for connecting wall-mounted Fast-Flo 1:1 pumps to piping | 109123 / 155541         | 109108 / 160327           |
|  | 222119      | 6 ft (1.8 m) for use with drum-mounted Fast-Flo 1:1 pumps              | 109125 / 155541         | 109105 / 160327           |


### BUNG ADAPTERS

|                                                                                     | Part Number | Description                                                                                           |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------|
|   | 214583      | Allows direct mounting of full-length Fast-Flo 1:1 pumps into standard 2 in NPT drum bung (included). |
|  | 217359      | Sealed bung adapter for Fast-Flo pumps; can be used with suction kit 236054.                          |

### INSTALLATION KITS

|                                                                                     | Part Number | Description                                                                                                    |
|-------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------|
|  | 218316      | Includes regulator (104815), gauge (104655) and fittings (169969/114558) as necessary for normal installation. |
|  | 210881      | Wall mounting bracket for Fast-Flow 1:1 Pumps                                                                  |



### SUCTION KIT

|                                                                                     | Part Number | Description                                                                                                              | Includes     |              |           |
|-------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------|--------------|--------------|-----------|
|                                                                                     |             |                                                                                                                          | Bung Adapter | Bushing Pipe | 6 ft Hose |
|  | 236054      | 6 ft (1.8 m) suction kit for 55 gal (200 l) drums. For use with Fast-Ball, Mini Fire-Ball and Fire-Ball universal pumps. | 188845       | 101496       | 109105    |




## ORDERING OPTIONS


### DRUM COVERS

|  | Part Number | Description                                                                                                                                                                              |
|-----------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | 204574      | Drum cover for 10 gal (40 l) and 16 gal (60 l) sized containers. Drum cover mounts on top of an open drum with mounting house for a 1:1 pump. Includes thumb screws and a rubber gasket. |
|  | 200326      | Drum cover for a 55 gal (200 l) container. Drum cover mounts on top of an open drum, with mounting for a 1:1 pump.                                                                       |

### AIR LINE FILTER

|  | Part Number | Description                 |
|-----------------------------------------------------------------------------------|-------------|-----------------------------|
|                                                                                   | 106149      | 1/2 in NPT inlet and outlet |

### AIR LINE LUBRICATOR

|  | Part Number | Description                 |
|-------------------------------------------------------------------------------------|-------------|-----------------------------|
|                                                                                     | 214848      | 1/2 in NPT inlet and outlet |

# EGP™ TRANSFER AND EGP ON-DEMAND

## ELECTRIC CONVENIENCE

There's an easier, more efficient way to pump fluid to your critical equipment. Graco's all-electric EGP pumps reduce operating costs without compromising the durability you expect from the industry leader in pumping solutions. Add convenience and peace of mind to your everyday operations.

### EGP TRANSFER PUMPS

Use the EGP Transfer Pump in locations where compressed air is unavailable or too cumbersome for short-distance fluid transfer.



#### Electrical Flexibility

- Available in 12 VDC and 115 VAC power options.

#### Smooth Fluid Flow 8 gpm (30 lpm)

- Output flow is continuous and non-pulsating up to 8 gpm (30 lpm).

#### Heavy-Duty Motor with Long Life

- Industrial-grade electric motors with over-temperature protection on 115 VAC models.

#### Consistent Pressure

- Built-in fluid bypass valve protects pump and downstream components.

#### Pump Protection

- Includes inlet strainer to keep larger debris out of pump housing and extend pump life.

#### Plug and Play

- Self-priming, precision-machined pump design.

### TYPICAL APPLICATIONS

- Filling bulk tanks from drums
- Lubricant transfer from remote locations
- Construction equipment
- Agricultural equipment
- Filling in-plant machinery
- Evacuating used oil receivers
- Filling shop oil furnaces with new or used oil
- Automotive and truck service garages
- Fleet marine and personal boat service
- Aircraft maintenance

### EGP ON-DEMAND PUMPS

Install the EGP On-Demand Pump in a variety of applications including workshops, mobile trucks and industrial plants. Use it as an energy-efficient option to standard pneumatic pumps.



#### Electrical Flexibility

- Available in 12 VDC and 115 VAC power options.

#### Smooth Fluid Flow 4 gpm (15 lpm)

- Output flow is continuous and non-pulsating up to 4 gpm (15 lpm).

#### Heavy-Duty Motor with Long Life

- Industrial-grade electric motor with over-temperature protection on 115 VAC model.

#### Fluid Flow When Needed

- On-demand pressure sensing technology starts and stops the pump during the dispense.

#### Pump Reliability

- Internal inlet and outlet checks keep pump section flooded to maintain prime for reliable performance.

#### Simultaneous Dispenses

- Pump long distances and supply fluid to multiple dispense points.

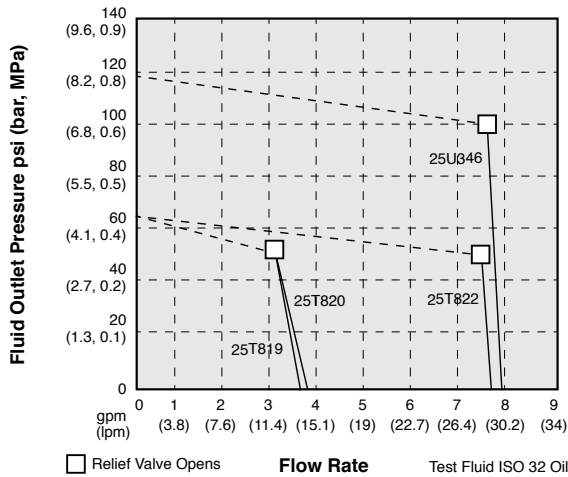
### TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Waste oil
- Hydraulic fluids
- Cutting oils
- Non-flammable oil-based solvents
- Oil-based herbicide carriers

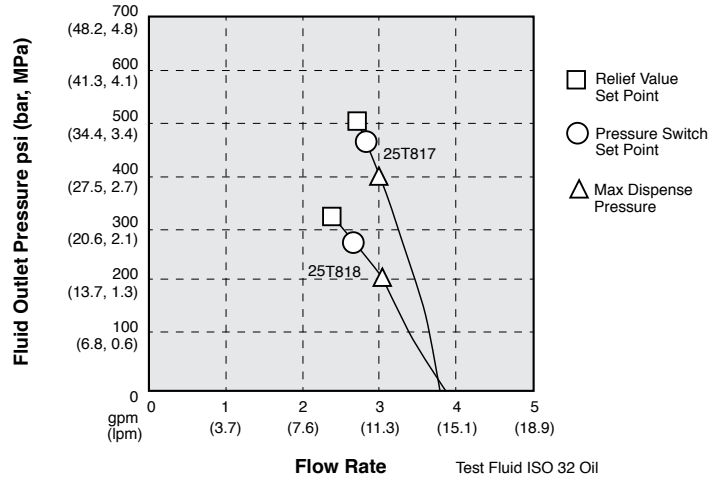


## PUMP PERFORMANCE

### EGP TRANSFER PUMPS PERFORMANCE CHART



### EGP ON-DEMAND PUMPS PERFORMANCE CHART



## ORDERING OPTIONS

|                                    | EGP Transfer Pump Models                                                                                      |            |            |            |             | EGP On-Demand Pump Models                                                                    |            |
|------------------------------------|---------------------------------------------------------------------------------------------------------------|------------|------------|------------|-------------|----------------------------------------------------------------------------------------------|------------|
| Package Part Number                | 25T819                                                                                                        | 25T820     | 25T822     | -          | -           | -                                                                                            | -          |
| Pump Part Number                   | -                                                                                                             | -          | -          | 2005948    | 25U346      | 25T817                                                                                       | 25T818     |
| Voltage                            | 12 VDC                                                                                                        | 115 VAC    | 115 VAC    | 115 VAC    | 115 VAC     | 115 VAC                                                                                      | 12 VDC     |
| Hertz                              | -                                                                                                             | 60 Hz      | 60 Hz      | 60 Hz      | 60 Hz       | 60 Hz                                                                                        | -          |
| Motor Type                         | TENV                                                                                                          | ODP        | ODP        | ODP        | TENV - IP55 | TENV - IP55                                                                                  | TENV       |
| Horsepower                         | 1/2                                                                                                           | 1/2        | 3/4        | 3/4        | 1.0         | 1.5                                                                                          | 3/4        |
| Maximum Current (Amps)             | 30                                                                                                            | 8.7        | 9.9        | 9.9        | 9.1         | 14.4                                                                                         | 60         |
| Maximum Free Flow Rate gpm (lpm)   | 3.8 (14.4)                                                                                                    | 3.9 (14.8) | 7.7 (29.1) | 7.7 (29.1) | 7.7 (29.1)  | 3.7 (14.0)                                                                                   | 3.8 (14.4) |
| Maximum Pressure psi (bar)         | 65 (4.5)                                                                                                      | 65 (4.5)   | 65 (4.5)   | 65 (4.5)   | 120 (8.3)   | 500 (34.5)                                                                                   | 325 (22.4) |
| Automatic Relief Setting psi (bar) | 65 (4.5)                                                                                                      | 65 (4.5)   | 65 (4.5)   | 65 (4.5)   | 120 (8.3)   | 500 (34.5)                                                                                   | 325 (22.4) |
| Inlet                              | 1 in NPT                                                                                                      | 1 in NPT   | 1 in NPT   | 1 in NPT   | 1 in NPT    | 3/4 in NPT                                                                                   | 3/4 in NPT |
| Outlet                             | 3/4 in NPT                                                                                                    | 3/4 in NPT | 3/4 in NPT | 3/4 in NPT | 3/4 in NPT  | 1/2 in NPT                                                                                   | 1/2 in NPT |
| Bung Adapter                       | 260061                                                                                                        |            |            |            |             |                                                                                              |            |
| Dispense Kit                       | 133376                                                                                                        |            |            | -          | -           | -                                                                                            | -          |
| Suction Kit                        | 133375                                                                                                        |            |            | -          | -           | -                                                                                            | -          |
| Wetted Parts                       | Carbon steel with zinc plating, stainless steel, galvanized steel, aluminum, nitrile, rubber, PVC, PVC cement |            |            |            |             | Carbon steel with zinc plating, stainless steel, galvanized steel, aluminum, nitrile, rubber |            |
| Weight lb (kg)                     | 25 (11)                                                                                                       | 22 (10)    | 25 (11)    | 25 (11)    | 25 (11)     | 36 (16.3)                                                                                    | 36 (16.3)  |
| Manual                             | 3A8569                                                                                                        | 3A8568     | 3A8568     | 3A8568     | 3A8568      | 3A8570                                                                                       | 3A8571     |

# EGP™ TRANSFER AND EGP ON-DEMAND

## ORDERING OPTIONS

### ACCESSORIES

|                                                                                     | Part Number | Description                                                                |
|-------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------|
|    | 133412      | Wall mounting bracket, fits all transfer models                            |
|    | 260238      | "Y" strainer with 3/4 in NPT female in-line strainer for used oil transfer |
|    | 133377      | Suction filter                                                             |
|   | 260124      | 55 in (1.3 m) PVC suction tube with inlet check valve                      |
|  | 133376      | Dispense valve kit                                                         |
|  | 133375      | Suction tube kit, 3/4 in PVC                                               |

SPECIALTY PUMPS



# HOSE AND CORD REELS

|                                              | Page    |
|----------------------------------------------|---------|
| Hose Reel Selection Guide .....              | 212     |
| LDX™ Series Hose Reels .....                 | 214-215 |
| SDX™ Series Hose Reels .....                 | 216-221 |
| SD™ Series Cord and Light Reels .....        | 222-225 |
| XDX™ Series 10/20 Hose Reels .....           | 226-230 |
| XD™ Series 30 Hose Reels .....               | 231-235 |
| XD™ Series 40/50 Hose Reels .....            | 236-241 |
| XD™ Series 60/70/80 Powered Hose Reels ..... | 242-246 |
| Hose Reel Accessories .....                  | 247-250 |

# HOSE AND CORD REEL SELECTION GUIDE

|                                                                                                                           | Typical Application                                                                                                                                                                                                                                                                                           | Typical Fluid                                                                                                                                                                                                                                                                                                            | Hose/Cord Length Options                                                                                                                   | Enclosed | Reference Pages |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|
|  <p><b>LDX™ Series</b></p>               | <ul style="list-style-type: none"> <li>• Small maintenance shops</li> <li>• Tire maintenance shops</li> <li>• Small fast lubes</li> <li>• Independent repair facilities</li> <li>• Industrial manufacturing facilities</li> </ul>                                                                             | <ul style="list-style-type: none"> <li>• Petroleum- and synthetic-based oils</li> <li>• Air</li> <li>• Water</li> <li>• Grease</li> <li>• Antifreeze</li> <li>• Windshield washer fluid</li> <li>• Diesel exhaust fluid (DEF)</li> </ul>                                                                                 | <ul style="list-style-type: none"> <li>• 45 ft (14 m) – DEF only</li> <li>• 50 ft (15 m)</li> </ul>                                        | No       | 214-215         |
|  <p><b>SDX™ 10 / 20 Series</b></p>       | <ul style="list-style-type: none"> <li>• Car dealerships</li> <li>• Light-/medium-duty truck dealers</li> <li>• Fleet maintenance</li> <li>• Public works garages</li> <li>• Construction vehicle maintenance</li> <li>• Light-utility service trucks</li> </ul>                                              | <ul style="list-style-type: none"> <li>• Petroleum- and synthetic-based oils</li> <li>• Air</li> <li>• Water</li> <li>• Grease</li> <li>• Antifreeze</li> <li>• Windshield washer fluid</li> </ul>                                                                                                                       | <ul style="list-style-type: none"> <li>• 35 ft (11 m)</li> <li>• 50 ft (15 m)</li> <li>• 65 ft (20 m)</li> </ul>                           | Optional | 216-221         |
|  <p><b>SD™ Series Cord Reels</b></p>    | <ul style="list-style-type: none"> <li>• Automotive dealerships</li> <li>• Fast lube centers</li> <li>• Service shops</li> <li>• Heavy-duty dealerships</li> <li>• Fleet services facilities</li> <li>• In-plant</li> <li>• Lube trucks</li> <li>• Mining</li> </ul>                                          | –                                                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>• 35 ft (11 m)</li> <li>• 50 ft (15 m)</li> <li>• 95 ft (29 m)</li> </ul>                           | Optional | 222-225         |
|  <p><b>DX™ 20 Series</b></p>           | <ul style="list-style-type: none"> <li>• Heavy-duty truck dealers</li> <li>• Fleet maintenance</li> <li>• Mining maintenance</li> <li>• Public works garage</li> <li>• Construction vehicle maintenance</li> <li>• Heavy-duty mobile service trucks</li> <li>• Mining</li> <li>• Lube trucks</li> </ul>       | <ul style="list-style-type: none"> <li>• Petroleum- and synthetic-based oils</li> <li>• Air</li> <li>• Water</li> <li>• Grease</li> <li>• Antifreeze</li> <li>• Windshield washer fluid</li> </ul>                                                                                                                       | <ul style="list-style-type: none"> <li>• 50 ft (15 m)</li> <li>• 65 ft (20 m)</li> </ul>                                                   | Optional | 226-230         |
|  <p><b>XD™ 30 Series</b></p>           | <ul style="list-style-type: none"> <li>• Heavy-duty truck dealers</li> <li>• Fleet maintenance</li> <li>• Mining maintenance</li> <li>• Public works garage</li> <li>• Construction vehicle maintenance</li> <li>• Heavy-duty mobile service trucks</li> <li>• Mining</li> <li>• Lube trucks</li> </ul>       | <ul style="list-style-type: none"> <li>• Petroleum- and synthetic-based oils</li> <li>• Diesel fuel</li> <li>• Air</li> <li>• Water</li> <li>• Grease</li> <li>• Antifreeze</li> <li>• Windshield washer fluid</li> <li>• Pressure wash</li> <li>• Waste oil evacuation</li> <li>• Diesel exhaust fluid (DEF)</li> </ul> | <ul style="list-style-type: none"> <li>• 35 ft (11 m)</li> <li>• 50 ft (15 m)</li> <li>• 65 ft (20 m)</li> <li>• 75 ft (23 m)</li> </ul>   | No       | 231-235         |
|  <p><b>XD™ 40 / 50 Series</b></p>      | <ul style="list-style-type: none"> <li>• Heavy-duty truck dealers</li> <li>• Fleet maintenance</li> <li>• Mining maintenance</li> <li>• Public works garages</li> <li>• Construction vehicle maintenance</li> <li>• Heavy-duty mobile service trucks</li> <li>• Agriculture</li> <li>• Lube trucks</li> </ul> | <ul style="list-style-type: none"> <li>• Petroleum- and synthetic-based oils</li> <li>• Diesel fuel</li> <li>• Air</li> <li>• Water</li> <li>• Antifreeze</li> <li>• Waste oil evacuation</li> </ul>                                                                                                                     | <ul style="list-style-type: none"> <li>• 35 ft (11 m)</li> <li>• 50 ft (15 m)</li> <li>• 75 ft (23 m)</li> <li>• 100 ft (30 m)</li> </ul>  | No       | 236-241         |
|  <p><b>XD™ 60 / 70 / 80 Series</b></p> | <ul style="list-style-type: none"> <li>• Heavy-duty truck dealers</li> <li>• Fleet maintenance</li> <li>• Mining maintenance</li> <li>• Public works garages</li> <li>• Construction vehicle maintenance</li> <li>• Heavy-duty mobile service trucks</li> <li>• Agriculture</li> <li>• Lube trucks</li> </ul> | <ul style="list-style-type: none"> <li>• Petroleum- and synthetic-based oils</li> <li>• Diesel fuel</li> <li>• Air</li> <li>• Water</li> <li>• Grease</li> <li>• Waste oil evacuation</li> </ul>                                                                                                                         | <ul style="list-style-type: none"> <li>• 50 ft (15 m)</li> <li>• 75 ft (23 m)</li> <li>• 100 ft (30 m)</li> <li>• 150 ft (46 m)</li> </ul> | No       | 242-246         |



HOSE AND CORD REELS

# LDX SERIES HOSE REELS

## THE ULTIMATE INDUSTRIAL-GRADE HOSE REEL

Designed with an all-metal frame and specially crafted components; Graco LDX hose reels ensure smooth release and retraction to optimize confidence in cost-conscious smaller garages, independent repair facilities and industrial manufacturing environments.

### Adjustable Arm

Easily change to one of six arm positions to fit your application.

### External Swivel Housing

Quickly access swivel seal for faster repairs.

### Ball Bearing Swivel

Swivel designed with internal ball bearings reduces friction and ensures smooth operation.

### Large Hose Capacity with Small Profile

Compact design accommodates up to a 50 foot (15 meter) hose to meet a wide variety of application requirements.

### Dual Pedestal Frame

Ribbed metal for increased stability and robustness.



## TYPICAL APPLICATIONS

- Industrial manufacturing facilities
- Small maintenance shops
- Tire maintenance shops
- Small fast lubes
- Independent repair facilities

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Air
- Water
- Grease
- Antifreeze
- Windshield washer fluid
- Diesel exhaust fluid (DEF)

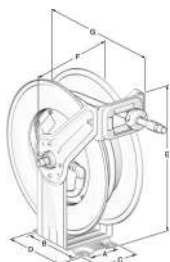
## TECHNICAL SPECIFICATIONS

|                                              |                                                        |
|----------------------------------------------|--------------------------------------------------------|
| Operating Temperature Range                  |                                                        |
| Air/Water/Antifreeze/Windshield Washer Fluid | 14.5°F to 149°F (-26°C to 65°C)                        |
| DEF                                          | -40°F to 158°F (-40°C to 70°C)                         |
| Oil                                          | -40°F to 212°F (-40°C to 100°C)                        |
| Grease                                       | -40°F to 212°F (-40°C to 100°C)                        |
| Wetted Parts                                 |                                                        |
| Air/Water/Antifreeze/Windshield Washer Fluid | EPDM, stainless steel, fluorocarbon (FKM)              |
| DEF                                          | Hybrid polymer, brass, nitrile rubber                  |
| Oil                                          | Zinc-plated steel, brass, polyurethane, nitrile rubber |
| Grease                                       | Zinc-plated steel, brass, nitrile rubber               |
| Sound Pressure Level                         | 80 dB(A)                                               |
| Sound Power Level                            | 87 dB(A)                                               |
| Instruction Manual                           | 3A8216                                                 |



## DIMENSIONS

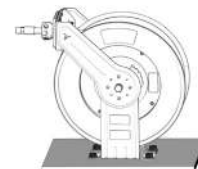
|   |                  |
|---|------------------|
| A | 3.5 in (89 mm)   |
| B | 7.5 in (191 mm)  |
| C | 4.9 in (125 mm)  |
| D | 8.7 in (221 mm)  |
| E | 19.0 in (483 mm) |
| F | 9.4 in (239 mm)  |
| G | 17.5 in (445 mm) |



## TYPICAL MOUNTING CONFIGURATIONS



### Bench Mount



## ORDERING OPTIONS

### LDX REELS

| Part Number | Fluid                                        | Hose    |             | Connection Size |             | Maximum Pressure PSI |
|-------------|----------------------------------------------|---------|-------------|-----------------|-------------|----------------------|
|             |                                              | ID (in) | Length (ft) | Inlet (in)      | Outlet (in) |                      |
| HEL010      | Air/Water/Antifreeze/Windshield Washer Fluid | 3/8     | 50          | 3/8 NPT         | 3/8 NPT     | 300                  |
| HEL012      | Air/Water/Antifreeze/Windshield Washer Fluid | 3/8     | 50          | 3/8 NPT         | 1/4 NPT     | 300                  |
| HEL015      | DEF                                          | 1/2     | 45          | 1/2 BSPT        | 1/2 BSPT    | 150                  |
| HEM004      | Oil                                          | 1/2     | 50          | 1/2 NPT         | 1/2 NPT     | 1,500                |
| HEH006      | Grease                                       | 3/8     | 50          | 3/8 NPT         | 3/8 NPT     | 4,060                |

### INLET KITS

| Part Number | Fluid                                        |
|-------------|----------------------------------------------|
| 25U369      | Air/Water/Antifreeze/Windshield Washer Fluid |
| 25U370      | DEF                                          |
| 25U371      | Oil                                          |
| 25U372      | Grease                                       |

### ACCESSORIES

| Part Number | Description                             |
|-------------|-----------------------------------------|
| 18F444      | 1/2 in BSPT to 3/4 in hose barb adapter |
| 18F445      | 1/2 in to 3/4 in adapter, BSPT          |

# SDX SERIES HOSE REELS

## HIGH-QUALITY PERFORMANCE AND VERSATILITY

Improve performance along with the look of any environment with Graco's flagship SDX hose reel. Built with specially crafted components, including a rigid metal frame and spool and effortless retraction swivels, it's available in five colors. An easy-to-service swivel cartridge design simplifies maintenance. Retraction and recoil are uniform and consistent every time.

### Durable Finish

Baked-on enamel finish (five colors available) protects reel from corrosion.

### Full-Flow Swivel

Maximize material flow with minimal pressure drop for faster fills to get more vehicles through your shop.

### Low-Friction Cartridge Swivel

Provides smooth reel performance with an easy-to-replace swivel cartridge, simplifying repairs.

### Adjustable Arm

Easily change to one of six arm positions to fit your application.

### Heavy-Duty Spring

Powerful retraction performance ensures recoils are uniform and consistent every time.



Reel arm shown in tank/bench mount position.

### Large Hose Capacity with Small Profile

Compact pedestal and spool fits into tight spaces and can accommodate 35-65 foot (10.7-19.8 meters) hose (NPT air/water) capacity for a wide variety of applications.

## TYPICAL APPLICATIONS

- Car dealerships
- Light-/medium-duty truck dealers
- Fleet maintenance
- Public works garages
- Construction vehicle maintenance
- Light-utility service trucks

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Air
- Water
- Grease
- Antifreeze/coolant
- Windshield washer fluid

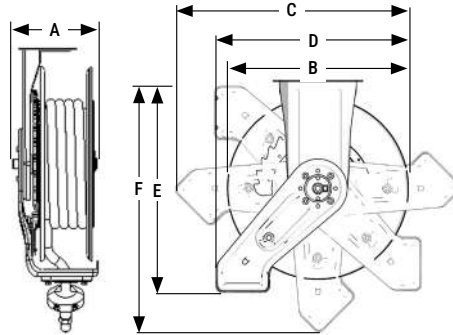
## TECHNICAL SPECIFICATIONS

|                                              |                                                                       |
|----------------------------------------------|-----------------------------------------------------------------------|
| Operating Temperature Range                  |                                                                       |
| Air/Water/Antifreeze/Windshield Washer Fluid | -20°F to 190°F (-28°C to 87°C)                                        |
| Oil                                          | -20°F to 190°F (-28°C to 87°C)                                        |
| Grease                                       | -40°F to 200°F (-40°C to 93°C)                                        |
| Wetted Parts                                 |                                                                       |
| Air/Water/Antifreeze/Windshield Washer Fluid | Zinc-plated steel, stainless steel, anodized aluminum, nitrile rubber |
| Oil                                          | Zinc-plated steel, anodized aluminum, nitrile rubber                  |
| Grease                                       | Zinc-plated steel, nitrile rubber, steel                              |
| Weight                                       | 52 lb (23.5 kg)                                                       |
| Sound Pressure Level                         | 80 dB(A)                                                              |
| Sound Power Level                            | 87 dB(A)                                                              |
| Instruction Manual                           | 3A8626                                                                |



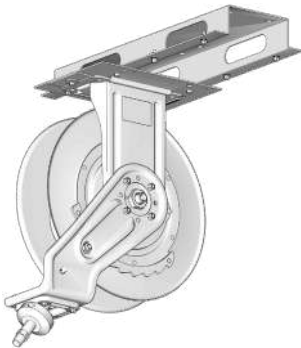
## DIMENSIONS

|   | SDX 10           | SDX 20           |
|---|------------------|------------------|
| A | 7.0 in (177 mm)  | 7.0 in (177 mm)  |
| B | 16.2 in (412 mm) | 18.1 in (460 mm) |
| C | 21.0 in (533 mm) | 23.4 in (594 mm) |
| D | 17.1 in (435 mm) | 19.2 in (488 mm) |
| E | 19.5 in (495 mm) | 21.8 in (554 mm) |
| F | 22.5 in (571 mm) | 25.2 in (640 mm) |

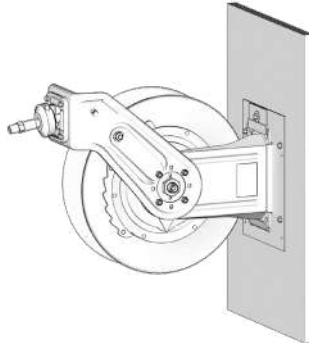


## TYPICAL MOUNTING CONFIGURATIONS

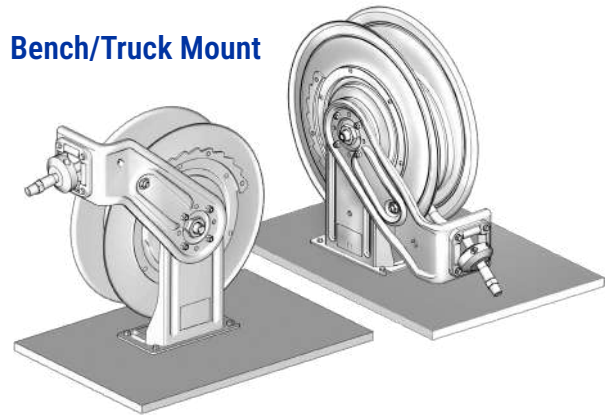
### Overhead Mount



### Wall Mount



### Bench/Truck Mount



HOSE AND CORD REELS

Available in  
**5 COLORS**  
Consult factory for lead times

Metallic Blue (B)



Black (D)



Red (C)



SDX10 &  
SDX20

Yellow (F)



White (A)



SDX20  
ONLY

# SDX SERIES HOSE REELS

## ORDERING OPTIONS

### SDX 10/20 Reel Assembly Ordering Guide

SDX Series reels are available in five colors. Use the chart below to determine the correct part number to order. The last character of each part number indicates the hose reel color.

| Reel Color    | Identifier |
|---------------|------------|
| White         | A          |
| Metallic Blue | B          |
| Red           | C          |
| Black         | D          |
| Yellow        | F          |

**ORDER EXAMPLE:** Arm in overhead mount position, SDX 20, oil, 1/2 in ID hose, 50 ft hose length

**1** Select your reel position: SDM65#

**2** Select your reel color: Metallic Blue = "B"  
(from Reel Assembly Ordering Guide – opposite)

**Order Part Number:** **SDM65B**



### ARM IN OVERHEAD MOUNT POSITION

Assembled with hose, ball stop kit and roller guide. **Required hose inlet kit sold separately.**

|        | Reel Size | Fluid                                        | Hose       |               | Connection Size |                | Maximum Pressure psi (bar) | Assembly Part Number | Recommended Hose Inlet Kit |
|--------|-----------|----------------------------------------------|------------|---------------|-----------------|----------------|----------------------------|----------------------|----------------------------|
|        |           |                                              | ID in (mm) | Length ft (m) | Inlet in (mm)   | Outlet in (mm) |                            |                      |                            |
|        | SDX 10    | Air/Water/Antifreeze/Windshield Washer Fluid | 3/8 (10)   | 35 (11)       | 1/2 (13)        | 3/8 (10)       | 300 (20.7)                 | SDL23#               | 218549                     |
|        |           |                                              | 3/8 (10)   | 50 (15)       | 1/2 (13)        | 3/8 (10)       | 300 (20.7)                 | SDL25#               |                            |
|        |           |                                              | 1/2 (13)   | 35 (11)       | 1/2 (13)        | 1/2 (13)       | 300 (20.7)                 | SDL33#               |                            |
|        | SDX 20    |                                              | 3/8 (10)   | 65 (20)       | 1/2 (13)        | 3/8 (10)       | 300 (20.7)                 | SDL56#               |                            |
|        |           |                                              | 1/2 (13)   | 50 (15)       | 1/2 (13)        | 1/2 (13)       | 300 (20.7)                 | SDL65#               |                            |
|        |           |                                              | SDX 10     | Oil           | 1/2 (13)        | 35 (11)        | 1/2 (13)                   | 1/2 (13)             |                            |
| SDX 20 | 1/2 (13)  | 50 (15)                                      |            |               | 1/2 (13)        | 1/2 (13)       | 2,000 (138)                | SDM65#               |                            |
| SDX 20 | Grease    | 3/8 (10)                                     | 50 (15)    | 3/8 (10)      | 1/4 (6)         | 4,800 (331)    | SDH55#                     | 218550               |                            |

### ARM IN TANK/BENCH MOUNT POSITION

Assembled with hose, ball stop kit and roller guide. **Required hose inlet kit sold separately.**

|  | Reel Size | Fluid | Hose       |               | Connection Size |                | Maximum Pressure psi (bar) | Assembly Part Number | Recommended Hose Inlet Kit |
|--|-----------|-------|------------|---------------|-----------------|----------------|----------------------------|----------------------|----------------------------|
|  |           |       | ID in (mm) | Length ft (m) | Inlet in (mm)   | Outlet in (mm) |                            |                      |                            |
|  | SDX 20    | Oil   | 1/2 (13)   | 50 (15)       | 1/2 (13)        | 1/2 (13)       | 2,000 (138)                | SDM6HB               | 218549                     |




## ORDERING OPTIONS



### BARE REELS

#### ARM IN OVERHEAD MOUNT POSITION

Required hose inlet kit sold separately. Fluid hose not included.

|  | Reel Size | Fluid                                        | Hose (Not Included) |               | Connection Size |                | Maximum Pressure psi (bar) | Assembly Part Number | Recommended Hose Inlet Kit |
|-----------------------------------------------------------------------------------|-----------|----------------------------------------------|---------------------|---------------|-----------------|----------------|----------------------------|----------------------|----------------------------|
|                                                                                   |           |                                              | ID in (mm)          | Length ft (m) | Inlet in (mm)   | Outlet in (mm) |                            |                      |                            |
|                                                                                   | SDX 20    | Air/Water/Antifreeze/Windshield Washer Fluid | 3/8 (10)            | 65 (20)       | 1/2 (13)        | 1/2 (13)       | 300 (20.7)                 | SDL6D#               | 218549                     |
|                                                                                   |           |                                              | 1/2 (13)            | 50 (15)       | 1/2 (13)        | 1/2 (13)       | 300 (20.7)                 | SDL6D#               |                            |
| SDX 20                                                                            | Oil       | 1/2 (13)                                     | 50 (15)             | 1/2 (13)      | 1/2 (13)        | 2,000 (138)    | SDM6D#                     |                      |                            |
| SDX 20                                                                            | Grease    | 3/8 (10)                                     | 50 (15)             | 3/8 (10)      | 3/8 (10)        | 5,000 (345)    | SDH5D#                     | 218550               |                            |

### SDX 10 OIL REEL PACKAGES




|   | Reel Size | Fluid | Valve Type                                | Enclosure | Package Number | Package Includes |           |                |        |
|-------------------------------------------------------------------------------------|-----------|-------|-------------------------------------------|-----------|----------------|------------------|-----------|----------------|--------|
|                                                                                     |           |       |                                           |           |                | Reel Assembly    | Enclosure | Hose Inlet Kit | Meter  |
|                                                                                     | SDX 10    | Oil   | SDM8 Manual Meter with Rigid Extension    | No        | 24E001         | SDM33B           | -         | 218549         | 25M404 |
|                                                                                     |           |       |                                           | Yes       | 24D996         | SDM33B           | 24A217    | 218549         | 25M404 |
|                                                                                     | SDX 10    | Oil   | SDM8 Manual Meter with Flexible Extension | No        | 24E002         | SDM33B           | -         | 218549         | 25M406 |
|                                                                                     |           |       |                                           | Yes       | 24D997         | SDM33B           | 24A217    | 218549         | 25M406 |
|  |           |       | None                                      | Yes       | 24D995         | SDM33B           | 24A217    | 218549         | -      |

HOSE AND CORD REELS

# SDX SERIES HOSE REELS

## ORDERING OPTIONS

### SDX 10 AIR/WATER REEL PACKAGES

|                                                                                    | Reel Size | Fluid     | Valve Type               | Enclosure | Package Number | Package Includes |           |                |        |         |
|------------------------------------------------------------------------------------|-----------|-----------|--------------------------|-----------|----------------|------------------|-----------|----------------|--------|---------|
|                                                                                    |           |           |                          |           |                | Reel Assembly    | Enclosure | Hose Inlet Kit | Valve  | Fitting |
|   | SDX 10    | Water     | Water Bib Dispense Valve | No        | 24D999         | SDL23B           | -         | 218549         | 180685 | 150287  |
|                                                                                    |           |           |                          | Yes       | 24D993         | SDL23B           | 24A217    | 218549         | 180685 | 150287  |
|                                                                                    |           |           |                          |           | 24D994         | SDL33B           | 24A217    | 218549         | 180685 | 159842  |
|   | SDX 10    | Air       | Tire Chuck Valve         | No        | 24D998         | SDL23B           | -         | 218549         | 218545 | -       |
|                                                                                    |           |           |                          | Yes       | 24D992         | SDL23B           | 24A217    | 218549         | 218545 | -       |
|  | SDX 10    | Air/Water | None                     | Yes       | 24D989         | SDL23B           | 24A217    | 218549         | -      | -       |
|                                                                                    |           |           |                          |           | 24D990         | SDL25B           | 24A217    | 218549         | -      | -       |
|                                                                                    |           |           |                          |           | 24D991         | SDL33B           | 24A217    | 218549         | -      | -       |

## ACCESSORIES


### ENCLOSURE KITS FOR ONE REEL

Open mounting accommodates up to six reels. Includes all parts necessary to mount on wall or overhead. Requires mounting channel.

|                                                                                     | Reel Size | White  | Metallic Blue | Red    | Black  | Dark Blue | Yellow | Required End-Caps (set of 2) |
|-------------------------------------------------------------------------------------|-----------|--------|---------------|--------|--------|-----------|--------|------------------------------|
|  | SDX 10    | 24A217 | 24A940        | 24A941 | 24A942 | 24A943    | 24A944 | 24A950                       |
|                                                                                     | SDX 20    | 24A218 | 24A945        | 24A946 | 24A947 | 24A948    | 24A949 | 24A951                       |


### HOSE INLET KITS

A hose inlet kit is required when ordering an SDX reel.

|                                                                                     | Maximum Working Pressure psi (bar) | Size in (mm) | Length ft (m) | Part Number |
|-------------------------------------------------------------------------------------|------------------------------------|--------------|---------------|-------------|
|  | 2,000 (137)                        | 1/2 (13)     | 2 (0.6)       | 218549      |
|                                                                                     | 4,000 (276)                        | 3/8 (10)     |               | 218550      |
|                                                                                     | 5,000 (345)                        | 1/4 (6)      |               | 224417      |

### BALL STOP KITS

SDX reel packages include ball stop kits. Items below are available for bare reels and as replacement parts.

|                                                                                     | Hose Inner Diameter (ID) Size        | Part Number |
|-------------------------------------------------------------------------------------|--------------------------------------|-------------|
|  | 1/4 in (6.4 mm)                      | 222225      |
|                                                                                     | 1/4 in to 3/8 in (6.4 mm to 9.5 mm)  | 218340      |
|                                                                                     | 3/8 in to 1/2 in (9.5 mm to 12.7 mm) | 218341      |
|                                                                                     | 5/8 in (15.9 mm)                     | 237872      |






# SDX SERIES HOSE REEL ACCESSORIES

## ORDERING OPTIONS

### MOUNTING CHANNELS


Accommodates up to six reels. Includes all parts necessary to mount on wall or overhead.

|                                                                                   | Description                    | 1 Reel       | 2 Reels | 3 Reels | 4 Reels      | 5 Reels | 6 Reels |
|-----------------------------------------------------------------------------------|--------------------------------|--------------|---------|---------|--------------|---------|---------|
|  | Enclosed Reel Mounting Channel | 203521       | 203522  | 203523  | 203524       | 203525  | 203526  |
|  | Open Reel Mounting Channel     | 24A934       | 24A935  | 24A936  | 24A937       | 24A938  | 24A939  |
|  | I-Beam Mounting Bracket*       | 204741 (x 2) |         |         | 204741 (x 3) |         |         |

\*Secures mounting channel to I-beam without drilling – 2 are required for 1-3 reels, and 3 are required for 4-6 reels.


### SWIVEL MOUNTING BRACKET

Allows reel to swivel 120° with two lockable positions.


|                                                                                     | Part Number | Description                                         |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------------------|
|  | 24N444      | Swivel mounting bracket for installing SDX 10 reels |

### EASY SLIDE-IN MOUNT

Allows reel to slide in and out of mount for easy installation.

|                                                                                     | Part Number | Description                                                |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|
|  | 24H193      | Overhead or wall slide-in mount for SDX 10 or SDX 20 reels |

### RETROFIT ADAPTER KITS

|                                                                                     | Part Number | Description                                                                                               |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------|
|  | 24C100      | Includes all parts to mount an SDX 10 hose reel to an existing 250 series mounting pattern with enclosure |

# SD SERIES CORD AND LIGHT REELS

## QUALITY CORD AND LIGHT REELS

Organize your work space for a safer, more productive work environment. Make Graco your single source for your entire reel bank.

### Durable Frame in Two Sizes

Choose from the heavy-duty steel construction of the SD Series 5 or 10.

### Multiple Cord Lengths

- Choose from 35, 50 and 95 foot (11, 15, 29 meter) options to fit your shop perfectly.
- Features a 5 foot lead-in cable.

### Adjustable Arm

- Easily change the arm position to fit more applications.
- Works on walls, overhead or bench mounts.

### Heavy-Duty Pedestal

High-strength steel construction with rolled edges and ribbed stress points that won't flex or twist.

### Multiple Configurations Available

- Comes with or without receptacles so you can configure it for your specific needs.
- Light reels come in your choice of fluorescent or LED with optional tool tap receptacle.



UL/CSA Approved

## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities
- In-plant
- Lube trucks
- Mining

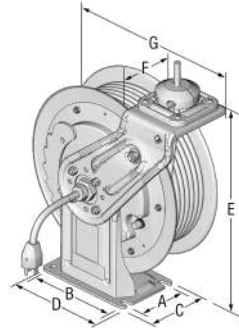
## TECHNICAL SPECIFICATIONS

|                             |       |                                |         |
|-----------------------------|-------|--------------------------------|---------|
| Operating Temperature Range |       |                                |         |
| Cord Reels                  |       | -22°F to 122°F (-30°C to 50°C) |         |
| Light Reels                 |       | -4°F to 104°F (-20°C to 40°C)  |         |
| Weight without Accessories  |       |                                |         |
| 120V                        | SD 5  | 12 AWG, Length 50 ft           | 25.4 lb |
|                             |       | 16 AWG, Length 95 ft           | 46.3 lb |
|                             | SD 10 | 12 AWG, Length 95 ft           | 51.8 lb |
| Instruction Manual          |       |                                | 3A2592  |



## DIMENSIONS




|   | SD Series 5       | SD Series 10     |
|---|-------------------|------------------|
| A | 3.5 in (89 mm)    | 3.5 in (89 mm)   |
| B | 6.38 in (162 mm)  | 7.5 in (191 mm)  |
| C | 4.7 in (120 mm)   | 4.7 in (120 mm)  |
| D | 7.48 in (190 mm)  | 9 in (229 mm)    |
| E | 14.8 in (376 mm)  | 19.5 in (498 mm) |
| F | 6.6 in (168 mm)   | 7 in (177 mm)    |
| G | 13.84 in (352 mm) | 17.5 in (445 mm) |



## ORDERING OPTIONS

### SD CORD AND LIGHT REELS – 120 VOLT

120 volt cord and light reels have a black finish and are ETL approved to US and CSA standards.

|                                                                                     | Accessory                           | Reel Size | AWG | Amp | Cord Length  | Insulation | Part Number |
|-------------------------------------------------------------------------------------|-------------------------------------|-----------|-----|-----|--------------|------------|-------------|
|   | Single Industrial Receptacle        | SD 5      | 12  | 20  | 50 ft (15 m) | SJ00W      | 24Y863      |
|                                                                                     |                                     | SD 10     | 12  | 18  | 95 ft (29 m) | SJ00W      | 24Y882      |
|  | Tri-Plug GFCI Industrial Receptacle | SD 5      | 12  | 15  | 50 ft (15 m) | SJ00W      | 24Y864      |
|                                                                                     |                                     | SD 10     | 12  | 15  | 95 ft (29 m) | SJ00W      | 24Y883      |
|  | LED Light with In-line Tool Tap     | SD 5      | 16  | 12  | 50 ft (15 m) | SJT0W      | 24Y872      |
|                                                                                     |                                     | SD 10     | 16  | 10  | 95 ft (29 m) | SJT0W      | 24Y887      |

# SD SERIES CORD AND LIGHT REEL ACCESSORIES

## ORDERING OPTIONS




### ENCLOSURE KITS

Includes an enclosure for one reel. A set of end-caps are required per single or bank of reels. Requires you to order Enclosed Reel Mounting Channel separately. For mounting SD 5 or SD 10 reels in size 20 enclosures, please see Adapter Kits on page 227.

|  | Reel Size                    | White  | Metallic Blue | Red    | Black  | Dark Blue | Yellow | Required End-Caps (set of 2) |
|-----------------------------------------------------------------------------------|------------------------------|--------|---------------|--------|--------|-----------|--------|------------------------------|
|                                                                                   | SD 5 with size 10 enclosure  | 24N690 | 24N682        | 24N683 | 24N684 | 24N691    | 24N685 | 24A950                       |
|                                                                                   | SD 10 with size 10 enclosure | 24A217 | 24A940        | 24A941 | 24A942 | 24A943    | 24A944 | 24A950                       |

### MOUNTING CHANNELS

Accommodates up to six reels. Includes all parts necessary to mount on wall or overhead.

|    | Description                    | Reel Size      | 1 Reel       | 2 Reels | 3 Reels | 4 Reels      | 5 Reels | 6 Reels |
|-------------------------------------------------------------------------------------|--------------------------------|----------------|--------------|---------|---------|--------------|---------|---------|
|                                                                                     | Enclosed Reel Mounting Channel | SD 5 and SD 10 | 203521       | 203522  | 203523  | 203524       | 203525  | 203526  |
|  | Open Reel Mounting Channel     | SD 5           | 24N674       | 24N675  | -       | -            | -       | -       |
|                                                                                     |                                | SD 10          | 24A934       | 24A935  | 24A936  | 24A937       | 24A938  | 24A939  |
|  | I-Beam Mounting Bracket*       | SD 5 and SD 10 | 204741 (x 2) |         |         | 204741 (x 3) |         |         |


\*Secures mounting channel to I-beam without drilling - 2 are required for 1-3 reels, and 3 are required for 4-6 reels.



## ORDERING OPTIONS


### SWIVEL MOUNTING BRACKET

Allows reel to swivel 120° with two lockable positions.


|  | Reel Size | Part Number | Description                              |
|-----------------------------------------------------------------------------------|-----------|-------------|------------------------------------------|
|                                                                                   | SD 5      | 24N814      | Swivel mounting bracket for installation |
|                                                                                   | SD 10     | 24N444      | Swivel mounting bracket for installation |

### WALL/OVERHEAD MOUNTING BRACKET

Allows you to slide the reel in and out for easy installation.


|  | Reel Size | Part Number | Description                        |
|------------------------------------------------------------------------------------|-----------|-------------|------------------------------------|
|                                                                                    | SD 5      | 24N686      | Wall/overhead easy mount plate kit |
|                                                                                    | SD 10     | 24H193      | Wall/overhead easy mount plate kit |

### ADAPTER KITS

|  | Part Number | Description                                                                 |
|-------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------|
|                                                                                     | 24P164      | Spacer bracket for mounting a size 5 reel to an existing size 10 enclosure  |
|                                                                                     | 24P880      | Spacer bracket for mounting a size 5 reel to an existing size 20 enclosure  |
|                                                                                     | 24P881      | Spacer bracket for mounting a size 10 reel to an existing size 20 enclosure |
|                                                                                     | 16N883      | Clamping plate to mount a size 5 reel to an existing SD Series open channel |

### HANDS-FREE MAGNETIC CLIP

Non-marring cover won't scratch vehicle finish. Snap onto light tube for hands-free operation.

|  | Part Number | Description                  |
|-------------------------------------------------------------------------------------|-------------|------------------------------|
|                                                                                     | 16P999      | Magnetic clip for light tube |

# XDX SERIES HOSE REELS

20

## PERFORMANCE IN THE MOST DEMANDING APPLICATIONS

The heavy-duty XDX hose reels are designed to handle fluid delivery tasks in the harshest, most challenging environments. Built with specially crafted components to extend performance for many years, the hose reel includes a robust heavy-gauge, dual-pedestal metal frame; steel spool; sealed components; and unique swivel design to transport fluids consistently and safely without fail.

### Large Hose Capacity with Small Profile

Compact pedestal and spool fits into tight spaces and can accommodate 35-65 foot (10.7-19.8 meters) hose capacity for a wide variety of applications.

### Low-Friction Cartridge Swivel

Provides smooth reel performance with an easy-to-replace swivel cartridge, simplifying repairs.

### Full-Flow Swivel

Maximize material flow with minimal pressure drop for faster fills to get more vehicles through your shop.



### Durable Finish

Baked-on enamel finish (four colors available) protects reel from corrosion.

### Optional Adjustable Arm

Easily change to one of six arm positions to fit your application. Order with arm (XD models) or without (XN models).

### Heavy-Duty Adjustable Spring

Powerful retraction performance that allows you to easily increase or decrease spring tension while the reel is pressurized with fluid.

## TYPICAL APPLICATIONS

- Heavy-duty truck dealers
- Fleet maintenance
- Mining maintenance
- Public works garage
- Construction vehicle maintenance
- Heavy-duty mobile service trucks
- Mining
- Lube trucks

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Air
- Water
- Grease
- Antifreeze/coolant
- Windshield washer fluid

## TECHNICAL SPECIFICATIONS

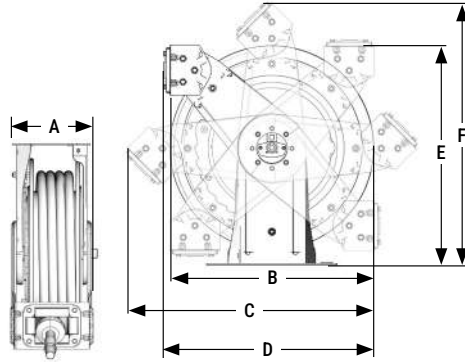
|                                              |                                                                       |
|----------------------------------------------|-----------------------------------------------------------------------|
| Operating Temperature Range                  |                                                                       |
| Air/Water/Antifreeze/Windshield Washer Fluid | -20°F to 190°F (-28°C to 87°C)                                        |
| Oil                                          | -20°F to 190°F (-28°C to 87°C)                                        |
| Grease                                       | -40°F to 200°F (-40°C to 93°C)                                        |
| Wetted Parts                                 |                                                                       |
| Air/Water/Antifreeze/Windshield Washer Fluid | Zinc-plated steel, stainless steel, anodized aluminum, nitrile rubber |
| Oil                                          | Zinc-plated steel, anodized aluminum, nitrile rubber                  |
| Grease                                       | Zinc plated steel, polyurethane, steel                                |
| Weight                                       |                                                                       |
| HS Models (With Adjustable Arm)              | 59 lb (26.5 kg)                                                       |
| HN Models (Without Arm)                      | 52 lb (23.5 kg)                                                       |
| Sound Pressure Level                         | 78 dB(A)                                                              |
| Sound Power Level                            | 88 dB(A)                                                              |
| Instruction Manual                           | 3A8626                                                                |



## DIMENSIONS

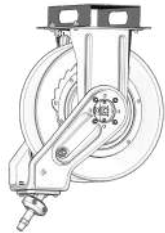
XD Models (with adjustable arm)

|   | XDX 20           |
|---|------------------|
| A | 7.5 in (196 mm)  |
| B | 18.1 in (460 mm) |
| C | 23.4 in (594 mm) |
| D | 20.0 in (508 mm) |
| E | 21.0 in (533 mm) |
| F | 25.2 in (640 mm) |

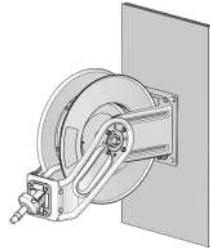


## TYPICAL MOUNTING CONFIGURATIONS

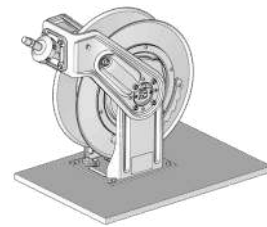
Overhead Mount



Wall Mount



Bench/  
Truck Mount



Available in  
**4 COLORS**  
Consult factory for lead times

Metallic Blue (B)



Yellow (F)



Black (D)



White (A)



# XDX SERIES HOSE REELS

20

## ORDERING OPTIONS

### XDX 20 Reel Assembly Ordering Guide

XDX Series reels are available in three colors. Use the chart below to determine the correct part number to order. The last character of each part number indicates the hose reel color.

| Reel Color    | Identifier |
|---------------|------------|
| White         | A          |
| Metallic Blue | B          |
| Black         | D          |
| Yellow        | F          |

**ORDER EXAMPLE:** Arm in bench/truck mount position, XDX 20, oil, 1/2 in ID hose, 50 ft hose length

**1** Select your reel position: XDM65#

**2** Select your reel color: Black = "D"  
(from Reel Assembly Ordering Guide – opposite)


**Order Part Number:** **XDM65D**



## XD MODELS (WITH ADJUSTABLE ARM)


### REEL ASSEMBLIES

Assembly includes hose, ball stop kit and roller guide. **Required hose inlet kit sold separately.**

|                                                                                     | Reel Size | Fluid                                        | Hose (Included) |               | Connection Size |            | Maximum Pressure psi (bar) | Assembly Part Number | Recommended Hose Inlet Kit |
|-------------------------------------------------------------------------------------|-----------|----------------------------------------------|-----------------|---------------|-----------------|------------|----------------------------|----------------------|----------------------------|
|                                                                                     |           |                                              | ID in (mm)      | Length ft (m) | Inlet           | Outlet     |                            |                      |                            |
|  | XDX 20    | Air/Water/Antifreeze/Windshield Washer Fluid | 3/8 (10)        | 65 (20)       | 1/2 NPSM(M)     | 3/8 NPT(M) | 300 (20.7)                 | XDL56#               | 218549                     |
|                                                                                     |           |                                              | 1/2 (13)        | 50 (15)       | 1/2 NPSM(M)     | 1/2 NPT(M) | 300 (20.7)                 | XDL65#               |                            |
|                                                                                     |           | Oil                                          | 1/2 (13)        | 50 (15)       | 1/2 NPSM(M)     | 1/2 NPT(M) | 2,000 (138)                | XDM65#               |                            |
|                                                                                     |           | Grease                                       | 3/8 (10)        | 50 (15)       | 3/8 NPSM(M)     | 1/4 NPT(M) | 4,800 (331)                | XDH55#               |                            |

### BARE REELS

**Required hose inlet kit sold separately.** Fluid hose not included.

|                                                                                     | Reel Size | Fluid                                        | Hose (Not Included) |               | Connection Size |             | Maximum Pressure psi (bar) | Part Number | Recommended Hose Inlet Kit |
|-------------------------------------------------------------------------------------|-----------|----------------------------------------------|---------------------|---------------|-----------------|-------------|----------------------------|-------------|----------------------------|
|                                                                                     |           |                                              | ID in (mm)          | Length ft (m) | Inlet           | Outlet      |                            |             |                            |
|  | XDX 20    | Air/Water/Antifreeze/Windshield Washer Fluid | 1/2 (13)            | 50 (15)       | 1/2 NPSM(M)     | 1/2 NPSM(F) | 300 (20.7)                 | XDL6D#      | 218549                     |
|                                                                                     |           | Oil                                          | 1/2 (13)            | 50 (15)       | 1/2 NPSM(M)     | 1/2 NPSM(F) | 2,000 (138)                | XDM6D#      |                            |
|                                                                                     |           | Grease                                       | 3/8 (10)            | 50 (15)       | 3/8 NPSM(M)     | 3/8 NPSM(F) | 8,000 (552)                | XDH5D#      | 218550                     |




## ORDERING OPTIONS

### ACCESSORIES

#### BALL STOP KITS

XDX HS models include ball stop kits. Order separately if ordering a bare reel or if needed with HN models.

|  | Part Number | Description                                                                                           |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------|
|                                                                                   | 222225      | For 1/4 in (6 mm) ID hose (not compatible with XD 30, 700 or 750)                                     |
|                                                                                   | 218340      | For 1/4 in to 3/8 in (6 mm to 10 mm) ID hose (not for use with XD 30, 700 or 750)                     |
|                                                                                   | 218341      | 0.782 in ID used for 3/8 in and 1/2 in (10 mm and 13 mm) hose (not compatible with XD 30, 700 or 750) |
|                                                                                   | 237872      | 1.0 in ID used for 5/8 in (16 mm) hose                                                                |
|                                                                                   | 237873      | 1.123 in ID used for 3/4 in (19 mm) hose                                                              |
|                                                                                   | 237874      | 1.374 in ID used for 1 in (25 mm) hose                                                                |
|                                                                                   | 24D132      | For 3/8 in (10 mm) ID hose                                                                            |
|                                                                                   | 24D133      | For 1/2 in (13 mm) ID hose                                                                            |




#### HOSE INLET KITS

A hose inlet kit is required when ordering an XDX reel.

|  | Maximum Working Pressure psi (bar) | Size in (mm) | Length ft (m) | Part Number |
|-------------------------------------------------------------------------------------|------------------------------------|--------------|---------------|-------------|
|                                                                                     | 2,000 (137)                        | 1/2 (13)     | 2 (0.6)       | 218549      |
|                                                                                     | 4,000 (276)                        | 3/8 (10)     |               | 218550      |
|                                                                                     | 5,000 (345)                        | 1/4 (6)      |               | 224417      |

#### MOUNTING CHANNELS

Accommodates up to six reels. Includes all parts necessary to mount on wall or overhead.

|  | Description                    | 1 Reel       | 2 Reels | 3 Reels | 4 Reels      | 5 Reels | 6 Reels |
|-------------------------------------------------------------------------------------|--------------------------------|--------------|---------|---------|--------------|---------|---------|
|                                                                                     | Enclosed Reel Mounting Channel | 24N323       | 24N324  | 24N325  | 24N326       | 24N327  | 24N328  |
|  | Description                    | 1 Reel       | 2 Reels | 3 Reels | 4 Reels      | 5 Reels | 6 Reels |
|                                                                                     | Open Reel Mounting Channel     | 24A219       | 24A220  | 24A221  | 24A222       | 24A222  | 24A222  |
|  | Description                    |              |         |         |              |         |         |
|                                                                                     | I-Beam Mounting Bracket*       | 204741 (x 2) |         |         | 204741 (x 3) |         |         |

\*Secures mounting channel to I-beam without drilling – 2 are required for 1-3 reels, and 3 are required for 4-6 reels.


# XDX SERIES HOSE REEL ACCESSORIES

20


## ORDERING OPTIONS

### ENCLOSURE KITS FOR ONE REEL


Open mounting accommodates up to six reels. Includes all parts necessary to mount on wall or overhead. Requires Enclosed Reel Mounting Channel.

|  | Reel Size | White  | Metallic Blue | Red    | Black  | Yellow | Required End-Caps (set of 2) |
|-----------------------------------------------------------------------------------|-----------|--------|---------------|--------|--------|--------|------------------------------|
|                                                                                   | XDX 10    | –      | 24N332        | –      | 24N334 | 24N336 | 24A950                       |
|                                                                                   | XDX 20    | 24N337 | 24N339        | 24N340 | 24N341 | 24N343 | 24A951                       |


### RETROFIT ADAPTER KIT

|  | Part Number | Description                                                                                     |
|-----------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------|
|                                                                                   | 24A224      | Includes all parts to mount hose reel to existing 500 series mounting pattern without enclosure |
|                                                                                   | 24P914      | Includes all parts to convert XDX 20 hose reels to fit existing 500 series enclosures           |

### VALVE HANGER KIT

|  | Part Number | Description                                                                            |
|------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------|
|                                                                                    | 224444      | Mounts to side of reel to allow hanging of non-metered and high-flow dispensing valves |

### SELF-ADHESIVE IDENTIFICATION LABEL SET

|  | Part Number | Description                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | 180698      | Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Antifreeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF |

HOSE AND CORD REELS

# XD SERIES HOSE REELS

30 / 30 HN



## HIGH CAPACITY REEL

Used in applications requiring longer-range dispense and higher capacity than the standard XDX 20 series. Ideal for use on mobile service trucks, heavy construction and industrial plants.



### Optional Adjustable Arm

- Easily change to one of seven arm positions to fit your application.
- Order with arm (HS models) or without (HN models).

### Full-Flow Swivel

Maximize material flow with minimal pressure drop for faster fills to get more vehicles through your shop.

### Spring Adjustment

Increase or decrease spring tension while reel is pressurized with fluid.

### Large Hose Capacity with Small Profile

Compact pedestal and spool fits into tight spaces and can accommodate 30-75 foot (9.1-22.8 meters) hose capacity for a wide variety of applications.

### Durable Finish

Baked-on enamel finish (four colors available) protects reel from corrosion.

## TYPICAL APPLICATIONS

- Heavy-duty truck dealers
- Fleet maintenance
- Mining maintenance
- Public works garage
- Construction vehicle maintenance
- Heavy-duty mobile service trucks
- Mining
- Lube trucks

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Diesel fuel
- Air
- Water
- Grease
- Antifreeze
- Windshield washer fluid
- Pressure wash
- Waste oil evacuation
- Diesel exhaust fluid (DEF)

## TECHNICAL SPECIFICATIONS

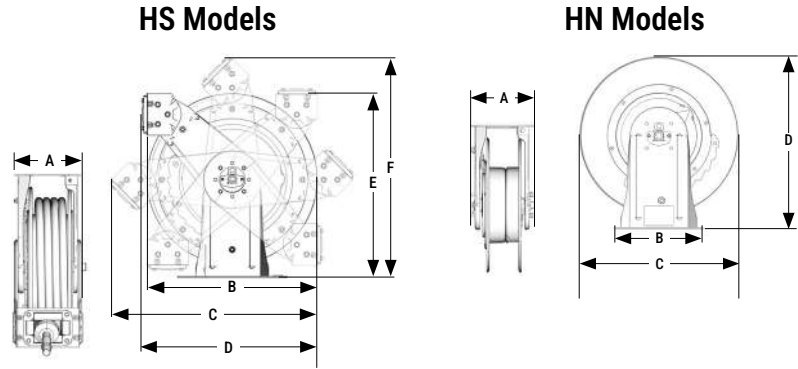
|                                              |                                                                  |
|----------------------------------------------|------------------------------------------------------------------|
| Operating Temperature Range                  |                                                                  |
| Air/Water/Antifreeze/Windshield Washer Fluid | -40°F to 180°F (-40°C to 82°C)                                   |
| Oil                                          | -40°F to 180°F (-40°C to 82°C)                                   |
| Grease                                       | -40°F to 180°F (-40°C to 82°C)                                   |
| Pressure Wash                                | -20°F to 225°F (-28°C to 107°C)                                  |
| Fuel/Evacuation                              | -40°F to 120°F (-40°C to 49°C)                                   |
| Diesel Exhaust Fluid (DEF)                   | 12°F to 140°F (-11°C to 60°C)                                    |
| Wetted Parts (Bare Reel Only)                |                                                                  |
| Air/Water/Antifreeze/Windshield Washer Fluid | Nickel plated carbon steel, aluminum, Buna-N rubber, UHMWPE      |
| Oil                                          | Nickel plated carbon steel, aluminum, Buna-N rubber, UHMWPE      |
| Grease                                       | Nickel plated stainless steel, Buna-N rubber, UHMWPE             |
| Pressure Wash                                | Nickel plated stainless steel, Buna-N rubber, UHMWPE             |
| Fuel/Evacuation                              | Nickel plated carbon steel, aluminum, Buna-N rubber, UHMWPE      |
| Diesel Exhaust Fluid (DEF)                   | Zinc plated steel, polyurethane, steel                           |
| Weight (Without Hose)                        | 98 lb (44.5 kg)                                                  |
| Sound Pressure Level                         | 85.8 dB(A)                                                       |
| Sound Power Level                            | 94.9 dB(A)                                                       |
| Instruction Manual                           | 3A0138                                                           |
| Wetted Parts                                 | Carbon steel, nickel plated cast iron, Buna-N rubber, FKM UHMWPE |
| Maximum Recommended Mounting Height          | 15 ft (4.6 m)                                                    |
| Sound Pressure Level                         | 77.6 dB(A)                                                       |
| Sound Power Level                            | 86.8 dB(A)                                                       |

# XD SERIES HOSE REELS

30 / 30 HN

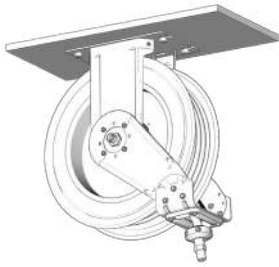
## DIMENSIONS

|   | HS Models<br>(with Adjustable Arm) | HN Models<br>(without Arm) |
|---|------------------------------------|----------------------------|
| A | 9.0 in (229 mm)                    | 7.5 in (196 mm)            |
| B | 21.5 in (546 mm)                   | 18.1 in (460 mm)           |
| C | 26.0 in (659 mm)                   | 23.4 in (594 mm)           |
| D | 22.1 in (562 mm)                   | 20.0 in (508 mm)           |
| E | 23.1 in (588 mm)                   | 21.0 in (533 mm)           |
| F | 27.6 in (701 mm)                   | 25.2 in (640 mm)           |

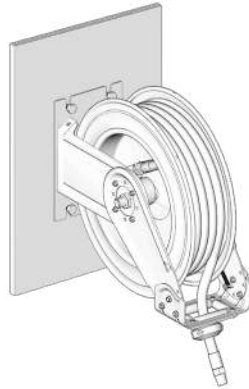


## TYPICAL MOUNTING CONFIGURATIONS

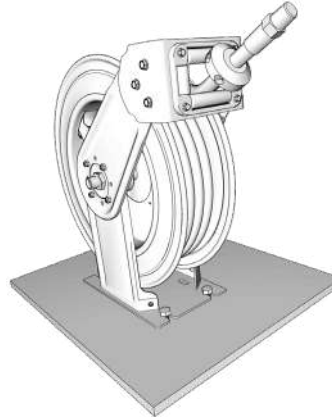
Overhead Mount



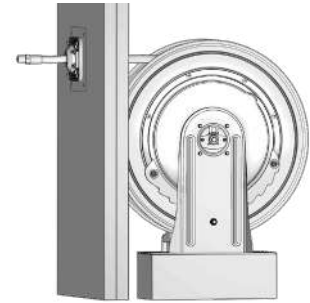
Wall Mount



Bench/  
Truck Mount



Truck Mount with Remote  
Mounted Roller Guide



Metallic Blue (B)  
Standard In-Stock Color



Available in  
**3 COLORS**  
Consult factory for lead times

Yellow (F)



Black (D)





## ORDERING OPTIONS

### XD 30 Reel Assembly Ordering Guide

XD Series reels are available in three colors. Use the chart below to determine the correct part number to order. The last character of each part number indicates the hose reel color.

| Reel Color    | Identifier |
|---------------|------------|
| Metallic Blue | B          |
| Yellow        | F          |
| Black*        | D          |

\*Black not available in HN models

#### ORDER EXAMPLE:

Arm in overhead mount position, XD 30, oil, 3/4 in ID hose, 50 ft hose length

**1** Select your reel position: HSMD5#

**2** Select your reel color: Metallic Blue = "B"  
(from Reel Assembly Ordering Guide – opposite)


Order Part Number: **HSMD5B**



### HS MODELS (WITH ADJUSTABLE ARM)


#### REEL ASSEMBLIES

Assembly includes hose, ball stop kit and roller guide. **Required hose inlet kit sold separately.**

|                                                                                     | Fluid                                        | Hose (Included) |               | Connection Size |              | Maximum Pressure psi (bar) | Reel, Hose and Ball Stop Assembly Part Number | Recommended Hose Inlet Kit |
|-------------------------------------------------------------------------------------|----------------------------------------------|-----------------|---------------|-----------------|--------------|----------------------------|-----------------------------------------------|----------------------------|
|                                                                                     |                                              | ID in (mm)      | Length ft (m) | Inlet           | Outlet       |                            |                                               |                            |
|  | Air/Water/Antifreeze/Windshield Washer Fluid | 1/2 (13)        | 75 (23)       | 1/2 NPSM(M)     | 1/2 NPT(M)   | 300 (20.7)                 | HSLC8#                                        | 218549                     |
|                                                                                     |                                              | 3/4 (19)        | 50 (15)       | 3/4 NPSM(M)     | 3/4 NPT(M)   | 300 (20.7)                 | HSLD5#                                        | 24E284                     |
|                                                                                     | Oil                                          | 1/2 (13)        | 75 (23)       | 1/2 NPSM(M)     | 1/2 NPT(M)   | 1,500 (103)                | HSMC8#                                        | 218549                     |
|                                                                                     |                                              | 3/4 (19)        | 50 (15)       | 3/4 NPSM(M)     | 3/4 NPT(M)   | 1,250 (86)                 | HSMD5#                                        | 24E284                     |
|                                                                                     | Grease                                       | 1/2 (13)        | 50 (15)       | 1/2 NPSM(M)     | 1/2 NPT(M)   | 5,000 (345)                | HSHC5#                                        | 24E283                     |
|                                                                                     |                                              | 3/8 (10)        | 75 (23)       | 1/2 NPSM(M)     | 3/8 NPT(F)   | 5,000 (345)                | HSHB7#                                        | 24E283                     |
|                                                                                     | Pressure Wash                                | 3/8 (10)        | 75 (23)       | 1/2 NPSM(M)     | 3/8 NPT(M)   | 4,000 (276)                | HSPB8#                                        | 24E283                     |
|                                                                                     | DEF                                          | 3/4 (19)        | 50 (15)       | 3/4 BSPP(M)     | 3/4 BSPP ORB | 50 (3.4)                   | HSDD5#                                        | 24W250 (BSPP)              |

#### BARE REELS

**Required hose inlet kit sold separately.**

|                                                                                     | Fluid               | Hose (Not Included) |               | Connection Size |                | Maximum Pressure psi (bar) | Part Number | Recommended Hose Inlet Kit |
|-------------------------------------------------------------------------------------|---------------------|---------------------|---------------|-----------------|----------------|----------------------------|-------------|----------------------------|
|                                                                                     |                     | ID in (mm)          | Length ft (m) | Inlet in (mm)   | Outlet in (mm) |                            |             |                            |
|  | Oil                 | 1/2 (13)            | 75 (23)       | 1/2 (13) (m)    | 1/2 (13) (m)   | 2,000 (138)                | HSMCF#      | 218549                     |
|                                                                                     |                     | 3/4 (19)            | 50 (15)       | 3/4 (19) (m)    | 3/4 (19) (m)   | 2,000 (138)                | HSMDD#      | 24E284                     |
|                                                                                     | Grease              | 1/2 (13)            | 50 (15)       | 1/2 (13) (m)    | 1/2 (13) (m)   | 5,000 (345)                | HSHCD#      | 24E283                     |
|                                                                                     | Pressure Wash       | 3/8 (10)            | 75 (23)       | 1/2 (13) (m)    | 3/8 (10) (m)   | 4,000 (276)                | HSHFF#      | 24E283                     |
|                                                                                     | DEF                 | 3/4 (19)            | 50 (15)       | 3/4 (19) (m)    | 3/4 (19) ORB   | 50 (3.4)                   | HSDDD#      | 24W250 (BSPP)              |
|                                                                                     | Fuel/Oil Evacuation | 1 (13)              | 30 (9)        | 3/4 (19) (m)    | 1 (13) (m)     | 125 (8.6)                  | HSLEE#      | 24E285                     |

# XD SERIES HOSE REELS


30 / 30 HN

## ORDERING OPTIONS

### HN MODELS (WITHOUT ADJUSTABLE ARM)

#### REELS WITH HOSE


Required hose inlet kit sold separately.



| Fluid                                            | Hose (Included) |               | Connection Size |            | Maximum Pressure psi (bar) | Reel and Hose Assembly Part Number | Recommended Hose Inlet Kit |
|--------------------------------------------------|-----------------|---------------|-----------------|------------|----------------------------|------------------------------------|----------------------------|
|                                                  | ID in (mm)      | Length ft (m) | Inlet           | Outlet     |                            |                                    |                            |
| Air/Water/Antifreeze/<br>Windshield Washer Fluid | 1/2 (13)        | 75 (23)       | 1/2 NPSM(M)     | 1/2 NPT(M) | 300 (20.7)                 | HNLC8#                             | 218549                     |
|                                                  | 3/4 (19)        | 50 (15)       | 3/4 NPSM(M)     | 3/4 NPT(M) | 300 (20.7)                 | HNLD5#                             | 24E284                     |
| Oil                                              | 1/2 (13)        | 75 (23)       | 1/2 NPSM(M)     | 1/2 NPT(M) | 1,500 (103)                | HNMC8#                             | 218549                     |
|                                                  | 3/4 (19)        | 50 (15)       | 3/4 NPSM(M)     | 3/4 NPT(M) | 1,250 (86)                 | HNMD5#                             | 24E284                     |
| Grease                                           | 3/8 (10)        | 75 (23)       | 1/2 NPSM(M)     | 3/8 NPT(F) | 5,000 (345)                | HNHB7#                             | 24E283                     |
| Pressure Wash                                    | 3/8 (10)        | 75 (23)       | 1/2 NPSM(M)     | 3/8 NPT(M) | 4,000 (276)                | HNPB8#                             | 24E283                     |
|                                                  | 1/2 (13)        | 50 (15)       | 1/2 NPSM(M)     | 1/2 NPT(M) | 4,500 (310)                | HNPC5#                             | 24E283                     |

#### BARE REELS


Required hose inlet kit sold separately.



| Fluid         | Hose (Not Included) |               | Connection Size |                | Maximum Pressure psi (bar) | Part Number | Recommended Hose Inlet Kit |
|---------------|---------------------|---------------|-----------------|----------------|----------------------------|-------------|----------------------------|
|               | ID in (mm)          | Length ft (m) | Inlet in (mm)   | Outlet in (mm) |                            |             |                            |
| Oil           | 3/4 (19)            | 50 (15)       | 3/4 (19) (m)    | 3/4 (19) (m)   | 2,000 (138)                | HNMD5#      | 24E284                     |
| Grease        | 1/2 (13)            | 50 (15)       | 1/2 (13) (m)    | 1/2 (13) (m)   | 5,000 (345)                | HNHCD#      | 24E283                     |
| Pressure Wash | 3/8 (10)            | 75 (23)       | 1/2 (13) (m)    | 3/8 (10) (m)   | 4,000 (276)                | HNHFF#      | 24E283                     |

#### BALL STOP KITS

XD HS models include ball stop kits. Order separately if ordering a bare reel or if needed with HN models.



| Part Number | Description                                                                                           |
|-------------|-------------------------------------------------------------------------------------------------------|
| 222225      | For 1/4 in (6 mm) ID hose (not compatible with XD 30, 700 or 750)                                     |
| 218340      | For 1/4-3/8 in (6-10 mm) ID hose (not for use with XD 30, 700 or 750)                                 |
| 218341      | 0.782 in ID used for 3/8 in and 1/2 in (10 mm and 13 mm) hose (not compatible with XD 30, 700 or 750) |
| 237872      | 1.0 in ID used for 5/8 in (16 mm) hose                                                                |
| 237873      | 1.123 in ID used for 3/4 in (19 mm) hose                                                              |
| 237874      | 1.374 in ID used for 1 in (25 mm) hose                                                                |
| 24D132      | For 3/8 in (10 mm) ID hose                                                                            |
| 24D133      | For 1/2 in (13 mm) ID hose                                                                            |

# XD SERIES HOSE REEL ACCESSORIES


30 / 30 HN




## ORDERING OPTIONS

### HOSE INLET KITS


A hose inlet kit is required when ordering an XD reel.

|  | Part Number                                          | Description                                                                                                                   |
|-----------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|                                                                                   | 218549                                               | 1/2 in (13 mm) hose inlet kit for air/water and oil. 2,000 psi (137 bar), 1/2 in NPT hose inlet ID, 24 in (610 mm) long       |
|                                                                                   | 24E284                                               | 3/4 in (19 mm) hose inlet kit for air/water and oil. 1,250 psi (86 bar), 3/4 in NPT hose inlet ID, 24 in (610 mm) long        |
|                                                                                   | 24E283                                               | 1/2 in (13 mm) hose inlet kit for grease or pressure wash. 5,000 psi (345 bar), 1/2 in NPT hose inlet ID, 24 in (610 mm) long |
|                                                                                   | 24E285                                               | 1/2 in (13 mm) hose inlet kit for fuel. 125 psi (8.6 bar), 1/4 in NPT hose inlet ID, 24 in (610 mm) long                      |
|                                                                                   | 24W250                                               | 2 ft DEF inlet hose kit for XD 30 reels. 3/4 in BSPP(F) x cut end and 90° elbow                                               |
|                                                                                   | 24W251                                               | 6 ft DEF inlet hose kit for XD 30 reels. 3/4 in BSPP(F) x cut end and 90° elbow                                               |
|                                                                                   | 124875                                               | 2 ft DEF hose, 3/4 in BSPP(M) x cut end (inlet hose)                                                                          |
| 124581                                                                            | 6 ft DEF hose, 3/4 in BSPP(M) x cut end (inlet hose) |                                                                                                                               |

### VALVE HANGER KIT

|  | Part Number | Description                                                                            |
|------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------|
|                                                                                    | 224444      | Mounts to side of reel to allow hanging of non-metered and high-flow dispensing valves |

### SELF-ADHESIVE IDENTIFICATION LABEL SET

|  | Part Number | Description                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | 180698      | Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Antifreeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF |

# XD SERIES HOSE REELS

40 / 50

## BUILT-IN TOUGHNESS

Engineered to take a beating and still reliably perform in harsh environments so it's ready when you need it. Choose from more colors, thread types and hoses or choose the bare reel so you can customize it with your hose. You get a professional look, easier fit and better-performing equipment.



### Extensive Hose Offering

Standard models come complete with factory-installed hoses on the reel. Large selection of optional reels to fit various applications.

### Full-Flow Swivel

Maximize material flow with minimal pressure drop for faster fills to get more vehicles through your shop.

### Rugged and Durable Body

Heavy-duty welded spool and ribbed frame for extra strength and toughness over the long haul.

### Meets Worldwide Needs

- Built standard with 90° elbow with NPT, BSPP or BSPT threads.
- 1-1/2 in models also include 2 in Victaulic™-style groove.
- Accessories attach without the need for adapters.

## TYPICAL APPLICATIONS

- Heavy-duty truck dealers
- Fleet maintenance
- Mining maintenance
- Public works garages
- Construction vehicle maintenance
- Heavy-duty mobile service trucks
- Agriculture
- Lube trucks

## TYPICAL FLUIDS

- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Diesel fuel
- Air
- Water
- Antifreeze
- Waste oil evacuation

## TECHNICAL SPECIFICATIONS

| Operating Temperature Range         |                                                                  |
|-------------------------------------|------------------------------------------------------------------|
| Oil Reels – 1 inch                  | -20°F to 180°F (-28°C to 82°C)                                   |
| All Other Reels                     | -40°F to 180°F (-40°C to 82°C)                                   |
| Wetted Parts                        | Carbon steel, nickel plated cast iron, Buna-N rubber, FKM UHMWPE |
| Maximum Recommended Mounting Height | 15 ft (4.6 m)                                                    |
| Sound Pressure Level                | 77.6 dB(A)                                                       |
| Sound Power Level                   | 86.8 dB(A)                                                       |

\*Victaulic is a trademark of Victaulic Company of America.



# XD 40 AND XD 50 HOSE REELS

## HOW TO SELECT AN XD 40/50 HOSE REEL

### 2 WAYS TO ORDER!

#### OPTION 1 – REEL WITH HOSE

(Pages 239-240)

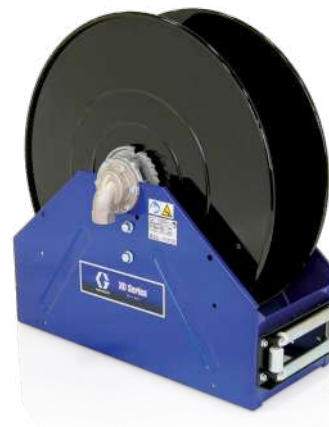
All models include the hose, hose guide and ball stop kit.



#### OPTION 2 – BARE REEL

(Pages 239-240)

Bare reel models do not include hose and ball stop kit.



HOSE AND CORD REELS

### CHOOSE YOUR ACCESSORIES (PAGES 241)



#### HOSE INLET KIT

**A hose inlet is required for installation.** They are appropriately sized for the hose reels based on type of fluid, hose size and pressure.



#### SUPPORT ARM

For additional support, add arm brackets to the reel. Required for overhead mounting applications.



#### MOUNTING KIT

Overhead mounting options available for XD 40 reels.



#### HOSE KIT

Large selection of hoses appropriately sized for the hose reels based on type of fluid, hose size and pressure.



#### HOSE INLET KIT

**A hose inlet is required for installation.** They are appropriately sized for the hose reels based on type of fluid, hose size and pressure.



#### BALL STOP KIT

When the ball stop comes in contact with the hose guide, the hose is prohibited from rewinding.



#### SUPPORT ARM

For additional support, add arm brackets to the reel. Required for overhead mounting applications.

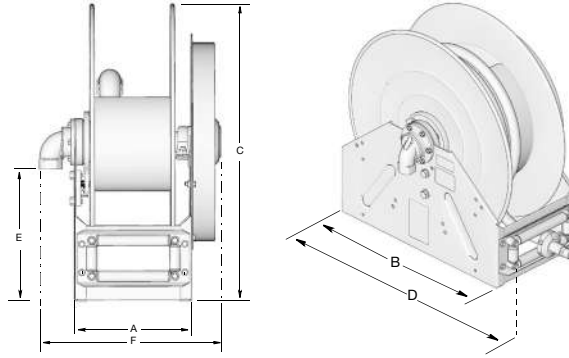


#### MOUNTING KIT

Overhead mounting options available for XD 40 reels.

# XD SERIES HOSE REELS

40 / 50



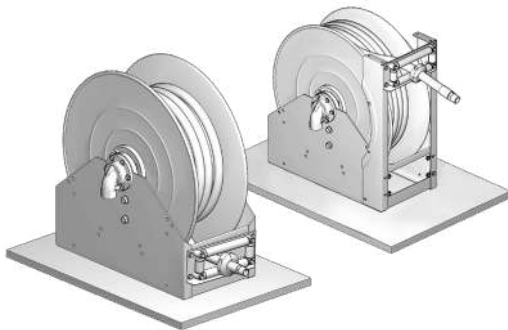
## DIMENSIONS

| Model                | Inlet/Outlet Size<br>NPT(F) | Dimensions in (mm)* |            |             |            |             |             |
|----------------------|-----------------------------|---------------------|------------|-------------|------------|-------------|-------------|
|                      |                             | A                   | B          | C           | D          | E           | F           |
| XD 4010 – Spring C/D | 1 in/1 in                   | 11.83 (300)         | 24 (610)   | 26.13 (664) | 26.4 (671) | 10.91 (277) | 16.54 (420) |
| XD 4010 – Spring A/B | 1 in/1 in                   | 11.83 (300)         | 24 (610)   | 26.13 (664) | 26.4 (671) | 10.91 (277) | 17.47 (444) |
| XD 5010              | 1 in/1 in                   | 11.83 (300)         | 28.5 (724) | 30.13 (765) | 29.4 (747) | 10.91 (277) | 17.4 (444)  |
| XD 5015              | 1-1/2 in/1-1/2 in           | 11.83 (300)         | 28.5 (724) | 30.13 (765) | 29.4 (747) | 10.91 (277) | 18.24 (463) |

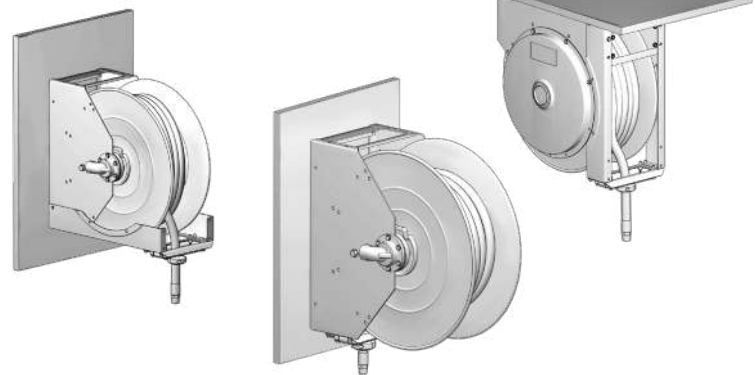
\*For complete list of dimensions, see Graco product manual 3A2990.

## TYPICAL MOUNTING CONFIGURATIONS

### Truck-Bed or Bench Mount



### Overhead Mount (XD 40 only)



Available in  
**2 COLORS**  
Consult factory for lead times

Standard In-Stock Color:  
Metallic Blue







## ORDERING OPTIONS

### XD 40 REELS WITH HOSE

Includes hose, ball stop kit and hose guide. **Required hose inlet kit sold separately.**

| Reel Size                                                                         | Fluid                | Hose       |               | Connection Size |               | Maximum Pressure psi (bar) | Spring | Truck/Bench Mount Only | Part Number by Reel Color |        | Hose Inlet Kit (Order Separately) |        |
|-----------------------------------------------------------------------------------|----------------------|------------|---------------|-----------------|---------------|----------------------------|--------|------------------------|---------------------------|--------|-----------------------------------|--------|
|                                                                                   |                      | ID in (mm) | Length ft (m) | Inlet NPT(F)    | Outlet NPT(M) |                            |        |                        | Metallic Blue             | Yellow |                                   |        |
|  | Air/Water            | 1/2 (13)   | 100 (30)      | 1               | 1/2           | 300 (21)                   | D      |                        | 24P327                    | 24P328 | 24R111                            |        |
|                                                                                   |                      | 3/4 (19)   | 75 (23)       | 1               | 3/4           | 300 (21)                   | D      |                        | 24P330                    | 24P331 |                                   |        |
|                                                                                   |                      | 1 (25)     | 50 (15)       | 1               | 1             | 300 (21)                   | D      |                        | 24P336                    | 24P337 |                                   |        |
|                                                                                   | Oil                  | 1/2 (13)   | 100 (30)      | 1               | 1/2           | 2,000 (138)                | A      |                        | 24P339                    | 24P340 |                                   |        |
|                                                                                   |                      | 3/4 (19)   | 75 (23)       | 1               | 3/4           | 1,500 (103)                | C      | •                      | 24P342                    | 24P343 |                                   |        |
|                                                                                   |                      | 3/4 (19)   | 75 (23)       | 1               | 3/4           | 1,500 (103)                | B      |                        | 24R857                    | 24R859 |                                   |        |
|                                                                                   |                      | 3/4 (19)   | 100 (30)      | 1               | 3/4           | 1,500 (103)                | A      |                        | 24P345                    | 24P346 |                                   |        |
|                                                                                   | 1 (25)               | 50 (15)    | 1             | 1               | 1,275 (88)    | C                          | •      | 24P348                 | 24P349                    |        |                                   |        |
|                                                                                   | Waste Oil Evacuation | 1 (25)     | 50 (15)       | 1               | 1             | 250 (17)                   | C      |                        | 24P351                    | 24P352 |                                   | 24R112 |
|                                                                                   | Diesel Fuel          | 1 (25)     | 50 (15)       | 1               | 1             | 250 (17)                   | C      |                        | 24P354                    | 24P355 |                                   | 24R115 |

### XD 40 BARE REELS

| Reel Size                                                                           | Fluid                | Hose Length Capacity (in x ft (m)) |          |         | Connection Size |               | Maximum Pressure psi (bar) | Spring | Truck/Bench Mount Only | Part Number by Reel Color |        | Hose Inlet Kit (order separately) |
|-------------------------------------------------------------------------------------|----------------------|------------------------------------|----------|---------|-----------------|---------------|----------------------------|--------|------------------------|---------------------------|--------|-----------------------------------|
|                                                                                     |                      | 1/2                                | 3/4      | 1       | Inlet NPT(F)    | Outlet NPT(F) |                            |        |                        | Metallic Blue             | Yellow |                                   |
|  | Air/Water            | -                                  | 100 (30) | -       | 1               | 1             | 600 (41)                   | C      |                        | 24P317                    | 24P318 | 24R111                            |
|                                                                                     | Oil                  | -                                  | 75 (23)  | 50 (15) | 1               | 1             | 2,000 (138)                | C      | •                      | 24P320                    | 24P322 |                                   |
|                                                                                     |                      | -                                  | 75 (23)  | 50 (15) | 1               | 1             | 2,000 (138)                | B      |                        | 24R854                    | 24R855 |                                   |
|                                                                                     | Waste Oil Evacuation | -                                  | -        | 75 (23) | 1               | 1             | 600 (41)                   | C      |                        | 24P317                    | 24P318 | 24R112                            |
|                                                                                     | Diesel Fuel          | -                                  | -        | 50 (15) | 1               | 1             | 600 (41)                   | C      |                        | 24P317                    | 24P318 | 24R115                            |

## REMEMBER TO ORDER!

|                                                                                     |                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |
| <b>Ball Stop Kit</b><br>See page 241                                                | <b>Support Arm</b><br>See page 241                                                  | <b>Hose</b><br>See page 249-250                                                     | <b>Hose Inlet</b><br>See page 241                                                     |


# XD SERIES HOSE REELS

40 / 50

## ORDERING OPTIONS

### XD 50 REELS WITH HOSE

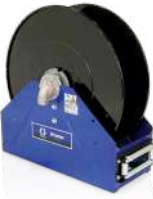
Includes hose, ball stop kit and hose guide. **Required hose inlet kit sold separately.**



| Reel Size | Fluid                | Hose       |               | Connection Size |               | Maximum Pressure psi (bar) | Part Number by Reel Color |        | Hose Inlet Kit (order separately) |
|-----------|----------------------|------------|---------------|-----------------|---------------|----------------------------|---------------------------|--------|-----------------------------------|
|           |                      | ID in (mm) | Length ft (m) | Inlet NPT(F)    | Outlet NPT(M) |                            | Metallic Blue             | Yellow |                                   |
| XD 5010   | Air/Water            | 1 (25)     | 100 (30)      | 1               | 1             | 300 (21)                   | 24P473                    | 24P474 | 24R111                            |
|           | Oil                  | 1 (25)     | 75 (23)       | 1               | 1             | 1,275 (88)                 | 24P476                    | 24P477 |                                   |
|           | Diesel Fuel          | 1 (25)     | 100 (30)      | 1               | 1             | 250 (17)                   | 24P488                    | 24P489 | 24R115                            |
| XD 5015** | Waste Oil Evacuation | 1-1/4 (32) | 50 (15)       | 1-1/2           | 1-1/4         | 200 (14)                   | 24P482                    | 24P483 | -                                 |
|           | Diesel Fuel          | 1-1/2 (38) | 50 (15)       | 1-1/2           | 1-1/2         | 150 (10)                   | 24P497                    | 24P498 | 24R117                            |

\*\*Standard 2 inch Vitalic"-style groove on inlet.

### XD 50 BARE REELS



| Reel Size | Fluid       | Hose Length Capacity (in x ft (m)) |         |         | Connection Size |               | Maximum Pressure psi (bar) | Part Number by Reel Color |        | Hose Inlet Kit (order separately) |
|-----------|-------------|------------------------------------|---------|---------|-----------------|---------------|----------------------------|---------------------------|--------|-----------------------------------|
|           |             | 1                                  | 1-1/4   | 1-1/2   | Inlet NPT(F)    | Outlet NPT(F) |                            | Metallic Blue             | Yellow |                                   |
| XD 5010   | Air/Water   | 100 (30)                           | -       | -       | 1               | 1             | 600 (41)                   | 24P455                    | 24P456 | 24R111                            |
|           | Oil         | 75 (23)                            | -       | -       | 1               | 1             | 2,000 (138)                | 24P458                    | 24P459 |                                   |
|           | Diesel Fuel | 100 (30)                           | -       | -       | 1               | 1             | 600 (41)                   | 24P455                    | 24P456 | 24R115                            |
| XD 5015** | Diesel Fuel | -                                  | 50 (15) | -       | 1-1/2           | 1-1/2         | 600 (41)                   | 24P461                    | 24P462 | 24R117                            |
|           |             | -                                  | 50 (15) | 50 (15) | 1-1/2           | 1-1/2         | 600 (41)                   | 24P467                    | 24P468 |                                   |

\*\*Standard 2 inch Vitalic"-style groove on inlet.

## REMEMBER TO ORDER!

|                                                                                                                                  |                                                                                                                                |                                                                                                                             |                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>Ball Stop Kit</b><br/>See page 241</p> |  <p><b>Support Arm</b><br/>See page 241</p> |  <p><b>Hose</b><br/>See page 249-250</p> |  <p><b>Hose Inlet</b><br/>See page 241</p> |
|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|

Vitalic is a trademark of Vitalic Company of America.


# XD SERIES HOSE REEL ACCESSORIES




40 / 50

## ORDERING OPTIONS


### BALL STOP KITS

|  | Part Number | Description                                    |
|-----------------------------------------------------------------------------------|-------------|------------------------------------------------|
|                                                                                   | 237873      | Ball stop kit used for 3/4 in (19 mm) hose     |
|                                                                                   | 237874      | Ball stop kit used for 1 in (25 mm) hose       |
|                                                                                   | 24R060      | Ball stop kit used for a 1-1/4 in (32 mm) hose |
|                                                                                   | 24R061      | Ball stop kit used for a 1-1/2 in (38 mm) hose |


### HOSE GUIDES

|  | Part Number | Description                                       |
|-----------------------------------------------------------------------------------|-------------|---------------------------------------------------|
|                                                                                   | 24R072      | Roller guide kit with bracket for XD 40 and XD 60 |
|                                                                                   | 24R074      | Roller guide kit with bracket for XD 50           |


### SUPPORT ARM KITS

|  | Part Number | Description               |
|------------------------------------------------------------------------------------|-------------|---------------------------|
|                                                                                    | 24R076      | Support arm kit for XD 40 |
|                                                                                    | 24R077      | Support arm kit for XD 50 |


### MOUNTING KIT

|  | Part Number | Description                                                                                        |
|-------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------|
|                                                                                     | 237932      | Overhead or wall mounting kit for XD 40. Includes all parts needed for overhead mounting one reel. |

### HOSE INLET KITS

|  | Part Number | Description                                                                                                         |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------|
|                                                                                     | 24R111      | 1 in (25 mm) hose inlet kit for air/water and oil. 1,275 psi (88 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long  |
|                                                                                     | 24R112      | 1 in (25 mm) hose inlet kit for waste oil evacuation. 250 psi (17 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long |
|                                                                                     | 24R115      | 1 in (25 mm) hose inlet kit for diesel fuel. 250 psi (17 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long          |
|                                                                                     | 24R117      | 1-1/2 in (38 mm) hose inlet kit for diesel fuel. 150 psi (10 bar), 1.5 in NPT hose inlet ID, 28 in (710 mm) long    |

### SELF-ADHESIVE IDENTIFICATION LABEL SET

|  | Part Number | Description                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | 180698      | Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Antifreeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF |

HOSE AND CORD REELS

# XD SERIES POWERED BARE HOSE REELS

60 / 70 / 80

## SAFE, VERSATILE POWERED HOSE REELS

We like to think of the XD motor rewind reels as super-powered. The innovative design is packed with features to help you work safer, smarter and faster. We demand extensive product testing, often exceeding industry standards to ensure you get the best product on the market.

### Heavy-duty Welded Spool

Built to handle the weight of heavy hoses. Designed to surround and protect the drive unit from the elements to promote longer-lasting, safer operation.

### Easy System Integration

Easily change the inlet and motor direction to give you the option of a right- or left-hand flow orientation.

### Safe, Reliable Direct Drive and Gear Motors

Drive unit is clean and lubricated for life. No need to worry about greasy, exposed drive chains that need maintenance and can be dangerous to operators.

### Rugged and Durable Body

- Heavy-duty one piece welded frame is engineered to flex under extreme operating conditions and is stronger than bolted frames that can loosen with use.
- Individually painted and powder-coated components have superior corrosion resistance over assembled and painted products.



HOSE AND CORD REELS

## TYPICAL APPLICATIONS

- Heavy-duty truck dealers
- Fleet maintenance
- Mining maintenance
- Public works garages
- Construction vehicle maintenance
- Heavy-duty mobile service trucks
- Agriculture
- Lube trucks

## TYPICAL FLUIDS

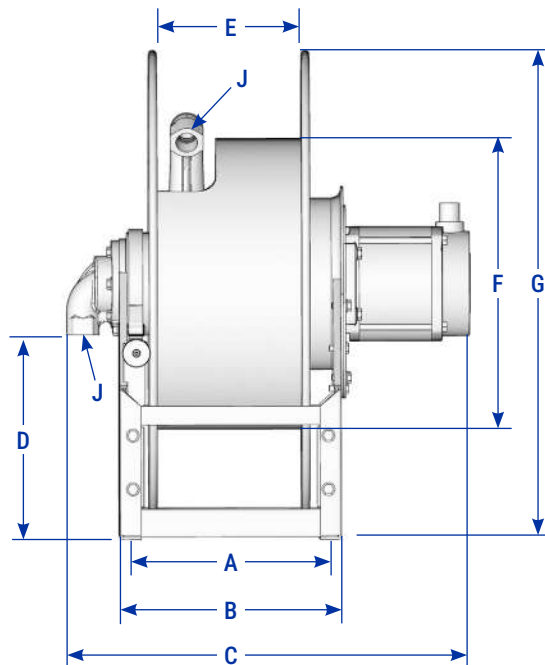
- Petroleum- and synthetic-based oils (motor, gear and ATF)
- Diesel fuel
- Air
- Water
- Grease
- Waste oil evacuation

## TECHNICAL SPECIFICATIONS

|                                                    |                                                                 |
|----------------------------------------------------|-----------------------------------------------------------------|
| Operating Temperature Range                        |                                                                 |
| Motorless Reels                                    | -40°F to 180°F (-40°C to 82°C)                                  |
| Air/Water Applications                             | -40°F to 180°F (-40°C to 82°C)                                  |
| Waste Oil Evacuation Applications                  | -40°F to 180°F (-40°C to 82°C)                                  |
| Oil Applications                                   | -40°F to 180°F (-40°C to 82°C)                                  |
| Grease Applications                                | 0°F to 180°F (-18°C to 82°C)                                    |
| Diesel Fuel Applications                           | -40°F to 140°F (-40°C to 60°C)                                  |
| Wetted Parts                                       | Nickel plated cast iron, cast iron, Buna-N rubber, polyethylene |
| Electric and Hydraulic Motors Sound Pressure Level | <80 dB(A)                                                       |
| Pneumatic Motors Sound Pressure Level              | 84.6 dB(A)                                                      |
| Pneumatic Motors Sound Power Level                 | 89.9 dB(A)                                                      |
| Instruction Manual                                 | 332630                                                          |

# XD SERIES BARE HOSE REELS

60 / 70 / 80



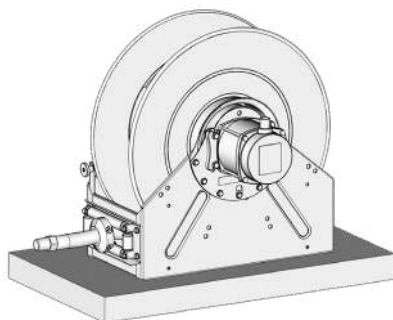
## DIMENSIONS

Reference dimension "D" for specific motor type

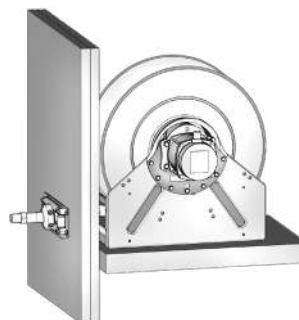
| Model   | Inlet/Outlet Size (J) NPT(F) | Dimensions in (mm) |            |            |            |            |            |           |            |            |
|---------|------------------------------|--------------------|------------|------------|------------|------------|------------|-----------|------------|------------|
|         |                              | A (Mounting Holes) | B          | C          |            |            | D          | E         | F          | G          |
|         |                              |                    |            | Pneumatic  | Hydraulic  | Electric   |            |           |            |            |
| XD 6010 | 1 in/1 in                    | 10.45 (256)        | 11.8 (300) | 20.4 (519) | 15.7 (400) | 21.6 (547) | 10.9 (277) | 7.8 (198) | 15.5 (394) | 26.1 (663) |
| XD 7010 | 1 in/1 in                    | 12.95 (329)        | 14.3 (363) | 22.9 (583) | 18.2 (463) | 24.1 (611) | 10.9 (277) | 10 (254)  | 10 (254)   | 26.1 (663) |
| XD 7015 | 1-1/2 in/1-1/2 in            | 12.95 (329)        | 14.3 (363) | 23.7 (603) | 19 (483)   | 24.8 (631) | 10.9 (277) | 10 (254)  | 10 (254)   | 26.1 (663) |
| XD 7020 | 2 in/2 in                    | 12.95 (329)        | 14.3 (363) | 24.1 (613) | 19.4 (493) | 25.2 (641) | 10.2 (259) | 10 (254)  | 10 (254)   | 26.1 (663) |
| XD 8010 | 1 in/1 in                    | 20.68 (525)        | 22.1 (561) | 30.7 (779) | 26 (659)   | 31.8 (807) | 13.4 (340) | 18 (457)  | 15.5 (394) | 30.1 (765) |
| XD 8015 | 1-1/2 in/1-1/2 in            | 20.68 (525)        | 22.1 (561) | 31.4 (799) | 26.7 (679) | 32.5 (827) | 13.4 (340) | 18 (457)  | 15.5 (394) | 30.1 (765) |
| XD 8020 | 2 in/2 in                    | 20.68 (525)        | 22.1 (561) | 31.9 (809) | 27.1 (689) | 33 (837)   | 12.7 (323) | 18 (457)  | 15.5 (394) | 30.1 (765) |

## TYPICAL MOUNTING CONFIGURATIONS

**Bench/Trunk Mount**



**Truck Mount with Remote Mounted Roller Guide**



HOSE AND CORD REELS

# GRACO XD SERIES POWERED HOSE REELS

## HOW TO SELECT AN XD POWERED BARE HOSE REEL

### A COMPLETE FAMILY OF MOTOR REWIND HOSE REELS

The innovative design of the XD reel family is packed with features to help you work safer, smarter and faster. Direct-drive motor options include hydraulic, pneumatic and electric for air, water, oil, grease, fuel dispense and waste oil evacuation applications.

Use this selection chart to configure the XD reel to suit your needs.



HOSE AND CORD REELS

#### A SPECIFY THE HOSE FLUID TYPE AND CAPACITY

Determine your fluid type and capacity before selecting your reel.

| Fluid Type                                                   | Hose ID in (mm)                     | Hose Length ft (m)                |
|--------------------------------------------------------------|-------------------------------------|-----------------------------------|
| <input type="checkbox"/> Air/Water                           | <input type="checkbox"/> 1/2 (13)   | <input type="checkbox"/> 50 (15)  |
| <input type="checkbox"/> Antifreeze                          | <input type="checkbox"/> 1 (25)     | <input type="checkbox"/> 75 (23)  |
| <input type="checkbox"/> Petroleum- and Synthetic-Based Oils | <input type="checkbox"/> 1-1/2 (38) | <input type="checkbox"/> 100 (30) |
| <input type="checkbox"/> Waste Oil                           | <input type="checkbox"/> 2 (51)     | <input type="checkbox"/> 150 (46) |
| <input type="checkbox"/> Diesel Fuel                         |                                     |                                   |

REQUIRED

**A**

#### C SELECT YOUR DRIVE TYPE AND FRAME

Motors must be purchased separately.

- Order Reel and Motor Separately (Page 246)
  - Pneumatic Motor
  - Hydraulic Motor
  - Electric Motor
    - 12 VDC, 1/2 HP
    - 12 VDC, 2/3 HP
    - 24 VDC, 1/2 HP
    - 24 VDC, 2/3 HP
    - 115 VAC, 0.40 HP

REQUIRED

**C**

#### B CHOOSE YOUR REEL SIZE

- XD 60
- XD 70
- XD 80

REQUIRED

**B**

#### D CHOOSE YOUR CONTROLS (Pages 246-247)

- Pneumatic Motor**
  - Pneumatic 2-position, 3-way valve
- Hydraulic Motor**
  - 12 VDC electric control of hydraulic motor, 3-position, 4-way valve
  - 12 VDC electric control of hydraulic motor with switch, 3-position, 4-way valve
  - 24 VDC electric control of hydraulic motor, 3-position, 4-way valve
  - 24 VDC electric control of hydraulic motor with switch, 3-position, 4-way valve
- Electric Motor**
  - Hazardous location on/off button
  - 12 VDC intermittent-duty solenoid
  - 24 VDC intermittent-duty solenoid
  - Manual reset button circuit breaker (25 or 50 amp)

REQUIRED

**D**

#### E HOSE INLET KIT (Page 248)

(Page 248)

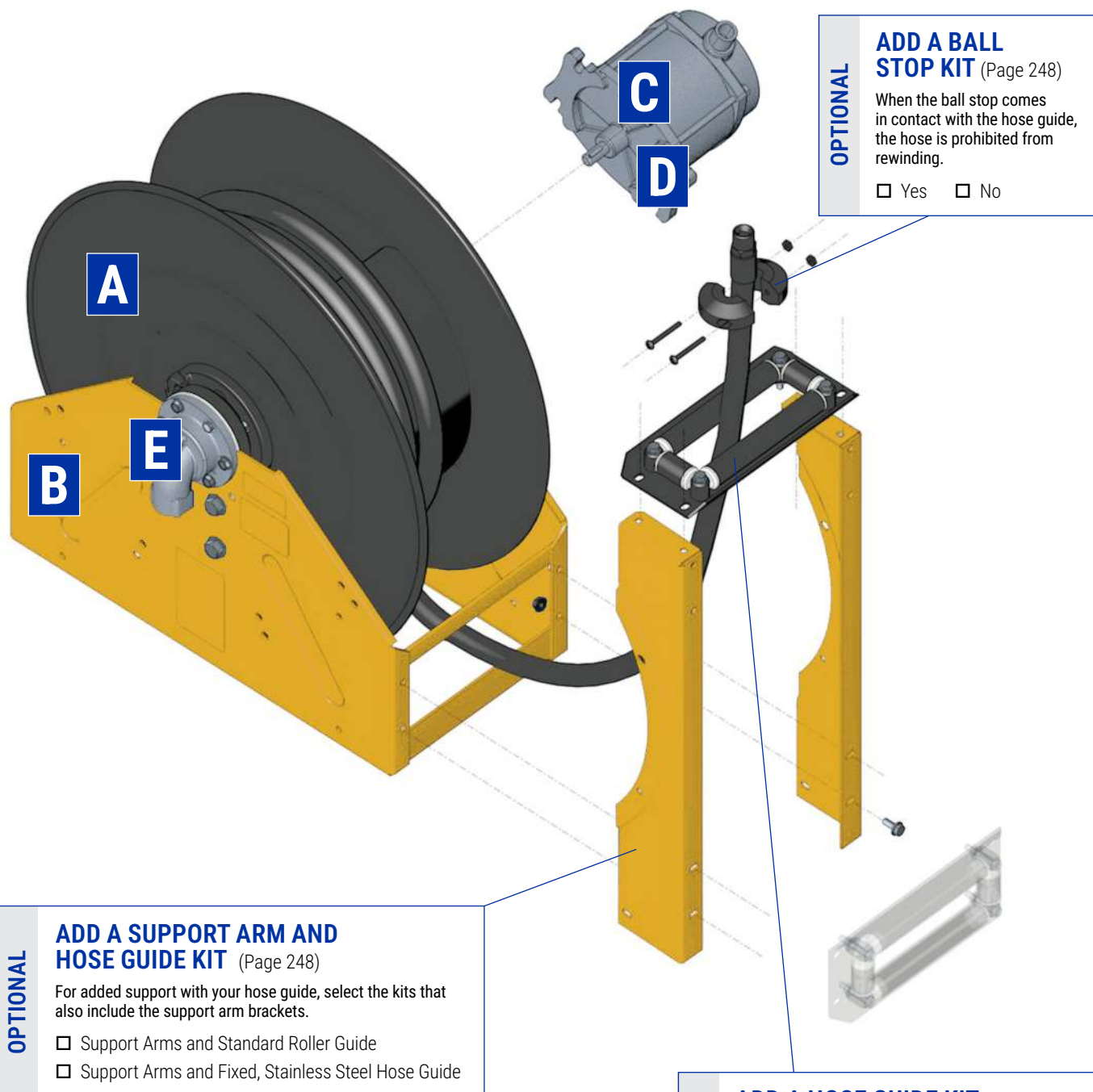
A hose inlet is required for installation. They are appropriately sized for the hose reels based on type of fluid, hose size and pressure.

Note: All 1-1/2 in (38 mm) hose reels include a 2 in (51 mm) Victaulic-style groove on inlet. If you are using these reels, it is recommended to order an inlet kit from Graco.

- Yes (required for installation)
- No (will supply my own hose inlet kit)

REQUIRED FOR INSTALLATION

**E**



**OPTIONAL**

**ADD A SUPPORT ARM AND HOSE GUIDE KIT** (Page 248)

For added support with your hose guide, select the kits that also include the support arm brackets.

- Support Arms and Standard Roller Guide
- Support Arms and Fixed, Stainless Steel Hose Guide

**OPTIONAL**

**ADD A BALL STOP KIT** (Page 248)

When the ball stop comes in contact with the hose guide, the hose is prohibited from rewinding.

Yes    No

**OPTIONAL**

**ADD A HOSE GUIDE KIT** (Page 248)

Select between a fixed, stainless steel hose guide or a general roller guide.

Hose guide mounts directly to the reel frame or in three different positions on the support arm.

- Standard Roller Guide
- Fixed, Stainless Steel Hose Guide

# XD SERIES BARE HOSE REELS

60 / 70 / 80

## ORDERING OPTIONS

### REEL FRAMES ONLY

### XD 60 / XD 70 / XD 80 REELS




Motor is not included and must be purchased separately.

| Reel Size | Fluid                 | Hose Capacity of Reel ft (m) |          |          |            |         | Maximum Pressure psi (bar) | Weight lb (kg) | Inlet/Outlet Size NPT(F) | Part Number                     |        |
|-----------|-----------------------|------------------------------|----------|----------|------------|---------|----------------------------|----------------|--------------------------|---------------------------------|--------|
|           |                       | Hose ID in (mm)              |          |          |            |         |                            |                |                          |                                 |        |
|           |                       | 1/2 (13)                     | 3/4 (19) | 1 (25)   | 1-1/2 (38) | 2 (51)  |                            |                |                          |                                 |        |
| XD 6010   | Air/Water/Diesel Fuel | 100 (30)                     | 100 (30) | 50 (15)  | -          | -       | 600 (41)                   | 87 (39)        | 1 in/1 in (25 mm/25 mm)  | 24T105                          |        |
|           | Oil                   | 100 (30)                     | 100 (30) | 50 (15)  | -          | -       | 3,000 (207)                | 88 (40)        |                          | 24T108                          |        |
|           | Waste Oil Evacuation  | -                            | -        | 50 (15)  | -          | -       | 600 (41)                   | 87 (39)        |                          | 24T105                          |        |
|           | Grease                | -                            | -        | 50 (15)  | -          | -       | 3,000 (207)                | 88 (40)        |                          | 24T108                          |        |
| XD 7010   | Air/Water/Diesel Fuel | -                            | -        | 100 (30) | -          | -       | 600 (41)                   | 86 (39)        |                          | 24T111                          |        |
|           | Oil                   | -                            | -        | 100 (30) | -          | -       | 3,000 (207)                | 87 (39)        |                          | 24T114                          |        |
| XD 8010   | Air/Water/Diesel Fuel | -                            | -        | 150 (46) | -          | -       | 600 (41)                   | 127 (58)       |                          | 24T123                          |        |
|           | Oil                   | -                            | -        | 150 (46) | -          | -       | 3,000 (207)                | 129 (58)       |                          | 24T126                          |        |
| XD 7015   | Waste Oil Evacuation  | -                            | -        | -        | 50 (15)    | -       | 600 (41)                   | 87 (39)        |                          | 1-1/2 in/1-1/2 in (38 mm/38 mm) | 24T117 |
|           |                       | -                            | -        | -        | 65 (20)    | -       | 600 (41)                   | 87 (39)        |                          |                                 | 24T117 |
| XD 8015   | Diesel Fuel           | -                            | -        | -        | 100 (30)   | -       | 600 (41)                   | 129 (58)       | 24T129                   |                                 |        |
| XD 7020   |                       | -                            | -        | -        | -          | 33 (10) | 600 (41)                   | 91 (41)        | 24T120                   |                                 |        |
| XD 8020   |                       | -                            | -        | -        | -          | 50 (15) | 600 (41)                   | 133 (60)       | 24T132                   |                                 |        |



HOSE AND CORD REELS

### MOTOR ASSEMBLIES – PAIR WITH FRAME-ONLY MODELS

| Part Number                                                                                | Description                                                                                     |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|  24T892 | Pneumatic motor assembly, reversible type. For installing motor to bare XD reel.                |
|  24T891 | Hydraulic motor assembly, reversible type. For installing motor to bare XD reel.                |
|         | 24T886 12 VDC, 1/2 HP motor assembly, reversible type. For installing motor to bare XD frame.   |
|                                                                                            | 24T910 12 VDC, 2/3 HP motor assembly, reversible type. For installing motor to bare XD frame.   |
|                                                                                            | 24T888 24 VDC, 1/2 HP motor assembly, reversible type. For installing motor to bare XD frame.   |
|                                                                                            | 24T911 24 VDC, 2/3 HP motor assembly, reversible type. For installing motor to bare XD frame.   |
|                                                                                            | 24T889 115 VAC, 0.40 HP motor assembly, reversible type. For installing motor to bare XD frame. |

### REMEMBER TO ORDER!

|                                                                                                                             |                                                                                                                          |                                                                                                                           |                                                                                                                         |                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <br><b>Ball Stop Kit</b><br>See page 248 | <br><b>Hose Guide</b><br>See page 248 | <br><b>Support Arm</b><br>See page 248 | <br><b>Hose</b><br>See page 249-250 | <br><b>Hose Inlet</b><br>See page 248 |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|

# XD SERIES BARE HOSE REEL ACCESSORIES



## ORDERING OPTIONS


### MOTOR CONTROLS (REQUIRED)

|                                                                                     | Part Number | Description                                                                                                                                              |
|-------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 127271      | Pneumatic valve to control XD 60/70/80 pneumatic powered hose reels. 2-position, 3-way valve.                                                            |
|    | 24T875      | Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 12 VDC. 3-position, 4-way valve.               |
|                                                                                     | 24T876      | Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 24 VDC. 3-position, 4-way valve.               |
|   | 127224      | Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 12V, includes switch. 3-position, 4-way valve. |
|                                                                                     | 127225      | Hydraulic control module for electric over hydraulic control of XD 60/70/80 hydraulic powered hose reels, 24V, includes switch. 3-position, 4-way valve. |
|  | 127214      | Momentary push-button on/off switch with red rubber cap. Use for 12 or 24 VDC.                                                                           |
|  | 127217      | Hazardous-location push-button on/off switch. Use for 12 and 24 VDC.                                                                                     |
|                                                                                     | 127223      | Hazardous-location push-button on/off switch. Use for 115 and 220 VAC.                                                                                   |
|  | 127218      | Hazardous-location junction box                                                                                                                          |
|  | 127219      | 12 VDC intermittent-duty solenoid recommended for activating rewind on 12 VDC motor                                                                      |
|                                                                                     | 127220      | 24 VDC intermittent-duty solenoid recommended for activating rewind on 24 VDC motor                                                                      |
|  | 127221      | Manual-reset push-button circuit breaker, 50 amp rating                                                                                                  |
|                                                                                     | 127222      | Manual-reset push-button circuit breaker, 25 amp rating                                                                                                  |


# XD SERIES BARE HOSE REEL ACCESSORIES

## ORDERING OPTIONS


### BALL STOP KITS

|  | Part Number | Description                                 |
|-----------------------------------------------------------------------------------|-------------|---------------------------------------------|
|                                                                                   | 237873      | Ball stop kit used for 3/4 in (19 mm) hose  |
|                                                                                   | 237874      | Ball stop kit used for 1 in (25 mm) hose    |
|                                                                                   | 24R060      | Ball stop kit used for 1.25 in (32 mm) hose |
|                                                                                   | 24R061      | Ball stop kit used for 1.5 in (38 mm) hose  |


### HOSE GUIDE

|  | Part Number | Description                                       |
|-----------------------------------------------------------------------------------|-------------|---------------------------------------------------|
|                                                                                   | 24T327      | Stainless steel hose guide for XD 60              |
|                                                                                   | 24T328      | Stainless steel hose guide for XD 70              |
|                                                                                   | 24T329      | Stainless steel hose guide for XD 80              |
|                                                                                   | 24R072      | Roller guide kit with bracket for XD 40 and XD 60 |
|                                                                                   | 24T330      | Roller guide kit with bracket for XD 70           |
|                                                                                   | 24T331      | Roller guide kit with bracket for XD 80           |


### SUPPORT ARM KIT WITH HOSE GUIDE

|  | Part Number | Description                                                |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------|
|                                                                                     | 24T332      | Arm kit with stainless steel hose guide for XD 60 (24T327) |
|                                                                                     | 24T333      | Arm kit with stainless steel hose guide for XD 70 (24T328) |
|                                                                                     | 24T334      | Arm kit with stainless steel hose guide for XD 80 (24T329) |
|                                                                                     | 24T335      | Arm kit with roller guide for XD 60 (24R072)               |
|                                                                                     | 24T336      | Arm kit with roller guide for XD 70 (24T330)               |
|                                                                                     | 24T337      | Arm kit with roller guide for XD 80 (24T331)               |

### HOSE INLET KITS

|  | Part Number | Description                                                                                                                   |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | 24R111      | 1 in (25 mm) hose inlet kit for air/water and oil<br>1,275 psi (88 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long          |
|                                                                                     | 24R112      | 1 in (25 mm) hose inlet kit for waste oil evacuation<br>250 psi (17 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long         |
|                                                                                     | 24R115      | 1 in (25 mm) hose inlet kit for diesel fuel<br>250 psi (17 bar), 1 in NPT hose inlet ID, 28 in (710 mm) long                  |
|                                                                                     | 24R117      | 1-1/2 in (38 mm) hose inlet kit for diesel fuel<br>150 psi (10 bar), 1-1/2 in NPT hose inlet ID, 28 in (710 mm) long          |
|                                                                                     | 24R118      | 2 in (51 mm) hose inlet kit for diesel fuel<br>150 psi (10 bar), 2 in NPT hose inlet ID, 28 in (710 mm) long                  |
|                                                                                     | 24T858      | 1-1/2 in (38 mm) hose inlet kit for waste oil evacuation<br>150 psi (10 bar), 1-1/2 in NPT hose inlet ID, 28 in (710 mm) long |

### SELF-ADHESIVE IDENTIFICATION LABEL SET


|  | Part Number | Description                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     | 180698      | Set includes: 1 in x 5 in (25.4 mm x 127 mm) hose reels labels for Antifreeze, Water, SAE 5-40, SAE 10-40, SAE 20W, Hydraulic, Gear, SAE 10W, SAE 10-30, SAE 30W, Dexron, Air, Chassis, ATF |



# HOSE REEL ACCESSORIES


## ORDERING OPTIONS

### AIR/WATER/ANTIFREEZE HOSES




| Part Number | Description                                                           | Compatible Reel Series |
|-------------|-----------------------------------------------------------------------|------------------------|
| 16A684      | 1/2 in x 75 ft (13 mm x 23 m) hose for air/water, 300 psi (20.6 bar)  | XD 30                  |
| 126359      | 1/2 in x 100 ft (13 mm x 30 m) hose for air/water, 300 psi (20.6 bar) | XD 40, XD 60           |
| 16A707      | 3/4 in x 50 ft (19 mm x 15 m) hose for air/water, 300 psi (20.6 bar)  | XD 30                  |
| 126360      | 3/4 in x 75 ft (19 mm x 23 m) hose for air/water, 300 psi (20.6 bar)  | XD 40                  |
| 126361      | 3/4 in x 100 ft (19 mm x 30 m) hose for air/water, 300 psi (20.6 bar) | XD 40, XD 60           |
| 126362      | 1 in x 50 ft (25 mm x 15 m) hose for air/water, 300 psi (20.6 bar)    | XD 40, XD 60           |
| 126363      | 1 in x 75 ft (25 mm x 23 m) hose for air/water, 300 psi (20.6 bar)    | XD 50                  |
| 126364      | 1 in x 100 ft (25 mm x 30 m) hose for air/water, 300 psi (20.6 bar)   | XD 50, XD 70           |

### OIL HOSES




| Part Number | Description                                                      | Compatible Reel Series |
|-------------|------------------------------------------------------------------|------------------------|
| 26C121      | 1/2 in x 35 ft (13 mm x 11 m) hose for oil, 2,000 psi (138 bar)  | SDX 10, XDX 10         |
| 26C122      | 1/2 in x 50 ft (13 mm x 15 m) hose for oil, 2,000 psi (138 bar)  | SDX 20, XDX 20         |
| 26C123      | 1/2 in x 75 ft (13 mm x 23 m) hose for oil, 2,000 psi (138 bar)  | XD 30                  |
| 26C124      | 1/2 in x 100 ft (13 mm x 30 m) hose for oil, 2,000 psi (138 bar) | XD 40, XD 60           |
| 126376      | 3/4 in x 75 ft (19 mm x 23 m) hose for oil, 1,500 psi (103 bar)  | XD 40, XD 60           |
| 126377      | 3/4 in x 100 ft (19 mm x 30 m) hose for oil, 1,500 psi (103 bar) | XD 40, XD 60           |
| 126503      | 1 in x 50 ft (25 mm x 15 m) hose for oil, 3,000 psi (207 bar)    | XD 40, XD 60           |
| 126504      | 1 in x 75 ft (25 mm x 23 m) hose for oil, 3,000 psi (207 bar)    | XD 50                  |
| 126505      | 1 in x 100 ft (25 mm x 30 m) hose for oil, 3,000 psi (207 bar)   | XD 70, XD 80           |

### GREASE HOSES



| Part Number | Description                                                        | Compatible Reel Series |
|-------------|--------------------------------------------------------------------|------------------------|
| 109158      | 1/4 in x 50 ft (6 mm x 15m) hose for grease, 5,000 psi (345 bar)   | SDX 10, XDX 10         |
| 124470      | 3/8 in x 35 ft (10 mm x 11 m) hose for grease, 4,800 psi (331 bar) | SDX 10, XDX 10         |
| 124461      | 3/8 in x 50 ft (10 mm x 15 m) hose for grease, 4,800 psi (331 bar) | SDX 20, XDX 20         |
| 126076      | 3/8 in x 75 ft (10 mm x 23m) hose for grease, 5,000 psi (345 bar)  | XD 30                  |
| 16A674      | 1/2 in x 50 ft (13 mm x 15 m) hose for grease, 5,000 psi (345 bar) | XD 30                  |

### WASTE OIL EVACUATION HOSES




| Part Number | Description                                                              | Compatible Reel Series |
|-------------|--------------------------------------------------------------------------|------------------------|
| 16A686      | 1 in x 30 ft (25 mm x 9 m) hose for waste oil or fuel, 125 psi (9 bar)   | XD 30                  |
| 126379      | 1 in x 50 ft (25 mm x 15 m) hose for waste oil, 250 psi (17 bar)         | XD 40, XD 60           |
| 126380      | 1 1/4 in x 35 ft (32 mm x 10.5 m) hose for waste oil, 200 psi (13.8 bar) | XD 50                  |
| 126688      | 1 1/4 in x 50 ft (32 mm x 15 m) hose for waste oil, 200 psi (13.8 bar)   | XD 50                  |
| 127173      | 1 1/2 in x 50 ft (38 mm x 15 m) hose for waste oil, 200 psi (13.8 bar)   | XD 50                  |

# HOSE REEL ACCESSORIES


## ORDERING OPTIONS

### DIESEL FUEL HOSES




| Part Number | Description                                                              | Compatible Reel Series |
|-------------|--------------------------------------------------------------------------|------------------------|
| 16A686      | 1 in x 30 ft (25 mm x 9 m) hose for waste oil or fuel, 125 psi (9 bar)   | XD 30                  |
| 24R102      | 1 in x 50 ft (25 mm x 15 m) hose for diesel fuel, 250 psi (17 bar)       | XD 40, XD 60           |
| 24R103      | 1 in x 75 ft (25 mm x 23 m) hose for diesel fuel, 250 psi (17 bar)       | XD 50                  |
| 24R106      | 1 in x 100 ft (25 mm x 30 m) hose for diesel fuel, 250 psi (17 bar)      | XD 50, XD 70           |
| 24T252      | 1 in x 150 ft (25 mm x 46 m) hose for diesel fuel, 250 psi (17 bar)      | XD 80                  |
| 24R108      | 1 1/4 in x 35 ft (32 mm x 10.5 m) hose for diesel fuel, 250 psi (17 bar) | XD 50                  |
| 24R110      | 1 1/4 in x 50 ft (32 mm x 15 m) hose for diesel fuel, 250 psi (17 bar)   | XD 50                  |
| 24R114      | 1 1/2 in x 50 ft (38 mm x 15 m) hose for diesel fuel, 150 psi (11 bar)   | XD 50                  |
| 24T253      | 1 1/2 in x 100 ft (38 mm x 30 m) hose for diesel fuel, 150 psi (11 bar)  | XD 80                  |
| 127167      | 2 in x 33 ft (51 mm x 10 m) hose for diesel fuel, 150 psi (11 bar)       | XD 80                  |
| 24T254      | 2 in x 50 ft (51 mm x 15 m) hose for diesel fuel, 150 psi (11 bar)       | XD 80                  |

### DIESEL EXHAUST FLUID (DEF) HOSES



| Part Number | Description                                                      | Compatible Reel Series |
|-------------|------------------------------------------------------------------|------------------------|
| 125242      | 3/4 in x 50 ft (19 mm x 15 m) hose for DEF fluid, 50 psi (3 bar) | XD 30                  |

### PRESSURE WASH HOSES



| Part Number | Description                                                              | Compatible Reel Series |
|-------------|--------------------------------------------------------------------------|------------------------|
| 16A688      | 3/8 in x 75 ft (10 mm x 23m) hose for pressure wash, 4,000 psi (276 bar) | XD 30                  |

# FLUID RECLAIM EQUIPMENT



|                            | Page    |
|----------------------------|---------|
| Oil King™                  | 252     |
| Coolant King™              | 253     |
| Oil Ace™                   | 254-256 |
| 16-Gallon Mobile Receiver  | 257     |
| Big Hauler™ Truck Drain    | 258     |
| Diaphragm Evacuation Pumps | 259     |
| Evacuation Pump Packages   | 260-262 |
| Fluid Reclaim Accessories  | 263-265 |

## CONVENIENT USED-OIL RECEIVER

Oil King is designed with the busy shop in mind. With oversized tires and push-pull handles it allows for smooth maneuvering. The large funnel can collect fluids from both a drain plug and a filter port at the same time.

### Large Offset Collection Pan

This funnel can be raised to a maximum height of 72 in (183 cm) and is equipped with a filter screen to prevent debris from entering the tank.

### Filter Drain Tray

Used filters are able to drain separately from the collection pan.

### Convenient Tool Tray

Built-in holding bins for new or used filters, wrenches and rags all at your fingertips.

### Large 25-Gallon (94.6 l) Capacity Receiver

- Made from a heavy-duty, durable UV stabilized polymer.
- Dent-, rust- and corrosion-resistant.

### Liquid Sight Gauge

A full-length liquid level sight gauge lets you know when the tank is full.

### Two Evacuation Port Options

Choose from the gravity drain valve at the bottom or suction evacuation at the top.

### Oversized Tires

Easily maneuver over hose and rough floors.



## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities

## TYPICAL FLUIDS

- Used oil

## TECHNICAL SPECIFICATIONS

|                    |                                  |
|--------------------|----------------------------------|
| Fluid              | Used Oil                         |
| Fluid Capacity     | 25 gal (95 l)                    |
| Evacuation         | Bottom – Gravity / Top – Suction |
| Receiver Material  | Polyethylene                     |
| Length             | 24 in (60 cm)                    |
| Width              | 24 in (60 cm)                    |
| Height             | 45 to 72 in (1.1 to 1.8 m)       |
| Funnel Size        | 22 x 24 in (50 x 56 cm)          |
| Dry Weight         | 54 lb                            |
| Instruction Manual | 308667                           |

## ORDERING OPTIONS

| Part Number | Description                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 238866      | 25 gal (95 l) used-oil receiver with used-filter tray, tool holders and sight gauge. Must use wall mount package (224873) for topside evacuation. |

Must ship via truck.



# COOLANT KING™

## DURABLE RECEIVER

Coolant King is designed with the busy shop in mind. With oversized tires and push-pull handles it allows for smooth maneuvering. The full-length sight gauge lets you know when the tank is full.



### Convenient Tool Tray

Built-in holding bins for shop tools at your fingertips.

### Liquid Sight Gauge

A full-length liquid level sight gauge lets you know when the tank is full.

### Oversized Tires

Easily maneuver over hose and rough floors.

### Large Offset Collection Pan

This funnel can be raised to a maximum height of 72 in (183 cm) and is equipped with a filter screen to prevent debris from entering the tank.

### Large 25-Gallon (94.6 l) Capacity Receiver

- Made from a heavy-duty, durable UV stabilized polymer.
- Dent-, rust- and corrosion-resistant.
- Color-specific for easy identification.

### Two Evacuation Port Options

Choose from the gravity drain valve at the bottom or suction evacuation at the top.

FLUID RECLAIM EQUIPMENT

## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities

## TYPICAL FLUIDS

- Used oil

## TECHNICAL SPECIFICATIONS

|                    |                                  |
|--------------------|----------------------------------|
| Fluid              | Antifreeze                       |
| Fluid Capacity     | 25 gal (95 l)                    |
| Evacuation         | Bottom – Gravity / Top – Suction |
| Receiver Material  | Polyethylene                     |
| Length             | 24 in (60 cm)                    |
| Width              | 24 in (60 cm)                    |
| Height             | 45 to 72 in (1.1 to 1.8 m)       |
| Funnel Size        | 22 x 24 in (50 x 56 cm)          |
| Dry Weight         | 54 lb                            |
| Instruction Manual | 308667                           |

## ORDERING OPTIONS

| Part Number | Description                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 248632      | 25 gal (95 l) used-antifreeze receiver with used-filter tray, tool holders and sight gauge. Must use wall mount package (224873) for topside evacuation. |

Must ship via truck.

# OIL ACE™ DRAIN

## PRESSURIZED OIL DRAIN

Drain, evacuate and transfer used oil reliably, quickly and in the most cost-effective manner.

### Large Offset Collection Pan

23 inch (58 cm) diameter offset collection bowl gives you a 31 inch (79 cm) total reach.

### Superior Maneuverability

Wider and thicker handle for comfort.

### Easy to Drain

Pressurize using shop air for easy oil evacuation.

### Large 24-Gallon (90 l) Capacity Receiver

Perfect for small to large shops without an evacuation system.

### Liquid Sight Gauge

Easy-to-read tank-level gauge lets you know when the tank is full.

### Large Casters

Easily move around rough shop floors.



## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities

## TYPICAL FLUIDS

- Used oil

## TECHNICAL SPECIFICATIONS

|                    |                               |
|--------------------|-------------------------------|
| Fluid              | Used oil                      |
| Fluid Capacity     | 24 gallon (90 l)              |
| Evacuation         | Pressurized                   |
| Receiver Material  | Steel                         |
| Length             | 24 in (61 cm)                 |
| Width              | 16 in (40.6 cm)               |
| Height             | 56 to 80 in (143.5 to 203 cm) |
| Funnel Size        | 24 in (61 cm) diameter        |
| Dry Weight         | 74 lb                         |
| Instruction Manual | 310864                        |

## ORDERING OPTIONS

| Part Number | Description                                    |
|-------------|------------------------------------------------|
| 119577      | 24 gal (90 l) steel-tank pressurized oil drain |



# OIL ACE® – USED OIL EVACUATION

## VACUUM-ASSISTED OIL COLLECTION SYSTEM

Large-capacity collection systems make removing drain plugs a thing of the past. Oil Ace models with optional sight chamber offer the technician a visual indication of the waste fluid quantity. This technology reduces the threat of costly damages caused by over- or under-torquing or cross-threading drain plugs.

### Large Offset Collection Pan

Wide offset collection bowl prevents splashing.

### Vacuum Gauge

Ensure peak performance with easy-to-read vacuum gauge.

### Sight Glass

Inspect oil quality via large, clear evacuation chamber and verify amount extracted.

### Easy to Drain

Pressurize using shop air for easy oil evacuation.

### Vacuum Probes

Variety of flexible suction attachments and adapters included.

### Large 24 Gallon (90 l) Capacity Receiver

Perfect for small to large shops without an evacuation system.



FLUID RECLAIM EQUIPMENT

### TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities

### TYPICAL FLUIDS





- Used oil

### TECHNICAL SPECIFICATIONS

|                    |                                  |
|--------------------|----------------------------------|
| Fluid              | Used oil                         |
| Tank Capacity      | 24 gallon (90 l)                 |
| Evacuation         | Pressurized                      |
| Receiver Material  | Steel                            |
| Length             | 24 in (61 cm)                    |
| Width              | 16 in (40.6 cm)                  |
| Height             | 39 to 70.8 in (99 to 180 cm)     |
| Funnel Size        | 23.8 in (60 cm)                  |
| Dry Weight         | 50.7 to 73.2 lbs (23 to 33.2 kg) |
| Instruction Manual | 310864                           |

# OIL ACE® – USED OIL EVACUATION

## ORDERING OPTIONS

|                                                                                     | Part Number | Description                                                                              |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------|
|    | 26C061      | 24 gal (90 l) steel tank with suction probes and adapters                                |
|   | 26C062      | 24 gal (90 l) steel tank with suction probes, adapters and sight glass                   |
|  | 26C063      | 24 gal (90 l) steel tank with suction probes, adapters and oil drain funnel              |
|  | 26C064      | 24 gal (90 l) steel tank with suction probes, adapters, sight glass and oil drain funnel |

FLUID RECLAIM EQUIPMENT



# 16-GALLON MOBILE RECEIVER



## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities

## TYPICAL FLUIDS

- Used oil

## TECHNICAL SPECIFICATIONS

|                   |                                      |
|-------------------|--------------------------------------|
| Fluid             | Used oil                             |
| Fluid Capacity    | 16 gal (61 l)                        |
| Evacuation        | Gravity                              |
| Receiver Material | Steel (239302 does not include drum) |
| Manual            | 306449                               |
| Length            | 26 in (66 cm)                        |
| Width             | 23 in (58 cm)                        |
| Height            | 42 to 70 in (107 to 177 cm)          |
| Funnel Size       | 23 x 23 in (58 x 58 cm)              |
| Dry Weight        | 40 lb (18 kg)                        |

## ORDERING OPTIONS

| Part Number | Description                                             |
|-------------|---------------------------------------------------------|
| 239301*     | 16 gal (60 l) Oil receiver with steel drum oil receiver |
| 239302      | 16 gal (60 l) Oil receiver without drum                 |

\*Use with evacuation kit 224873 or 24E166. 240832 can be ordered separately for existing diaphragm pump evacuation systems.

FLUID RECLAIM EQUIPMENT

## Accessories

### FUNNEL KIT

| Part Number | Description                                                         |
|-------------|---------------------------------------------------------------------|
| 243650      | Use with 238866, 239301, 239302 and 248632. Includes tray and pipe. |

### WALL-MOUNTED FUNNEL DRAIN

| Part Number | Description                                                                                                                                   |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 154616      | Use with Pedestal Receiver 225272 to open automatic check-valve and drain used oil through wall to waste tank. Drain has 1-1/4 NPT(F) outlet. |

### DRUM-MOUNTED FUNNEL DRAIN

| Part Number | Description                                                                                                                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 156789      | Use with Pedestal Receiver 225272 to open automatic check-valve and drain used oil into standard drum. Funnel drain has 2 in NPT bung fitting for use with 55 gal (210 l) or 16 gal (60 l) drums or 275 gallon (1,100 l) tanks. |

### ATF DRAIN FUNNEL

| Part Number | Description                                                                                                                                |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| 208009      | Use with Pedestal Receiver 225272 to extend funnel reach. Use for draining transmissions. Not equipped with drain plug. 16 in x 24-1/2 in. |

# BIG HAULER™ TRUCK DRAIN



## TYPICAL APPLICATIONS

- Truck maintenance facility
- Heavy-duty dealerships
- Fleet services facilities

## TYPICAL FLUIDS

- Antifreeze
- Used oil

## TECHNICAL SPECIFICATIONS

|                    |                              |
|--------------------|------------------------------|
| Fluid              | Antifreeze / Oil             |
| Fluid Capacity     | 26 gal (98.4 l)              |
| Evacuation         | Gravity                      |
| Receiver Material  | Steel                        |
| Length             | 42 in (106.7 cm)             |
| Width              | 30 in (76.2 cm)              |
| Height             | 9 to 11 in (22.9 to 27.9 cm) |
| Instruction Manual | 309194                       |

## ORDERING OPTIONS

| Part Number | Description                                                                |
|-------------|----------------------------------------------------------------------------|
| 244055*     | Big Hauler truck drain specially designed for truck maintenance facilities |

\*Use with evacuation kit 224873 or 24E166. 240832 can be ordered separately for existing diaphragm pump evacuation systems.

# TRACK RECEIVERS



## TYPICAL APPLICATIONS

- Fast lube centers
- Fleet services facilities

## TYPICAL FLUIDS

- Used oil

## TECHNICAL SPECIFICATIONS

| Part Number        | 218969                         | 235346                           |
|--------------------|--------------------------------|----------------------------------|
| Fluid              | Oil                            | Oil                              |
| Fluid Capacity     | 30 gal (113 l)                 | 27 gal (102 l)                   |
| Evacuation         | Gravity                        | Gravity                          |
| Receiver Material  | Steel                          | Steel                            |
| Extension Range    | 37.5 to 46 in (0.95 to 1.17 m) | 34.1 to 42.6 in (0.87 to 1.08 m) |
| Instruction Manual | 307727                         | 307727                           |

## ORDERING OPTIONS

| Part Number | Description                                                                                                                                                                                                             |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 218969      | Specially designed for car and truck fast lube facilities where speed and mobility are important. Adjustable steel rollers fit track widths.                                                                            |
| 235346      | Narrow rolling used-oil receiver, specially designed for car and truck fast lube facilities where speed and mobility are important. Adjustable steel rollers fit track widths. Same as 218969 except track width range. |



# DIAPHRAGM EVACUATION PUMPS

## TYPICAL APPLICATIONS

- Automotive dealerships
- Fast lube centers
- Service shops
- Heavy-duty dealerships
- Fleet services facilities

## TYPICAL FLUIDS

- Used oil



Husky 1050



Husky 716

## TECHNICAL SPECIFICATIONS

|                                      | Husky 716                                                          | Husky 1050                             |
|--------------------------------------|--------------------------------------------------------------------|----------------------------------------|
| Maximum Fluid Working Pressure       | 100 psi (7.0 bar / 0.7 MPa)                                        | 100 psi (7.0 bar / 0.7 MPa)            |
| Approximate Free Flow Rate @ 100 psi | 16 gal/min (61 l/min)                                              | 50 gal/min (189 l/min)                 |
| Output per Cycle                     | 0.04 gal (0.15 l)                                                  | 0.17 gal (0.64 l)                      |
| Air Inlet                            | 1/4 in                                                             | 1/2 in                                 |
| Fluid Inlet                          | 3/4 in                                                             | 1 in                                   |
| Fluid Outlet                         | 3/4 in                                                             | 1 in                                   |
| Maximum Pump Speed                   | 400 cpm                                                            | 275 cpm                                |
| Cycles per Gallon                    | 25 cpg                                                             | 5.9 cpg                                |
| Cycles per Liter                     | 6.7 cpl                                                            | 1.6 cpl                                |
| Wetted Parts                         | Buna-N, acetal, aluminum, stainless steel, PTFE, zinc-plated steel | Aluminum, TPC-ET, acetal, PTFE, Buna-N |
| Sound Pressure Level                 | 85 dB(A)                                                           | 96 dB(A)                               |
| Sound Power Level                    | 95 dB(A)                                                           | 90 dB(A)                               |
| Approximate Weight                   | 8.5 lb (3.9 kg)                                                    | 23 lb (10.5 kg)                        |
| Instruction Manual                   | 308573                                                             | 313597                                 |

## ORDERING OPTIONS

| Part Number | Description                |
|-------------|----------------------------|
| 241906      | Husky 716 Evacuation Pump  |
| 647731      | Husky 1050 Evacuation Pump |

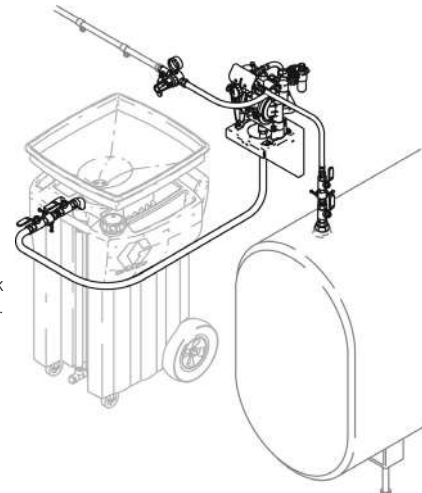
# EVACUATION PUMP PACKAGES

## ORDERING OPTIONS

### WALL MOUNT PACKAGES



|                        |                        |                        |                  |
|------------------------|------------------------|------------------------|------------------|
| Package Number         | 24E166                 | 25T815                 | 224873           |
| Diaphragm Pump         | 1050A (1 in) UL-listed | 1050A (1 in) UL-listed | 716 (3/4 in)     |
| Pump Part Number       | 647731                 | 647016                 | 241906           |
| Mounting Type          | Wall Bracket           | Wall Bracket           | Wall Bracket     |
| Mounting Part Number   | 24C637                 | 24C637                 | 224835           |
| Fluid                  | Oil                    | Antifreeze             | Antifreeze / Oil |
| Evacuation             | Drum Adapter           | Drum Adapter           | Drum Adapter     |
| Evacuation Part Number | 240832                 | 240832                 | 240832           |
| Air Installation Kit   | 240684                 | 240684                 | 240684           |
| Fluid Installation Kit | 240685                 | 240685                 | 240685           |
| Instruction Manual     | 313597                 | 313597                 | 308719           |
| Listings               | UL, CE                 | UL, CE                 | -                |



Package 224873 installed on Oil King and tank (neither included in package).



## ORDERING OPTIONS

### BASE PUMP PACKAGES

System evacuates lube from differential case using suction generated by a diaphragm pump. Nylon tubes ranging in size from 3/16 in OD to 1/2 in OD are included to fit through sight plug to completely drain the case. Evacuated gear lube is then pumped to waste tank. Piping and waste tank not included. Systems are fully groundable and bondable for safe transfer of used oil.



|                        |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                           |                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Package Number         | 224955                                                                                                                                                                                                                                      | 24E167                                                                                                                                                                                                                                                                                    | 223695              |
| Diaphragm Pump         | 716 (3/4 in)                                                                                                                                                                                                                                | 1050A (1 in)                                                                                                                                                                                                                                                                              | 716 (3/4 in)        |
| Pump Part Number       | 241906                                                                                                                                                                                                                                      | 647731                                                                                                                                                                                                                                                                                    | 241906              |
| Mounting Type          | Base                                                                                                                                                                                                                                        | Wall Bracket                                                                                                                                                                                                                                                                              | Cart Hanger Bracket |
| Mounting Bracket/Kit   | -                                                                                                                                                                                                                                           | 24C637                                                                                                                                                                                                                                                                                    | 223697              |
| Fluid                  | Gear Lube                                                                                                                                                                                                                                   | Gear Lube                                                                                                                                                                                                                                                                                 | Gear Lube           |
| Evacuation             | Suction Wand                                                                                                                                                                                                                                | Suction Wand                                                                                                                                                                                                                                                                              | Suction Wand        |
| Evacuation Part Number | 221146                                                                                                                                                                                                                                      | 221146                                                                                                                                                                                                                                                                                    | 223696              |
| Air Control Kit        | 110149                                                                                                                                                                                                                                      | 221147                                                                                                                                                                                                                                                                                    | -                   |
| Instruction Manual     | 308573                                                                                                                                                                                                                                      | 313597                                                                                                                                                                                                                                                                                    | 308035 / 308573     |
| Listings               | CE                                                                                                                                                                                                                                          | UL, CE                                                                                                                                                                                                                                                                                    | -                   |
| Notes                  | Order additional suction hose/wand (221146) and additional control valve (220969) for each additional suction point. Order grounding clamp (222011) or use locally supplied grounding wires and clamps in accordance with applicable codes. | Order additional suction hose/wand 221146 and additional control valve 220969 for each additional suction point. Order grounding clamp 222011 or use locally supplied grounding wires and clamps in accordance with applicable codes. See instruction manual 313597 for more information. | -                   |

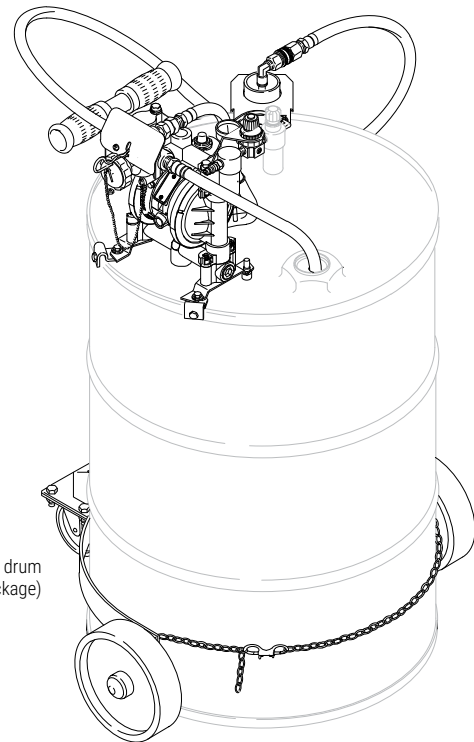
# EVACUATION PUMP PACKAGES

## ORDERING OPTIONS

### FAS-VAC MOBILE PACKAGES



|                                           |                 |                 |
|-------------------------------------------|-----------------|-----------------|
| Package Number                            | 224700          | 224701          |
| Cart                                      | 224665          | 111470          |
| Compatible Drum Size<br>(Not included)    | 16 gal (60 l)   | 55 gal (200 l)  |
| Pump                                      | 716 (3/4 in)    | 716 (3/4 in)    |
| Pump Package                              | 224667          | 224667          |
| Fluid                                     | Oil, Gear Lube  | Oil, Gear Lube  |
| Evacuation Kit                            | 224669 / 224666 | 224702 / 224666 |
| 4-Way Valve                               | 187359          | 187359          |
| Port Size                                 | 1/2 NPT(F)      | 1/2 NPT(F)      |
| Instruction Manual                        | 308154          | 308154          |
| Must be ordered separately (Not Included) |                 |                 |
| Filter Regulator<br>Lubricator (FRL)      | 110149          | 110149          |
| FRL Mounting Kit                          | 224759          | 224759          |



Package 224701 installed on oil drum  
(Drum and filter regulator not included in package)



# FLUID RECLAIM ACCESSORIES

## ORDERING OPTIONS

### 4-WAY EVACUATION VALVE

Directional control valve used to simplify the filling and emptying of tanks

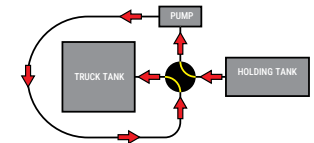


#### Features and Benefits

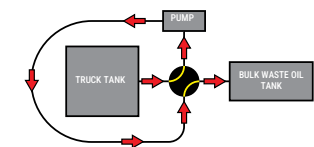
- Simplifies installation by eliminating need for multiple valves
- Unrestricted flow – no pressure or volume loss
- Two-position tank fill and emptying control
- Tapered, self-seating valve spool for superior sealing performance

| Part Number | Description                            |
|-------------|----------------------------------------|
| 120581      | 1 in NPT(F) 4-Way Evacuation Valve     |
| 120601      | 1-1/2 in NPT(F) 4-Way Evacuation Valve |

#### LUBE TRUCK/HOLDING TANK



#### LUBE TRUCK/BULK WASTE TANK



### AIR REGULATORS

Provides precision control of outlet air pressure. Feedback principle provides constant pressure to pump regardless of air demand rate and fluctuations in supply pressure. Additional fittings required (except air regulators with installation kits).

|  | Part Number | Description                         |
|--|-------------|-------------------------------------|
|  | 110318      | 1/4 NPT(FBE)                        |
|  | 110147      | 1/4 NPT(FBE) with gauge             |
|  | 110234      | 3/8 NPT(FBE)                        |
|  | 109075      | 3/8 NPT(FBE) with gauge             |
|  | 202858      | 3/8 NPT(M) x 1/2 NPSM(F) with gauge |
|  | 104266      | 1/2 NPT(FBE)                        |
|  | 244844      | 1/2 NPT(FBE) with gauge             |
|  | 207755      | 3/4 NPT(FBE)                        |
|  | 244845      | 3/4 NPT(FBE) with gauge             |

# FLUID RECLAIM ACCESSORIES

## ORDERING OPTIONS



### AIR FILTERS AND DRAINS

Centrifugal action 1/4, 3/8 and 1/2 NPT (with 20 micron filters); 3/4 NPT having 40 micron filters to remove water and foreign particles from air supply.

|                                                                                     | Part Number | Description                                                                        |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------|
|    | 110146      | 1/4 NPT(FBE) Air Filter. Manual drain.                                             |
|    | 106148      | 3/8 NPT(FBE) Air Filter. Auto-drain.                                               |
|    | 106149      | 1/2 NPT(FBE) Air Filter. Manual drain.                                             |
|   | 106150      | 3/4 NPT(FBE) Air Filter. Manual drain.                                             |
|  | 106151      | Automatic filter drain float-type, 1/4 NPT(M). Use with 106150, 112859 and 217074. |
|  | 127711      | Automatic filter drain float-type. Use with 106148 and 106149. Sold in NA only.    |

### INSTALLATION KITS

Installation kits include shut-off valve, regulators, gauges and fittings as necessary for normal installation.

|                                                                                     | Part Number | Description                                                                     |
|-------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------|
|  | 218316      | Installation kits for Fast-Flo, Fire-Ball or Husky 307, and 716 diaphragm pumps |
|  | 224512      | Installation kits for Mini Fire-Ball 225 and Fire-Ball                          |



## ORDERING OPTIONS

### ADDITIONAL ACCESSORIES

|    | Part Number | Description                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 223696      | Four interchangeable 15 in (38.1 cm) suction wands. OD options: 3/16 in, 1/4 in, 3/8 in, 1/2 in. For use with part 223695 evacuation pump.                                                                                                                                   |
|    | 224702      | 32 in suction wand. 1/2 in OD.                                                                                                                                                                                                                                               |
|    | 224666      | 36 in suction wand storage kit                                                                                                                                                                                                                                               |
|    | 218970      | Tandem drain kit connects two rolling receivers for flow-through draining operation. Kit includes connector hose, shut-off valve, pipe nipple and quick-connect nipple. Instruction manual 307727.                                                                           |
|  | 108491      | Drain hose kit allows rolling used-oil receiver to be drained directly into the used-oil line. Kit is 24 in (0.6 m) in length with camlock coupler on one end.                                                                                                               |
|  | 221007      | Swing-Arm Drain Kit, used for servicing single rolling used-oil receiver (218969). When used with tandem drain kit (218970) it can service two receivers on a single track. Kit includes swivel elbow (108867), connector hose, dust cap (108203) and male adapter (108202). |
|  | 116229      | Oil Tank Monitor. Shuts off air to the pump when tank is full.                                                                                                                                                                                                               |
|  | 223888      | 6 ft (1.8 m) suction hose for ATF and antifreeze. Includes filter screen. Use with 223695.                                                                                                                                                                                   |
|  | 222011      | Grounding clamp for all used-oil handling systems. Includes 25 ft (7.6 m) grounding wire.                                                                                                                                                                                    |
|  | 187359      | 4-way valve 1/2 NPT(F) ports                                                                                                                                                                                                                                                 |



# ACCESSORIES


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| Hose Fittings .....             | 270     |
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| Air/Water Hoses .....           | 272     |
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# AIR REGULATORS AND VALVES


## ORDERING OPTIONS

### AIR FILTER-REGULATOR

|  | Part Number     | Inlet              | Flow Range          | Drain Type     | Maximum Working Pressure |
|-----------------------------------------------------------------------------------|-----------------|--------------------|---------------------|----------------|--------------------------|
|                                                                                   | 133215          | 1/4 in NPT(MBE)    | 20 cfm (550 lpm)    | Semi-automatic | 140 psi (9.65 bar)       |
|                                                                                   | 133216          | 1/4 in NPT(MBE)    | 63 cfm (1,800 lpm)  | Automatic      |                          |
|                                                                                   | 133217          | 3/8 in NPT(MBE)    | 77 cfm (2,200 lpm)  | Automatic      |                          |
|                                                                                   | 133545          | 1/2 in NPT(MBE)    | 106 cfm (3,000 lpm) | Automatic      |                          |
| 133546                                                                            | 3/4 in NPT(MBE) | 149 cfm (4200 lpm) | Automatic           |                |                          |

### FRL COMBINATION UNITS


Each includes filter, regulator, pressure gauge, lubricator and connection fittings.

|  | Part Number | Inlet           |
|------------------------------------------------------------------------------------|-------------|-----------------|
|                                                                                    | 110149      | 1/4 in NPT(FBE) |
|                                                                                    | 110150      | 3/8 in NPT(FBE) |
|                                                                                    | 217072      | 1/2 in NPT(FBE) |
|                                                                                    | 217073      | 3/4 in NPT(FBE) |


### BLEED-TYPE AIR SHUT-OFF VALVES

Closes air inlet to pump and relieves trapped air pressure down line from valve. Recommended for each pump drop line.

Note: Be certain to install correctly. If installed backwards air will constantly escape from the valve. Maximum pressure of 250 psi (17 bar).

|  | Thread                     | 1/4 in | 3/8 in | 1/2 in | 3/4 in |
|-------------------------------------------------------------------------------------|----------------------------|--------|--------|--------|--------|
|                                                                                     | NPT(FBE)                   | 110223 | 110224 | 110225 | 110226 |
|                                                                                     | NPT(MXF)<br>inlet x outlet | -      | 113333 | 107142 | 107141 |

### BALL VALVE-TYPE AIR SHUT-OFF VALVE – NON-PRESSURE RELIEVING

|  | Part Number | Inlet                         | Maximum Working Pressure |
|-------------------------------------------------------------------------------------|-------------|-------------------------------|--------------------------|
|                                                                                     | 208390      | 1/4 in NPT(MBE)               | 500 psi                  |
|                                                                                     | 208393      | 3/8 in NPT(MBE)               | 500 psi                  |
|                                                                                     | 208630      | 1/2 in NPT(M) x 3/8 in NPT(F) | 500 psi                  |
|                                                                                     | 109077      | 3/4 in NPT(FBE)               | 600 psi                  |
|                                                                                     | 118464      | 1 NPT(FBE)                    | 600 psi                  |




# AIR VALVES

## ORDERING OPTIONS


### AIR NEEDLE VALVE

Controls pump speed by restricting air flow to pump or other air-operated equipment.

|  | Part Number | Inlet          | Outlet         |
|-----------------------------------------------------------------------------------|-------------|----------------|----------------|
|                                                                                   | 205090      | 1/4 in NPSM(M) | 1/4 in NPSM(F) |
|                                                                                   | 206264      | 1/4 in NPT(M)  | 1/8 in NPT(F)  |
|                                                                                   | 205528      | 1/8 in NPT(M)  | 1/8 in NPT (F) |


### AIR PRESSURE RELIEF VALVE

Prevents pump from operating beyond recommended working pressure by opening at a pre-set maximum air pressure.

|  | Part Number | Maximum Pressure Rating | Thread        |
|------------------------------------------------------------------------------------|-------------|-------------------------|---------------|
|                                                                                    | 110065      | 60 psi (4 bar)          | 1/4 in NPT(M) |
|                                                                                    | 103347      | 100 psi (6.9 bar)       | 1/4 in NPT(M) |


### AIR PRESSURE GAUGE

Allows visual check of air pressure being supplied to the pump. Rated to 200 psi (14 bar)

|  | Part Number | Inlet         | Color  |
|-------------------------------------------------------------------------------------|-------------|---------------|--------|
|                                                                                     | 110319      | 1/8 in NPT(M) | Black  |
|                                                                                     | 100960      | 1/4 in NPT(M) | Black  |
|                                                                                     | 101180      | 1/4 in NPT(M) | Chrome |


### AIR MANIFOLD

Supply several pumps from one supply line. Larger port delivery ensures adequate air flow to all pumps.

|  | Part Number | Inlet Ports | Inlet Thread  | Outlet Thread | Maximum Pressure Rating |
|-------------------------------------------------------------------------------------|-------------|-------------|---------------|---------------|-------------------------|
|                                                                                     | 158990      | 2           | 1/2 in NPT(F) | 3/8 in NPT(F) | 5,000 psi               |

### RUNAWAY VALVE

Prevents pump damage by automatically closing the air line to stop the pump when a runaway pump condition occurs.


|  | Part Number | Inlet           |
|-------------------------------------------------------------------------------------|-------------|-----------------|
|                                                                                     | 224040      | 3/4 in NPT(FBE) |

# HOSE FITTINGS




## ORDERING OPTIONS

### BLOW GUNS

Safety Blow Gun tip swivels freely and cannot be removed. Tip pressure will not exceed 30 psi (2 bar), adequate for cleaning. Maximum working pressure 150 psi (10 bar). Use with coupler 208536.


|  | Part Number | Description  | Inlet         |
|-----------------------------------------------------------------------------------|-------------|--------------|---------------|
|                                                                                   | 236211      | Air blow gun | 1/4 in NPT(F) |

### TIRE INFLATORS

|    | Part Number | Description                         | Includes   |                        |                   |               |
|-------------------------------------------------------------------------------------|-------------|-------------------------------------|------------|------------------------|-------------------|---------------|
|                                                                                     |             |                                     | 12 in Hose | Swivel Dual-Foot Chuck | Straight-On Chuck | Pop-Out Gauge |
|   | 236205      | Heavy-Duty Tire-Inflator            | Yes        | Yes                    | -                 | Yes           |
|  | 236206      | Passenger Car Tire Inflator         | Yes        | -                      | Yes               | Yes           |
|                                                                                     | 218545      | Tire Chuck with 1/4 in NPT(F) inlet | -          | -                      | -                 | -             |

### WATER VALVE

Water/Antifreeze Bib is a durable, full-volume dispense nozzle for water, antifreeze and windshield washer fluid. Nitrile rubber seals.

|  | Part Number | Inlet         | Pressure Rating |
|-------------------------------------------------------------------------------------|-------------|---------------|-----------------|
|                                                                                     | 180685      | 1/4 in NPT(F) | 100 psi (7 bar) |



# LUBRICATION HOSES

## ORDERING OPTIONS

### HEAVY-DUTY REINFORCED LUBRICATION HOSES

For use with grease, oil and undercoating material. Hoses are black, male connections at both ends. Lubrication hoses listed are grounded for static electrical discharge.

|                                                                                     | ID Inch (mm)   | Max PSI (bar) | Hose Length    | Fitting             |                     | Part Number   |     |        |
|-------------------------------------------------------------------------------------|----------------|---------------|----------------|---------------------|---------------------|---------------|-----|--------|
|                                                                                     |                |               |                | End 1 Thread NPT(M) | End 2 Thread NPT(M) |               |     |        |
|  | 1/4 (6.44)     | 5,000 (345)   | 12 in (0.3 m)  | 1/8                 | 1/8                 | 109145        |     |        |
|                                                                                     |                |               | 30 in (0.8 m)  |                     |                     | 109148        |     |        |
|                                                                                     |                |               | 24 in (0.8 m)  | 3/8                 | 3/8                 | 109147        |     |        |
|                                                                                     |                |               | 48 in (1.2 m)  |                     |                     | 1/4           | 1/4 | 109149 |
|                                                                                     |                |               | 72 in (1.8 m)  | 109150              |                     |               |     |        |
|                                                                                     |                |               | 12 ft (3.6 m)  | 109151              |                     |               |     |        |
|                                                                                     |                |               | 15 ft (4.6 m)  | 109152              |                     |               |     |        |
|                                                                                     |                |               | 20 ft (6.1 m)  | 109153              |                     |               |     |        |
|                                                                                     |                |               | 25 ft (7.6 m)  | 109154              |                     |               |     |        |
|                                                                                     |                |               | 35 ft (10.6 m) | 3/8                 | 3/8                 |               |     | 109156 |
|                                                                                     |                |               | 40 ft (12.2 m) |                     |                     |               |     | 109157 |
|                                                                                     |                |               | 50 ft (15.3 m) |                     |                     | 109158        |     |        |
|                                                                                     |                |               | 3/8 (9.5)      | 4,000 (276)         | 12 in (0.3 m)       | 1/4           | 1/2 | 109160 |
|                                                                                     |                |               |                |                     | 24 in (0.62 m)      |               |     | 109161 |
|                                                                                     | 48 in (1.2 m)  | 3/8           |                |                     | 3/8                 | 109162        |     |        |
|                                                                                     | 72 in (1.8 m)  |               |                |                     |                     | 109163        |     |        |
|                                                                                     | 15 ft (4.6 m)  | 1/4           |                |                     | 1/4                 | 109165        |     |        |
|                                                                                     | 40 ft (12.2 m) |               |                |                     |                     | 109169        |     |        |
|                                                                                     | 50 ft (15.3 m) |               |                |                     |                     | 109170        |     |        |
|                                                                                     | 1/2 (12.7)     | 3,000 (207)   | 15 in (0.4 m)  | 1/2                 | 1/2                 | 110069        |     |        |
| 18 in (0.5 m)                                                                       |                |               | 220598         |                     |                     |               |     |        |
| 54 in (1.4 m)                                                                       |                |               | 220600         |                     |                     |               |     |        |
| 72 in (1.8 m)                                                                       |                |               | 220591         |                     |                     |               |     |        |
| 10 ft (3.1 m)                                                                       |                |               | 220590         |                     |                     |               |     |        |
| 16 ft (4.9 m)                                                                       |                |               | 220592         |                     |                     |               |     |        |
| 20 ft (6.1 m)                                                                       |                |               | 220593         |                     |                     |               |     |        |
| 25 ft (7.6 m)                                                                       |                |               | 220608         |                     |                     |               |     |        |
| 40 ft (12.2 m)                                                                      |                |               | 221092         |                     |                     |               |     |        |
| 50 ft (15.3 m)                                                                      |                |               | 221093         |                     |                     |               |     |        |
| 75 ft (22.9 m)                                                                      |                |               | 3/4            |                     |                     | 237861        |     |        |
| 3/4 (19.1)                                                                          |                |               | 2,250 (155)    |                     |                     | 18 in (0.4 m) | 3/4 | 3/4    |
|                                                                                     |                |               |                | 72 in (1.8 m)       | 109105              |               |     |        |
|                                                                                     | 10 ft (3.0 m)  | 111010        |                |                     |                     |               |     |        |


ACCESSORIES

# AIR/WATER HOSES

## ORDERING OPTIONS

### AIR/WATER HOSES

For use with low pressure air and water. Hoses are male NPT at both ends.

|                                                                                    | ID Inch<br>(mm)                    | Max PSI<br>(bar) | Hose Length    | Fitting             |                     | Part Number |
|------------------------------------------------------------------------------------|------------------------------------|------------------|----------------|---------------------|---------------------|-------------|
|                                                                                    |                                    |                  |                | End 1 Thread NPT(M) | End 2 Thread NPT(M) |             |
|  | Fabric-Reinforced<br>1/4<br>(6.44) | 180<br>(12.4)    | 18 in (0.5 m)  | 1/4                 | 1/4                 | 109123      |
|                                                                                    |                                    |                  | 4 ft (1.2 m)   |                     |                     | 109124      |
|                                                                                    |                                    |                  | 6 ft (1.8 m)   |                     |                     | 109125      |
|                                                                                    |                                    |                  | 10 ft (3.1 m)  |                     |                     | 109126      |
|                                                                                    |                                    |                  | 25 ft (7.6 m)  |                     |                     | 109127      |
|                                                                                    |                                    |                  | 40 ft (12.2 m) |                     |                     | 109128      |
|                                                                                    |                                    |                  | 40 ft (12.2 m) | 3/8                 | 1/4                 | 218491      |
|                                                                                    | 3/8<br>(9.5)                       | 180<br>(12.4)    | 18 in (0.5 m)  | 3/8                 | 3/8                 | 204560      |
|                                                                                    |                                    |                  | 4 ft (1.2 m)   |                     |                     | 109130      |
|                                                                                    |                                    |                  | 6 ft (1.8 m)   |                     |                     | 203320      |
|                                                                                    |                                    |                  | 10 ft (3.1 m)  | 109131              |                     |             |
|                                                                                    |                                    |                  | 16 ft (4.9 m)  | 1/4                 | 3/8                 | 110326      |
|                                                                                    |                                    |                  | 25 ft (7.6 m)  | 3/8                 | 1/2                 | 109132      |
|                                                                                    |                                    |                  | 40 ft (12.2 m) |                     |                     | 109134      |
|                                                                                    |                                    |                  | 60 ft (18.3 m) |                     |                     | 109135      |
|                                                                                    | 1/2<br>(12.7)                      | 180<br>(12.4)    | 22 in (0.56 m) | 1/2                 | 1/2                 | 218093      |
|                                                                                    |                                    |                  | 4 ft (1.2 m)   |                     |                     | 110046      |
|                                                                                    |                                    |                  | 6 ft (1.8 m)   |                     |                     | 205418      |
|                                                                                    |                                    |                  | 10 ft (3.1 m)  |                     |                     | 214656      |
|                                                                                    | 1/2<br>(12.7)                      | 300<br>(20.7)    | 25 ft (7.6 m)  | 1/2                 | 1/2                 | 248312      |
|                                                                                    |                                    |                  | 50 ft (15.2 m) |                     |                     | 248313      |
| 3/4<br>(19.1)                                                                      | 180<br>(12.4)                      | 18 in (0.5 m)    | 3/4            | 3/4                 | 110047              |             |
|                                                                                    |                                    | 4 ft (1.2 m)     |                |                     | 158554              |             |
|                                                                                    |                                    | 6 ft (1.8 m)     |                |                     | 208610              |             |
|                                                                                    |                                    | 10 ft (3.1 m)    |                |                     | 214955              |             |
|                                                                                    |                                    | 25 ft (7.6 m)    |                |                     | 208611              |             |




# QUICK-CONNECT FITTINGS

## ORDERING OPTIONS


### QUICK-CONNECT COUPLER

Permits quick, convenient attachment of air supply hoses.

|  | Part Number | Inlet         | Body Size |
|-----------------------------------------------------------------------------------|-------------|---------------|-----------|
|                                                                                   | 208536      | 1/4 in NPT(F) | 1/4 in    |
|                                                                                   | 110198      | 3/8 in NPT(F) | 1/4 in    |
|                                                                                   | 110199      | 1/2 in NPT(F) | 3/8 in    |
|                                                                                   | 110200      | 3/4 in NPT(F) | 1/2 in    |

### QUICK-CONNECT NIPPLE


Allows quick attachment of air supply hoses to pump motor.

|  | Part Number | Inlet         | Body Size |
|-----------------------------------------------------------------------------------|-------------|---------------|-----------|
|                                                                                   | 169967      | 1/4 in NPT(F) | 1/4 in    |
|                                                                                   | 169970      | 1/4 in NPT(M) | 1/4 in    |
|                                                                                   | 169971      | 3/8 in NPT(M) | 1/4 in    |
|                                                                                   | 110196      | 1/2 in NPT(M) | 3/8 in    |
|                                                                                   | 110197      | 3/4 in NPT(M) | 1/2 in    |

# ADAPTERS AND FITTINGS

## ORDERING OPTIONS

### BUSHINGS AND PIPE ADAPTERS – REDUCING, STANDARD AND EXPANDING

|  | Outlet     | Inlet      |            |            |            |            |          |
|-----------------------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|----------|
|                                                                                   |            | 1/8 in NPT | 1/4 in NPT | 3/8 in NPT | 1/2 in NPT | 3/4 in NPT | 1 in NPT |
|                                                                                   | 1/8 in NPT | 150171     | 159840     | 156580     | -          | -          | -        |
|                                                                                   | 1/4 in NPT | 100030     | -          | 150287     | 159842     | -          | -        |
|                                                                                   | 3/8 in NPT | -          | 159841     | 150286     | 156022     | -          | -        |
|                                                                                   | 1/2 in NPT | -          | 100206     | 100081     | -          | 168595     | -        |
|                                                                                   | 3/4 in NPT | -          | 100615     | 100505     | 100896     | -          | -        |
|                                                                                   | 1 in NPT   | -          | -          | -          | 100380     | 158586     | -        |


### STREET ELBOWS

|  | Part Number | Inlet/Outlet |
|-----------------------------------------------------------------------------------|-------------|--------------|
|                                                                                   | 100840      | 1/4 in NPT   |
|                                                                                   | 155699      | 3/8 in NPT   |
|                                                                                   | 158683      | 1/2 in NPT   |
|                                                                                   | 176393      | 3/4 in NPT   |

### COUPLING – STANDARD

|  | Part Number | Inlet      |
|-------------------------------------------------------------------------------------|-------------|------------|
|                                                                                     | 100451      | 1/8 in NPT |
|                                                                                     | 113093      | 1/4 in NPT |
|                                                                                     | 162024      | 3/8 in NPT |
|                                                                                     | 158581      | 1/2 in NPT |
|                                                                                     | 100385      | 3/4 in NPT |
|                                                                                     | 100474      | 1 in NPT   |


### HEX NIPPLES – STANDARD AND REDUCING

|  | Male End 2 | Male End 1 |            |            |            |          |
|-------------------------------------------------------------------------------------|------------|------------|------------|------------|------------|----------|
|                                                                                     |            | 1/4 in NPT | 3/8 in NPT | 1/2 in NPT | 3/4 in NPT | 1 in NPT |
|                                                                                     | 1/8 in NPT | 151519     | 156296     | 159239     | -          | -        |
|                                                                                     | 1/4 in NPT | 156971     | 165198     | 162449     | -          | -        |
|                                                                                     | 3/8 in NPT | -          | 156849     | -          | 194048     | -        |
|                                                                                     | 1/2 in NPT | -          | -          | 158491     | 157191     | -        |
|                                                                                     | 3/4 in NPT | -          | -          | -          | 175013     | 158555   |








## ORDERING OPTIONS

### SQUARE HEAD PLUG

|  | Part Number | Inlet      |
|-----------------------------------------------------------------------------------|-------------|------------|
|                                                                                   | 111697      | 1/4 in NPT |
|                                                                                   | 100040      | 3/8 in NPT |
|                                                                                   | 100737      | 1/2 in NPT |
|                                                                                   | 104663      | 3/4 in NPT |






### SWIVEL ADAPTERS\*

|           |            |  |  |  |  |  |
|-----------|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Rigid End | Swivel End | Straight Swivel Adapter (m x f)                                                   | Straight Swivel Adapter (f x f)                                                   | 90° Swivel Adapter (f x f)                                                        | 90° Swivel Adapter (m x f)                                                         | 45° Swivel Adapter (m x f)                                                          |
| 1/8 in    | 1/4 in     | 208434                                                                            | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   |
| 1/4 in    | 1/4 in     | 156823                                                                            | 155570                                                                            | 157676                                                                            | 155541                                                                             | 114030                                                                              |
|           | 3/8 in     | 157705                                                                            | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   |
| 3/8 in    | 1/4 in     | -                                                                                 | 159153                                                                            | -                                                                                 | 155495                                                                             | -                                                                                   |
|           | 3/8 in     | 155665                                                                            | 156173                                                                            | 155677                                                                            | 155494                                                                             | 161889                                                                              |
|           | 1/2 in     | 162505                                                                            | -                                                                                 | 159801                                                                            | 217430                                                                             | -                                                                                   |
| 1/2 in    | 1/4 in     | -                                                                                 | 155653                                                                            | -                                                                                 | -                                                                                  | -                                                                                   |
|           | 3/8 in     | 158256                                                                            | 161077                                                                            | -                                                                                 | 161037                                                                             | -                                                                                   |
|           | 1/2 in     | 156684                                                                            | 155865                                                                            | 157416                                                                            | 155470                                                                             | 222297                                                                              |
| 3/4 in    | 3/4 in     | 157785                                                                            | 156172                                                                            | 156589                                                                            | 160327                                                                             | 105281                                                                              |
| 1 in      | 3/4 in     | 202965                                                                            | -                                                                                 | -                                                                                 | -                                                                                  | -                                                                                   |
|           | 1 in       | 160022                                                                            | 158383                                                                            | -                                                                                 | -                                                                                  | -                                                                                   |

\*Not a "live" swivel, position is stationary after tightened.

### TUBE FITTINGS

Maximum pressure rating of 3,000 psi (207 bar) with appropriate tubing wall thickness.

|                                                                                     | Description                 | Inlet      | Tube OD |        |
|-------------------------------------------------------------------------------------|-----------------------------|------------|---------|--------|
|                                                                                     |                             |            | 5/8 in  | 7/8 in |
|  | Tube Union Flow 90° Elbow   | -          | 101012  | 101376 |
|  | Straight Tube Union         | -          | 101009  | 101340 |
|  | Male Connector              | 3/4 in NPT | -       | 101339 |
|  | Straight Female Connector   | 1/2 in NPT | 101008  | -      |
|  | Tube Tee with Female Branch | 5/8 in NPT | 101013  | -      |

# GRACO EQUIPMENT WARRANTY

## STANDARD GRACO WARRANTY

### 1-YEAR WARRANTY POLICY

Graco warrants all equipment manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale by an authorized Graco distributor to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve (12) months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective.

This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations. This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

THIS WARRANTY IS EXCLUSIVE, AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

Graco makes no warranty, and disclaims all implied warranties of merchantability and fitness for a particular purpose in connection with accessories, equipment, materials or components sold but not manufactured by Graco. These items sold, but not manufactured, by Graco (such as electric motors, switches, hose, etc.) are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance, or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco, or otherwise.

# GRACO VEHICLE SERVICE EQUIPMENT EXTENDED WARRANTY



Graco warrants all equipment referenced in this document that is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the distributor. Graco will, for a period as defined in the table on the opposite page from the date of sale, repair or replace equipment covered by this warranty and determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for, general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser, transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which may include the costs of parts, labor and transportation.

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including but not limited to incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within one (1) year post the warranty period.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ANY ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO.

These items sold but not manufactured by Graco (such as electric motors, switches, etc.) are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

In no event will Graco be liable for indirect, incidental, special or consequential damages resulting from Graco supplying equipment hereunder, or the furnishing, performance or use of any products or other goods sold hereto, whether due to a breach of contract, breach of warranty, the negligence of Graco or otherwise.

## FOR GRACO CANADA CUSTOMERS

The parties acknowledge that they have required that the present document, as well as all documents, notices and legal proceedings entered into, given or instituted pursuant hereto or relating directly or indirectly hereto, be drawn up in English.

Les parties reconnaissent avoir convenu que la rédaction du présente document sera en Anglais, ainsi que tous documents, avis et procédures judiciaires exécutés, donnés ou intentés à la suite de ou en rapport, directement ou indirectement, avec les procédures concernées.

# GRACO VEHICLE SERVICE EQUIPMENT EXTENDED WARRANTY (CONT.)

|                                                                                   | Products                                                                                     | Warranty Period                                                    |         |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------|
|                                                                                   | <b>Oil King, Coolant King, and Oil Ace</b>                                                   | 5 Years                                                            |         |
|                                                                                   | <b>Pulse Fluid Management Hubs, TLMs, PACs and Extenders</b>                                 | 2 Years                                                            |         |
| REELS                                                                             | <b>Cord and Light Reels</b>                                                                  | 2 Years                                                            |         |
|                                                                                   | Electrical Components                                                                        | 1 Year                                                             |         |
|                                                                                   | <b>LD Series Hose Reels</b>                                                                  | 5 Years                                                            |         |
|                                                                                   | Wear Parts, including but not limited to hose, seals, swivel seats and roller guides         | 1 Year                                                             |         |
|                                                                                   | <b>SDX Series Hose Reels</b>                                                                 | 7 Years                                                            |         |
|                                                                                   | Power Springs                                                                                | 3 Years                                                            |         |
|                                                                                   | Wear Parts, including but not limited to hose, seals, swivel seats and roller guides         | 1 Year                                                             |         |
|                                                                                   | <b>XD Series Hose Reels</b>                                                                  | 7 Years                                                            |         |
|                                                                                   | Power Springs                                                                                | 3 Years                                                            |         |
|                                                                                   | Wear Parts, including but not limited to hose, seals, swivel seats, roller guides and motors | 1 Year                                                             |         |
|                                                                                   | METERS                                                                                       | <b>Mechanical Meters</b>                                           | 5 years |
|                                                                                   |                                                                                              | Wear parts, including but not limited to o-rings, seals and valves | 1 Year  |
| <b>LD Preset Meters</b>                                                           |                                                                                              | 5 years                                                            |         |
| Electronics                                                                       |                                                                                              | 2 Years                                                            |         |
| Wear parts, including but not limited to o-rings, seals and valves                |                                                                                              | 1 Year                                                             |         |
| <b>SD Meters and Valves</b>                                                       |                                                                                              | 5 Years                                                            |         |
| Electronics                                                                       |                                                                                              | 3 Years                                                            |         |
| Wear parts, including but not limited to o-rings, seals and valves                |                                                                                              | 1 Year                                                             |         |
| <b>EM Meters and Valves / Pulse Meters and Valves</b>                             |                                                                                              | 5 Years                                                            |         |
| Electronics                                                                       |                                                                                              | 3 Years                                                            |         |
| Wear parts, including but not limited to o-rings, seals, valves and trigger locks |                                                                                              | 1 Year                                                             |         |
| PUMPS                                                                             |                                                                                              | <b>LD Oil/Grease Pumps</b>                                         | 5 Years |
|                                                                                   | Wear Parts, including but not limited to o-rings, packings and seals                         | 1 Year                                                             |         |
|                                                                                   | Hoses with pump packages                                                                     | 1 Year                                                             |         |
|                                                                                   | <b>AODD Pumps</b>                                                                            | 5 Years                                                            |         |
|                                                                                   | Wear Parts, including but not limited to o-rings, packings and seals                         | 1 Year                                                             |         |
|                                                                                   | Hoses with pump packages                                                                     | 1 Year                                                             |         |
|                                                                                   | <b>Mini Fire-Ball 225 and Fire-Ball 300 Oil and Grease Pumps</b>                             | 7 Years                                                            |         |
|                                                                                   | Wear Parts, including but not limited to o-rings, packings and seals                         | 1 Year                                                             |         |
|                                                                                   | Hoses with pump packages                                                                     | 1 Year                                                             |         |
|                                                                                   | <b>Fire-Ball 425 Oil and Grease Pumps</b>                                                    | 10 Years                                                           |         |
|                                                                                   | Wear Parts, including but not limited to o-rings, packings and seals                         | 1 Year                                                             |         |
|                                                                                   | Hoses with pump packages                                                                     | 1 Year                                                             |         |
|                                                                                   | <b>Fast-Ball and Fast-Flo Oil Pumps</b>                                                      | 5 Years                                                            |         |
|                                                                                   | <b>LD Blue and SD Blue Diesel Exhaust Fluid Pumps</b>                                        | 2 Years                                                            |         |

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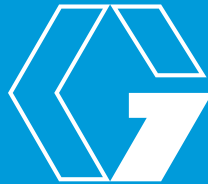
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