

# FILL-RITE®

The Most Trusted Name in Pumps and Meters

## Product Catalog



 **Tuthill**

Made in  
  
USA



## Tuthill - Fill-Rite/Sotera Division

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## The Tuthill Story

Tuthill Corporation is a diversified global manufacturing company, developing and supplying industrial products for our value-minded customers in over 150 markets.

Our culture is based on the Tuthill Business System (TBS); our version of lean manufacturing. TBS coupled with the Conscious Company initiatives of personal continuous improvement, through which Tuthill encourages its employees to reach for a higher level of greatness, allows for excellence not only in the products we manufacture but in the people we employ and customers we serve.

The end result is a company you can depend on, one that eliminates waste in our processes and provides superior products, quality and value for our customers.

Tuthill is celebrating 50 years of manufacturing a comprehensive product line of chemical and fuel transfer products well suited for any dispensing and metering applications. The Fill-Rite and Sotera products are recognized internationally as the most dependable, durable, and rugged products available.

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# Pump Overview

## Tuthill Rotary Vane “Point of Use” Transfer Pumps

It's no secret that the transfer of fuels is one of the foundational components that keeps our world moving. The needs of the Agricultural, Construction, and Transportation industries have long been met by Tuthill's complete line of Fill-Rite rotary vane pumps. The rugged cast iron construction of this product is unparalleled in durability, and has become the standard in these industries. If you work in or deal with these industries, whether on a farm, construction site, or in fleet service, odds are very high that you rely every day on the Fill-Rite branded products to keep you moving.

Recent changes in EPA emission requirements for both on and off road diesel powered equipment have brought about a new demand for Diesel Exhaust Fluid, or DEF. To meet the demands of this rapidly expanding market, Tuthill has developed a range of Sotera Stainless steel rotary vane pumps designed specifically to deliver maximum compatibility and high flow requirements for dispensing DEF. Manufactured in the Ft. Wayne, Indiana Fill-Rite production facilities, every Sotera Stainless Steel Rotary Vane pump is built to the same stringent quality standards as their Fill-Rite siblings. Robust design and manufacturing to extreme tolerances means the best possible product. Our customers expect nothing less.



## Tuthill Diaphragm Pumps

With a primary focus on transfer and point of use dispensing of Agricultural Chemicals and basic transfer of fuels, Tuthill has been producing electrically powered diaphragm pumps for 20 years. These stalwarts of the agricultural industry are available in both AC and DC powered models, making them ideal for stationary and mobile applications.

Building on a heritage of innovation and quality, Tuthill has recently launched the start of a new range of Sotera Air Operated Diaphragm Pumps. With initial offerings of the most popular 1/2" and 1" sizes (2" and 3" models to follow), these pumps will provide effective and efficient transfer of engine oils and other service chemicals. Boasting the highest flow rates available in the category and a wide range of materials of construction, Sotera is the right solution for your chemical transfer needs.





FR1210C



FR4210D



SD1202



FR1612

## Fill-Rite's Complete Range of Mobile DC Fuel Transfer Pumps for Gasoline/Diesel/B20/E-15/Kerosene

### FR1200 Series · Heavy Duty

**15 GPM**  
**12 Volt**

- 8' Lift
- For In-Bed Truck Tanks
- For Mobile Tanks used in Farming and Construction
- Great Emergency Response Pump

		Top Selling Model		Top Selling Model	
	FR1204	FR1210C	FR1210CA	FR1211C	FR1211CL
Flow Rate (GPM/LPM)	Up to 15/57	Up to 15/57	Up to 15/57	Up to 15/57	Up to 15/57
Voltage	12 Volt	12 Volt	12 Volt	12 Volt	12 Volt
Inlet/Outlet	1"/3/4"	1"/3/4"	1"/3/4"	1"/3/4"	1"/3/4"
Mount	2" NPT	2" NPT	2" NPT	2" NPT	2" NPT
Mats of Const - Housing	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Horse Power	1/4	1/4	1/4	1/4	1/4
Power Cord Length	-	18'	18'	18'	18'
Amps	20	20	20	20	20
Duty Cycle	30 min	30 min	30 min	30 min	30 min
Certifications	UL/cUL Motor	UL/cUL Motor	UL/cUL Motor	UL/cUL Motor	UL/cUL Motor
Included Accessories	Pump Only	20 - 34 3/4" Steel Telescoping Suction Pipe, 3/4" x 12' Hose, 3/4" Manual Nozzle	20 - 34 3/4" Steel Telescoping Suction Pipe, 3/4" x 12' Hose, 3/4" Auto Nozzle	20 - 34 3/4" Steel Telescoping Suction Pipe, 3/4" x 12' Hose, 3/4" Manual Nozzle, Mechanical Meter (Gal)	20 - 34 3/4" Steel Telescoping Suction Pipe, 3/4" x 12' Hose, 3/4" Manual Nozzle, Mechanical Meter (Liter)

# DC Transfer Pumps

## FR4200 Series · Heavy Duty

- 20 GPM** • 25% Higher Flow • 8' Lift  
**12 Volt** • For In-Bed Truck Tanks and Mobile Tanks  
 • Great Emergency Response Pump

### Top Selling Model

	FR4204	FR4210D	FR4211D
Flow Rate (GPM/LPM)	Up to 20/75	Up to 20/75	Up to 20/75
Voltage	12 Volt	12 Volt	12 Volt
Inlet/Outlet	1" / 1"	1" / 1"	1" / 1"
Mount	2" NPT	2" NPT	2" NPT
Matls of Const - Housing	Cast Iron	Cast Iron	Cast Iron
Horse Power	1/4	1/4	1/4
Power Cord Length	-	18'	18'
Amps	19	19	19
Duty Cycle	30 min	30 min	30 min
Certifications	UL/cUL	UL/cUL	UL/cUL Motor
Included Accessories	Pump Only	20 - 34 3/4" Steel Telescoping Suction Pipe, 1" x 12' Hose, 1" Manual Nozzle (For 1" Automatic Noz order FR4210DB)	20 - 34 3/4" Steel Telescoping Suction Pipe, 1" x 12' Hose, 1" Manual Nozzle, Mechanical Meter (Gal)

## FR3200 Series · Heavy Duty

- 25 GPM** • Highest Flow DC Pump in the Industry  
**12 Volt** • For Remote Fueling of Large Ag and Construction Equipment

## Coming Soon



## Standard Duty - 12 Volt

### SD1200 Series

- Weekend Warrior
- For In-Bed Truck and Small Mobile Tanks
- Great Emergency Pump

### FR1600 Series

- Extremely Portable
- Diesel Only
- For Drums and Totes

### FR2400 Series · Heavy Duty

- 15 GPM** • For 24 Volt Battery Applications  
**24 Volt** • For Mobile Tanks used in Farming and Construction

	SD1202	FR1614	FR2410C	FR2411CL
Flow Rate (GPM/LPM)	Up to 13/49	Up to 10/38	Up to 15/57	Up to 15/57
Voltage	12 Volt	12 Volt	24 Volt	24 Volt
Inlet/Outlet	1" / 3/4"	3/4" / 3/4"	1" / 3/4"	1" / 3/4"
Mount	2" NPT	-	2" NPT	2" NPT
Matls of Const - Housing	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Horse Power	1/4	1/4	1/4	1/4
Power Cord Length	15'	6 1/2'	18'	18'
Amps	20	20	10	10
Duty Cycle	30 min	30 min	30 min	30 min
Certifications	UL/cUL Motor	-	UL/cUL Motor	UL/cUL Motor
Included Accessories	15 1/4" - 43 1/4" PVC Two - Piece Suction Pipe, 3/4" x 10' Hose, 3/4" Manual Nozzle (For 3/4" Automatic Nozzle order SD1202A)	8' PVC Suction Hose, 3/4" x 8' Hose, 3/4" Manual Poly Nozzle (For Pump Only order FR1612)	20 - 34 3/4" Steel Telescoping Suction Pipe, 3/4" x 12' Hose, 3/4" Manual Nozzle	20 - 34 3/4" Steel Telescoping Suction Pipe, 3/4" x 12' Hose, 3/4" Manual Nozzle, Mechanical Meter (Liter)





## Fill-Rite's Complete Range of AC Fuel Transfer Pumps

for Gasoline/Diesel/B20/E-15/Kerosene

### SD600 Series · Standard Duty

- 13 GPM** • 8' Lift  
**12 Volt** • For use with Skid Tanks  
 • Perfect for the Weekend Warrior

### FR600 Series · Heavy Duty

- 15 GPM** • 8' Lift  
**12 Volt** • For use with Skid Tanks  
 • For Very Small Fleets

	SD602	FR610C
Flow Rate (GPM/LPM)	Up to 13/49	Up to 15/57
Voltage	115 Volt	115 Volt
Inlet/Outlet	1"/3/4"	1"/3/4"
Bung Mount	2" NPT	2" NPT
Mats of Const - Housing	Cast Iron	Cast Iron
Horse Power	1/4	1/4
HZ	60	60
Amps	1.5	1.5
Duty Cycle	30 Min	30 Min
Certification	UL/cUL	UL/cUL
Included Accessories	Three Piece PVC Suction Pipe, 3/4" x 12' Hose, 3/4" Manual Nozzle	20 - 34 3/4" Steel Telescoping Suction Pipe, 3/4" x 12' Hose, 3/4" Manual Nozzle (For Pump Only order FR604) (For 3/4" Automatic Nozzle order FR610CA)

# AC Transfer Pumps

## FR700 Series · Heavy Duty

**20 GPM**

- 10' Lift (Gasoline) 12' Lift (Diesel)
- For use with Above Ground and Underground Tanks

**115 Volt**

- For Small Fleets

	Top Selling Model	Top Selling Model			
	FR700V	FR701V	FR701VL	FR710VN	FR711VA
Flow Rate (GPM/LPM)	Up to 20/75	Up to 20/75	Up to 20/75	Up to 20/75	Up to 20/75
Voltage	115 Volt	115 Volt	115 Volt	115 Volt	115 Volt
Inlet/Outlet	1 1/4" / 3/4"	1 1/4" / 3/4"	1 1/4" / 3/4"	1 1/4" / 1"	1 1/4" / 1"
Bung Mount	2" NPT	2" NPT	2" NPT	2" NPT	2" NPT
Matls of Const - Housing	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Horse Power	1/3	1/3	1/3	1/3	1/3
HZ	60	60	60	60	60
Amps	5.5	5.5	5.5	5.5	5.5
Duty Cycle	30 Min	30 Min	30 Min	30 Min	30 Min
Certification	UL/cUL	UL/cUL	UL/cUL	UL/cUL	UL/cUL
Included Accessories	3/4" x 12' Hose, 3/4" Manual Nozzle (For Pump Only order FR700VN)	3/4" x 12' Hose, 3/4" Manual Nozzle, Mechanical Meter (Gal)	3/4" x 12' Hose, 3/4" Manual Nozzle, Mechanical Meter (Liter)	Pump Only	1" x 18' Hose, 1" Ultra Hi Flow Auto Nozzle, Mechanical Meter (Gal)

## FR300 Series · Heavy Duty

**35 GPM**

- Diesel Only
- 18' Lift
- For use with Above Ground and Underground Tanks
- 35% Faster Flow

**115/230 Volt**

- For Large Fleets

					New Model
	FR310V	FR311V	FR311VB	FR311VL	FR319VB
Flow Rate (GPM/LPM)	Up to 35/132	Up to 35/132	Up to 35/132	Up to 35/132	Up to 35/132
Voltage	115/230 Volt	115/230 Volt	115/230 Volt	115/230 Volt	115/230 Volt
Inlet/Outlet	1 1/4" / 1"	1 1/4" / 1"	1 1/4" / 1"	1 1/4" / 1"	1 1/4" / 1"
Bung Mount	2" NPT	2" NPT	2" NPT	2" NPT	2" NPT
Matls of Const - Housing	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Horse Power	3/4	3/4	3/4	3/4	3/4
HZ	50/60	50/60	50/60	50/60	50/60
Amps	9.8/4.9/11.4/5.7	9.8/4.9/11.4/5.7	9.8/4.9/11.4/5.7	9.8/4.9/11.4/5.7	9.8/4.9/11.4/5.7
Duty Cycle	30 Min	30 Min	30 Min	30 Min	30 Min
Certification	UL/cUL	UL/cUL	UL/cUL	UL/cUL	UL/cUL Motor
Included Accessories	1" x 12' Hose, 1" Manual Nozzle	1" x 12' Hose, 1" Manual Nozzle, Mechanical Meter (Gal)	1" x 12' Hose, 1" Ultra Hi-Flow Auto Nozzle, Mechanical Meter (Gal)	1" x 12' Hose, 1" Manual Nozzle, Mechanical Meter (Liter)	1" x 18' Hose, 1" Ultra Hi-Flow Auto Nozzle, Digital Meter



FR702VR



FR713V

FR902R



## Fill-Rite's Complete Range of Cabinet Pumps, Meters and Remote Fueling Systems

for Gasoline/Diesel/B20/E-15/Kerosene

### FR 702 Cabinet Pumps and Meters · Heavy Duty

20 GPM

• For Pedestal Mounting or Direct Tank Top Mounting

115/230 Volt

	FR702VR	FR702VLRU	FR702VRU	New Model FR702VRGU
Flow Rate (GPM/LPM)	Up to 20/75	Up to 20/75	Up to 20/75	Up to 20/75
Voltage	115 Volt	115 Volt	115 Volt	230 Volt
Inlet/Outlet	1 1/4" / 3/4"	1 1/4" / 3/4"	1 1/4" / 3/4"	1 1/4" / 3/4"
Bung Mount	2" NPT	2" NPT	2" NPT	2" NPT
Matls of Const - Housing	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Horse Power	1/3	1/3	1/3	1/3
HZ	60	60	60	50
Amps	5.5	5.5	5.5	5.5
Duty Cycle	30 Min	30 Min	30 Min	30 Min
Certification	UL/cUL	UL/cUL	UL/cUL	UL/cUL
Included Accessories	3/4" x 12' Hose, 3/4" Manual Nozzle	Liter Register	Gallon Register	Gallon Register



# Remote Operated Fueling Systems

Fill-Rite's Remote operated Fueling Systems have been specifically designed for taller tank and remote dispense point applications, such as when the tank is behind a secondary containment wall, or any application that requires the pump to be separated from the system due to accessibility.

Remote applications require both a Fill-rite Remote Pump and Cabinet Meter [see below].  
[Refer to the Installation Diagram on page 22]

**Fill-Rite's Remote Pumps** are specifically designed for this application. They are self priming and come to you ready to be mounted to top of fuel tank [recommended location]. The On/Off power required to operate is supplied directly from the meter cabinet. Anti-siphon kit is included - customer installed.

## Remote Pumps · Heavy Duty

**115/230 Volt** • For use with FR902 Cabinet Meters

	FR303V	FR313V	FR713V
Flow Rate [GPM/LPM]	Up to 20/75	Up to 35/132	Up to 20/75
Voltage	115/230 Volt	115/230 Volt	115 Volt
Inlet/Outlet	1 1/4" / 1"	1 1/4"/1"	1 1/4"/ 3/4"
Bung Mount	2" NPT	2" NPT	2" NPT
Matls of Const - Housing	Cast Iron	Cast Iron	Cast Iron
Horse Power	1/2	3/4	1/3
HZ	50/60	50/60	60
Amps	8.2/4.1/9.2/4.6	9.8/4.9/11.4/5.7	5.5
Duty Cycle	30 Min	30 Min	30 Min
Certification	UL/cUL	UL/cUL	UL/cUL

**FR902 Meter Cabinets** are made from 16 gauge steel and powder coated to stand up to the elements. The design incorporates many features that improve initial installation and maintenance. Hood removal requires only the removal of 3 screws and the reset knob, it is pulser ready and all external wiring connections are placed in easy access locations.

## FR902 Cabinet Meters · Heavy Duty

**6-40 GPM** • For use with Remote Pump  
• Can be used with submersible pumps

	FR902R	FR902LR	FR902RU	FR902LRU
Flow Rate [GPM/LPM]	6 - 40 / 23-151	6 - 40 / 23-151	6 - 40 / 23-151	6 - 40 / 23-151
Inlet/Outlet	1"/1"	1"/1"	1"/1"	1"/1"
Meter	4 Digit Mechanical [Gal]	4 Digit Mechanical [Liter]	4 Digit Mechanical [Gal]	4 Digit Mechanical [Liter]
Certification	-	-	UL/cUL	UL/cUL



Tough. Reliable. Long-Lasting. Fill-Rite hand pumps deliver fluids quickly and easily. Whether your transferring gasoline, oil or diesel, select from a variety of Fill-Rite hand pumps. You'll appreciate the trouble free performance of these rugged hand pumps.

### FR150 Piston Series · Heavy Duty

- 3' Lift
- For Drums, Totes, and Barrels
- Vacuum Breaker Included

	Top Selling Model		
	FR152	FR151	FR150
Flow Rate	20 Gal/100 strokes	20 Gal/100 strokes	20 Gallons/100 strokes
Inlet/Outlet	1" / 3/4"	1" / 3/4"	1" / 3/4"
Bung Mount	2" NPT	2" NPT	2" NPT
Mats of Const - Housing	Cast Aluminum	Cast Aluminum	Cast Aluminum
Certification	UL/cUL	UL/cUL	UL/cUL
Compatible Fluids	Gasoline, Diesel Fuel, Light Oil, and Kerosene		
Included Accessoriess	20" - 34 3/4" Steel Telescoping Suction Pipe, 3/4" x 8' Hose, 3/4" Hose-end Spout	20" - 34 3/4" Steel Telescoping Suction Pipe, Pail Spout	Pump Only

# Hand Pumps



## FR112 Rotary Series · Heavy Duty

- 3' Lift
- Vacuum Breaker Included
- For Drums, Totes, and Barrels

	Top Selling Model		
	FR112	FR112C	FR113
Flow Rate	10 Gallons per 100 rev.	10 Gallons per 100 rev.	10 Gallons per 100 rev.
Inlet/Outlet	1" / 3/4"	1" / 3/4"	1" / 3/4"
Bung Mount	2" NPT	2" NPT	2" NPT
Mats of Const - Housing	Cast Aluminum	Cast Aluminum	Cast Aluminum
Certification	UL/cUL	UL/cUL	UL/cUL
Compatible Fluids	Gasoline, Diesel Fuel, Light Oil, and Kerosene		
Included Accessoriess	20" - 34 3/4" Steel Telescoping Suction Pipe, 3/4" x 8' Hose, 3/4" Hose-end Spout (For Pump Only order FR110)	20" - 34 3/4" Steel Telescoping Suction Pipe, 3/4" x 8' Hose, 3/4" Hose-end Spout, Gallon Counter	20" - 34 3/4" Steel Telescoping Suction Pipe, Pail Spout

## Special Use Pumps · Standard Duty

- For Drums, Totes, and Barrels
- Will handle a range of automotive fluids [see compatible fluids below]

	FR31	FR20V	SD62	SD11	SD13
Description	Quart Stroke Pump	Lever Piston	Rotary Pump	Lever Piston	Pail pump
Flow Rate	1 Quart per Stroke	11 oz. per Stroke	7.5 Gal/ 100 strokes	11 oz. per Stroke	8 oz. per Stroke
Inlet/Outlet	1/2" / spout	1" / spout	3/4" / spout	1" / spout	1" / PVC hose
Bung Mount	2" NPT	2" NPT	2" NPT	2" NPT	Mounts in Pail
Mats of Const - Housing	Cast Iron and Steel	Polypropylene	Cast Iron	Steel	PVC
Certification	UL/cUL	-	-	-	-
Compatible Fluids	Gear and lube oil, anti-freeze, petroleum products	Light oils, anti-freeze, coolant, hydraulic oils	Diesel, Kerosene, Machine Oil, Fuel Oil, petroleum products	Light oils, ATF, hydraulic fluid, diesel fuel and kerosene	hydraulic fluid, transmission fluid, motor oil
Included Accessoriess	21" - 36" PVC Telescoping Suction Pipe	PVC Telescoping Suction Pipe	Steel 3 Piece Suction Pipe	Steel Telescoping Suction Pipe	-





SP100-05N-CD-HHH

SP100-05N-PP-SSS

Tuthill is setting a New Standard in Air Operated Pumps. The SP100 is a new evolutionary design that incorporates design characteristics for improved performance and functionality. With 15% more Flow, 62% fewer parts, "Best in Class" efficiency and half the repair time, our SP100 provides the best value in the market today. Choose the configuration to match the application, the SP100 will transfer anything from Lube Oil to detergents to Antifreeze.

	SP100-05N-XX-XXX-X
Max Flowrate (flooded suction)	17.5 gpm (79.56 lpm)
Max Inlet Pressure	100 psi (7bar)
Max Outlet Pressure	100 psi (7 bar)
Air Consumption @ 40psi	0.65 cfm/gal
Displacement/Cycle @ 100psi	0.036 gal (0.14L)
Max Particle Size	3/32" dia (2.4mm)
Noise Level @ 70psi	75.0 db(A) at 60 cpm
Ratio	1:1
Inlet/Outlet	1/2" / 1/2" NPT
Air Inlet	1/4" NPT
Air Exhaust	1/8" NPT
Air Inlet Pressure Range	2-100 psi (0.14-7 bar)
Max Material Inlet Pressure	10 psi (0.69 bar)
Fluid Outlet Pressure Range	2-100 psi (0.14-7 bar)
Max Pump Speed	450 cpm
Max Suction Lift (water w/ Hytrel Balls)	14 ft (4.27 m)

## Fluid Compatibility

**Transmission fluid** – SP100-05N-CD-HHH

**Anti Freeze** – SP100-05N-CD-HHH

**Waste Oil** – SP100-05N-CD-HHH

**New Oil** - SP100-05N-CD-HHH

**Diesel Exhaust Fluid** – SP100-05N-PP-SSS

**Windshield wiper fluid** – SP100-05N-PP-TTP

**Ag Chemicals** - SP100-05N-PP-TTP or SP100-05N-PP-SSS

See AOD accessories on Page 22

**Coming in Mid-2012**  
1" Metallic and Non-Metallic



# AC/DC Electric Diaphragm Pumps



The 400B Series offers proven technology that combines the attributes of an air operated diaphragm pump with the convenience, portability, and efficiency of an electric driven design. The 400B uses less power than other conventional chemical pumps for maximum efficiency.

Our unique design improves fluid handling capabilities with low material sheering, solids handling up to 1/10" and dry-run capabilities. These features make this the ideal waste oil, gear oil, lube oil or hydraulic fluid transfer pump.

The power distribution's unique reciprocating, spring driven, double diaphragm configuration retains constant pressure, regardless of the load. No Internal Bypass required - the pump automatically goes neutral when the end of hose valve is shut off.

	FR205B	FR210B	FR405BEXPX054	FR410B	FR410BEXP	Top Selling Model FR450B *
Flow Rate (GPM/LPM)	Up to 13/49	Up to 13/49	Up to 13/49	Up to 13/49	Up to 13/49	Up to 13/49
Voltage	24 VDC	24 VDC	12 VDC	12 VDC	12 VDC	115 VAC
Inlet/Outlet	1"/1" NPT	1"/1" NPT	1"/1" NPT	1"/1" NPT	1"/1" NPT	1"/1" NPT
Bung Mount	2" NPT	2" NPT	2" NPT	2" NPT	2" NPT	2" NPT
Matls of Const - Housing	Glass filled Poly	Glass filled Poly	Glass filled Poly	Glass filled Poly	Glass filled Poly	Glass filled Poly
Horse Power	1/4	1/4	1/4 Explosion Proof	1/4	1/4 Explosion Proof	1/4
Power Cord Length	15'	15'	15'	15'	15'	6.5'
Amps	10	10	20	20	20	2.5
Duty Cycle	30 min	30 min	30 min	30 min	30 min	30 min
Certification **	UL/cUL Motor	UL/cUL Motor	UL/cUL Motor	-	UL/cUL Motor	-
Included Accessories	Pump Only	20 - 34 3/4" Steel Telescoping Suction Pipe, 1"x12ft Hose, 1" Manual Noz.	Pump Only	20 - 34 3/4" Steel Telescoping Suction Pipe, 1"x12ft Hose, 1" Manual Noz.	20 - 34 3/4" Steel Telescoping Suction Pipe, 1"x12ft Hose, 1" Manual Noz.	20 - 34 3/4" Steel Telescoping Suction Pipe, 1"x12ft Hose, 1" Manual Noz.

\* Visit [www.fillrite.com](http://www.fillrite.com) for more configurations

\*\* UL/cUL Listed, not for gasoline service



FRSD120800MN



SV8ARDNSD



825D075BSPPS



SV20A1NSD (shown with mounting plate and meter)

Sotera Professional Series Rotary Vane pumps are perfect for DEF transfer pumping applications. Stainless steel construction and Viton® seals ensure clean, dependable handling of DEF products with durable, long-lasting pump performance. Complete your pump package with our easy-to-use accessories - all the parts you need to quickly and efficiently dispense DEF.



KIT180MAMPS

### KIT180MAMPS

- Stainless Steel Mounting Plate
- 825D075BSPP Digital Meter
- 3/4" x 6' hardwall suction hose
- 3/4" x 12' discharge hose
- 3/4" stainless steel auto nozzle
- stainless steel coupler

### KIT180MAPS

- Stainless Steel Mounting Plate
- 3/4" x 6' hardwall suction hose
- 3/4" x 12' discharge hose
- 3/4" stainless steel auto nozzle

### KIT180MPPS

- Stainless Steel Mounting Plate

	FRSD120800MN	Top Selling Model FRSA120800MN	SV8ARDNSD/ SV8SRDBSD	SV20A1NSD/ SV20A1BSD	825D075BSPPS
Flow Rate (GPM/LPM)	8/30	8/30	8/30	20/76	2 - 20/7.6 -76
Motor Horsepower	1/2	1/2	1/2	1/2	-
Motor Kw	373	373	373	373	-
FL Motor Amps	35	7.2	7.2	7.2	-
Voltage	12 VDC	115 VAC	115 VAC	115 VAC	-
Port Size	3/4" BSPP	3/4" BSPP	3/4" BSPP/NPT	3/4" BSPP/NPT	3/4" BSPP
Motor Type	TEFC	TEFC	ODP	TEFC	-
Max Viscosity	40 cp	40 cp	40 cp	40 cp	-
Max Temp [°F / °C]	120/49	120/49	120/49	120/49	130/54
Duty	Continuous	Continuous	Continuous	Continuous	n/a
Housing	304SS	304SS	304SS	304SS	Glass-Filled Poly
Vanes	Acetal	Acetal	Acetal	Acetal	n/a
Seals	Viton®	Viton®	Viton®	Viton®	Viton®
Accuracy	-	-	-	-	± 0.5%
Certification*	UL/cUL	UL/cUL	-	UL/cUL	-

\* Not approved for volatile applications



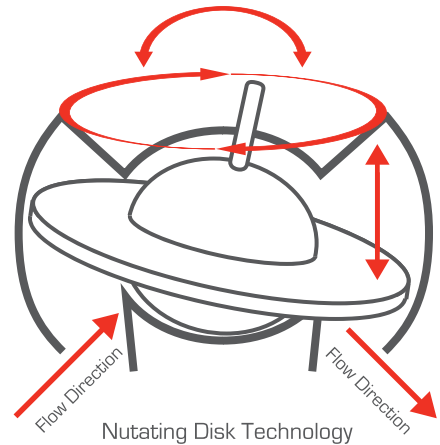
# Meter Overview

## Tuthill Positive Displacement Meters

Fill-Rite has over 50 years of experience in the design and manufacture of positive displacement meters, shipping over 100,000 units annually. Our expertise in Nutating Disc and Oval Gear technologies position us to cover a broad range of applications in multiple markets. Whether you're keeping track of fuel consumption on site or out in the field, or you need a meter that is "Weights and Measures approved" for custody transfer, batching, or dispensing, Fill-Rite can provide a value minded professional solution.

### Nutating Disc [accuracy $\pm 2\%$ ]

Mechanical Meters are the work horses of the Fill-Rite line. The 800 and 900 Series nutating disc mechanical meters are designed specifically to meter and totalize (Gas/ diesel) fuels transferred on-site. For rapid fuel transfer these are typically mated to a Fill-Rite Pump, but can also be used in gravity feed applications. The flow range for these two models is 5 - 40 GPM. If you need something that is a bit more robust and can handle higher flows (up to 60 GPM) and pressure (150 - 1500 PSI) look no further than the TN Series. The TN Series is not only great for Diesel it can also handle many other Automotive and Industrial fluid applications.



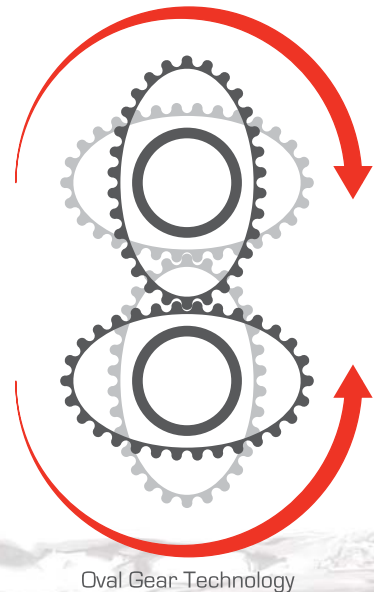
### Digital Meters

Our 900D Series (Nickel coated aluminum) and 825/820 Series Digital Chemical (Polypropylene) meters can handle a wide range of flows and compatibilities. Both Petro Chemical and Chemicals can be metered. Coming the Summer of 2012, Fill-Rite will add the 900DP Digital Meter with electronic pulser to our line. This exciting new product has no equal in the industry, providing the same performance as the class leading 900D with the added capability of electronic pulse output for Energy Management Systems.

### Precision Oval Gear [accuracy $\pm .05\%$ ]

Tuthill manufactures a complete series of Oval Gear Precision Meters that are available in both Aluminum and Stainless Steel. The TS Series Meters cover a flow rate range of 8 - 200 GPM and pressure range of 0-400PSI. Weights and Measures approved models are available for certain Custody Transfer applications that include refined Fuels and Diesel Exhaust Fluid. Applications include: Dispenser - Fuels and DEF, Bulk Rack - High volume loading and unloading, Bob Tail - Delivery Truck (Gas / Diesel / Home Heating Oil).

Our TM Series (Mini) 2-20 GPM precision meters complete the low flow range of our offering. Applications Include: Additive Injection, Fuel Consumption measurement, and more.



# FILL-RITE® High Flow/High Pressure Rugged Application Meters



TN740AN1CAA1TAI

Our TN Meters are part our Fill-Rite family of meters that are famous for rugged dependability. These meters utilize positive displacement nutating disk technology for use in non-custody transfer applications such as inventory control of refined petroleum products and non-corrosive chemicals.

High pressure versions are available in two model sizes (TN700 and TN800 series) for use in automotive fluid distribution systems, lube trucks, and similar service. With a viscosity range from 1 to 50,000 cSt, these meters can handle a wide range of temperature and viscosity conditions for a versatile solution to your metering needs.

Contact Customer Service for a full line listing of TN Meters

	TN740AN1CAA1TAI	TN760AN1CAB1GAF	TN860AN1CAB1GAC	TN860AN1CAB2GAC	TN860AN1CAB2GBC
Flow (GPM/LPM)	0.5 - 10 / 1.9 - 38	0.8 - 15 / 2.9 - 57	6.0 - 60 / 23 - 230	6.0 - 60 / 23 - 230	6.0 - 60 / 23 - 230
Max Pressure (psi/bar)	1,000/69.0	400/27.6	150/10.3	150/10.3	150/10.3
Inlet/Outlet Port	1" / 1" NPT	1½" / 1½" NPT	1½" / 1½" NPT	1½" / 1½" NPT	1½" / 1½" NPT
Meter Type	4 Digit Mech. 1/10 Gal	4 Digit Mech. Whole Gal	4 Digit Mech. Whole Gal	4 Digit Mech. Whole Gal	4 Digit Mech. Whole Gal
Mtrls of Const - Housing	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum	Anodized Aluminum
Mtrls of Const - Seals	Viton®	Viton®	Viton®	Viton®	PTFE & Chemraz®
Mtrls of Const - Internal	PPS, Stainless Steel	PPS, Stainless Steel	PPS, Stainless Steel	PPS, Stainless Steel	PPS, Stainless Steel
Max Temp. (°F/°C)	167°/75°	167°/75°	167°/75°	167°/75°	167°/75°
Totalizer Digits	8	8	8	8	8
Meter Accuracy	+/- 2.00%	+/- 2.00%	+/- 2.00%	+/- 2.00%	+/- 2.00%
Viscosity Range (cSt)	125 - 50,000	125 - 50,000	3 - 22	1 - 2	1 - 2
Fluid Compatibility	High Viscosity Lube	High Viscosity Lube	Diesel, BioDiesel, Kerosene	Gasoline, Water	E85, E100, ALS, Solvents

## Mechanical Meters

Fill-Rite's line of 3-wheel and 4-wheel mechanical flow meters are designed to meet the stringent demands of customers who need to monitor fuel usage accurately and dependably. Rugged construction, easy to read numbers, and the flexibility of horizontal or vertical positioning are just three features of these superior meters. Plus, all can be field calibrated for the utmost accuracy.



807C

# Mechanical Meters



FR901



901N1.5



901LMK4200



806C

	Gravity Feed Models					
	806C	806CL	807C	807CL	807C1	807CL1
Description	3-Digit (Gallon)	3-Digit (Liter)	3-Digit (Gallon)	3-Digit (Liter)	3-Digit (Gallon)	3-Digit (Liter)
Flow Rate (GPM/LPM)	5 - 20/19-75	5 - 20/19-75	5 - 20/19-75	5 - 20/19-75	5 - 20/19-75	5 - 20/19-75
Max Pressure (psi/bar)	50/3.5	50/3.5	50/3.5	50/3.5	50/3.5	50/3.5
Inlet/Outlet	1" / 1"	1" / 1"	3/4" / 3/4"	3/4" / 3/4"	1" / 1"	1" / 1"
Matls of Const - Housing	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Mtrls of Const - Seals	Viton® & Buna	Viton® & Buna	Viton® & Buna	Viton® & Buna	Viton® & Buna	Viton® & Buna
Mtrls of Const - Internal	PPS, Stainless	PPS, Stainless	PPS, Stainless	PPS, Stainless	PPS, Stainless	PPS, Stainless
Compatible Fluids	Gasoline, Diesel, B20, E15, Kerosene					
Certification	UL/cUL, CE, Ex	UL/cUL, CE, Ex	UL/cUL, CE, Ex	UL/cUL, CE, Ex	UL/cUL, CE, Ex	UL/cUL, CE, Ex

	807CN1	807CMK	901	901L	9011.5	901L1.5
Description	3-Digit (Gallon)	3-Digit (Gallon)	4-Digit (Gallon)	4-Digit (Liter)	4-Digit (Gallon)	4-Digit (Liter)
Flow Rate (GPM/LPM)	5 - 20/19-75	5 - 20/19-75	6 - 40/23-151	6 - 40/23-151	6 - 40/23-151	6 - 40/23-151
Max Pressure (psi/bar)	50/3.5	50/3.5	50/3.5	50/3.5	50/3.5	50/3.5
Inlet/Outlet	1" / 1"	3/4" / 3/4"	1" / 1"	1" / 1"	1 1/2" / 1 1/2"	1 1/2" / 1 1/2"
Matls of Const - Housing	Nickel Plate Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Mtrls of Const - Seals	Viton®	Viton® & Buna	Viton® & Buna	Viton® & Buna	Viton® & Buna	Viton® & Buna
Mtrls of Const - Internal	PPS, Stainless	PPS, Stainless	SS, Steel, Polyester	SS, Steel, Polyester	SS, Steel, Polyester	SS, Steel, Polyester
Compatible Fluids	+Non-Potable Water	Gasoline, Diesel, B20, E15, Kerosene				
Certification	UL/cUL, CE, Ex	UL/cUL, CE, Ex	UL/cUL, CE, Ex	UL/cUL, CE, Ex	UL/cUL, CE, Ex	UL/cUL, CE, Ex

	901N1.5	901MK300V	901LMK300	901MK4200	901LMK4200
Description	4-Digit (Gallon)	4-Digit (Gallon)	4-Digit (Liter)	4-Digit (Gallon)	4-Digit (Liter)
Flow Rate (GPM/LPM)	6 - 40/23-151	6 - 40/23-151	6 - 40/23-151	6 - 40/23-151	6 - 40/23-151
Max Pressure (psi/bar)	50/3.5	50/3.5	50/3.5	50/3.5	50/3.5
Inlet/Outlet	1 1/2" / 1 1/2"	1" / 1"	1" / 1"	1" / 1"	1" / 1"
Matls of Const - Housing	Nickel Plate Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Mtrls of Const - Seals	Viton®	Viton® & Buna	Viton® & Buna	Viton® & Buna	Viton® & Buna
Mtrls of Const - Internal	SS, Steel, Polyester	SS, Steel, Polyester	SS, Steel, Polyester	SS, Steel, Polyester	SS, Steel, Polyester
Compatible Fluids	+Non-Potable Water	Gasoline, Diesel, B20, E15, Kerosene			
Certification	UL/cUL, CE, Ex	UL/cUL, CE, Ex	UL/cUL, CE, Ex	UL/cUL, CE, Ex	UL/cUL, CE, Ex





900D



820

**Coming in Mid 2012**

Fill-Rite positive displacement nutating disc meters are ideal for in-line use, or mounted to one of our Rotary Vane or Diaphragm Pumps. The rugged corrosion-resistant construction provides a durable product for the most demanding applications. Our digital meters are easy to calibrate and allow for simple selection of metering units. Incredible utility, visual clarity, and amazing accuracy is what you get from our line of digital meters.



**The 900DP Meter**  
for Gasoline Applications

	820	900D	900D1.5	900DBSPT	900D1.5BSPT
Flow Rate (GPM/LPM)	2 - 20/7-75	6 - 40/23-151	6 - 40/23-151	6 - 40/23-151	6 - 40/23-151
Max Pressure (psi/bar)	120/8.2 @ 70°F	50/3.5	50/3.5	50/3.5	50/3.5
Inlet/Outlet	1"/1"	1"/1" NPT	1½"/1½" NPT	1"/1" BSPT	1½"/1½" BSPT
Matls of Const - Body	Polypropylene	Nickel Plated Aluminum / Aluminum			
Mtrls of Const - Seals	Viton®	Buna	Buna	Buna	Buna
Mtrls of Const - Internal	Stainless, PPS	Stainless Steel, Steel, Polyester, Acetal			
Power Source	2 AA Batteries	2 AA Batteries	2 AA Batteries	2 AA Batteries	2 AA Batteries
Calibration		Ounces, Pints, Quarts, Liters, Gallons, and user defined units			
Certification	-	CE, Ex	CE, Ex	CE, Ex	CE, Ex
Compatible Fluids	Water, light oils, mild chemical	Diesel, Kerosene, Mineral Spirits, and Standard Solvents and Heptanes			

# Specialty Dispenser Meters

## Dispenser Meters

Tuthill offers the most dependable precision meters on the market for Fuel and Diesel Exhaust Fluid dispenser applications. From DEF to pure Ethanol, we are able to accommodate a wide range of fluid compatibilities through a variety of materials. Our meters conform to the Weights and Measures Handbook 44 requirements.



TS06A



TS06C

	TS04A	TS04C	TS06A	TS06C	TS10A	TS10C	TS15A	TS15C
Flow Rate (GPM/LPM)	1.5-15/5.5-56		2-20/8-76		4-40/15-150		6-60/23-230	
Linearity / Linearity Downturn	better than ±0.20% / 10:1							
Repeatability	better than ±0.05% (under constant conditions)							
Pressure Rating (at 100°F/40°C)	50 PSI = 3.5 BAR =350 kPa							
Temperature Rating	- 40° to + 122°F = - 40°C to +50°C							
Certifications	2G Ex d IIA T4, -20°C < Ta < +60° C, ATEK, IEC Ex & IP65, UL & cUL							
Unscaled Pulse Resolution (PPG/PPL)	800/ 212		400/ 106		1,728/ 471		1,013/ 268	
Matls of Const - Case	AA *	SS **	AA *	SS **	AA *	SS **	AA *	SS **
Matls of Const - Gears	PPS with carbon bearings							
Matls of Const - Posts	Stainless Steel							
Matls of Const - Seals	Viton™ or PTFE™							

\* Anodized Aluminum \*\*Stainless Steel

## LPG Meters

Whether the requirement is for retail or wholesale dispense, Fill-Rite accommodates single or double hose metering for a wide range of LPG installation options with simplicity and precision.



TS06AS83

	TS06AS83 (LPG Single) and TS06AS84 (LPG Twin)
Flow Rate (GPM/LPM)	2-20 / 7.5-75
Linearity/Linearity Downturn	better than 0.50% / 10:1
Repeatability	0.20%
Pressure Rating (at 100°F/40°C)	350 PSI at 100°F = 24 BAR at 40°C
Temperature Rating	-40°F to +300°F = -40°C to +150°C
Certifications	Weights & Measures US, CE Mark, UL, cUL & Atex
Unscaled Pulse Resolution (PPG/PPL)	380/100
Matls of Const - Case	Anodized Aluminum
Matls of Const - Gears	Stainless Steel
Matls of Const - Posts	Stainless Steel
Matls of Const - Seals	UL Buna N

The TS Series is well suited for use in fuels process transfer, high speed batching and loading, tank truck meters, stationary dispensing, industrial and petro-chemical refining and processing. Combined with a mechanical/digital register, printer, or solenoid batching, it is possible to build an application specific system that delivers performance, accuracy, and easy maintenance making the TS Series the intelligent choice.

Available in Aluminum and Stainless Steel, TS Series precision meters offer a full range of metering options ranging from 1", 1½", 2", and 3" sizes with 40-200 GPM at a 150 PSI. These highly precise meters are available in a wide range of configurations to accommodate different temperatures, viscosities, chemical compatibilities, mechanical/digital register calibrations, strainers, filters, air eliminators, air check, backpressure, and preset valves, flanges, and seals.





# Positive Displacement Oval Gear Meters for Fuels



**Mechanical Fuel Meters For Aviation Fuel, Bio-Diesel, Diesel Fuel, Light Fuel Oils, Gasoline, Glycols, Kerosene and Water**

	TS15A	TS20A	TS30A
Flow Rate (GPM/LPM)	60/227	150/568	200/757
Max Pressure (psi/bar)	150/10.3	150/10.3	150/10.3
Inlet/Outlet Port	1½" NPT	2" NPT	3" NPT
Register Type	5 Wheel Mechanical	5 Wheel Mechanical	5 Wheel Mechanical
Matls of Const - Body	Aluminum	Aluminum	Aluminum
Mtrls of Const - Seals	Viton® or PTFE	Viton® or PTFE	Viton® or PTFE
Rotors and Bearings	LV-PPS/Carbon	LV-PPS/Carbon	LV-PPS/Carbon
Max Temp. Range (F°/C°)	- 40° - 180° / - 40° - 80°	- 40° - 180° / - 40° - 80°	- 40° - 180° / - 40° - 80°
Totalizer Digits	8	8	8
Meter Accuracy	± 0.05%	± 0.05%	± 0.05%
Viscosity Range [cSt]	Up to 300 - can be used with higher viscosities, meter will be derated, consult factory for recommendations		

## Best Selling Models - w/ Mechanical Registers

TS15AV04ATCBMXAXX - Meter and Mechanical Register (1/10 Gallon)

TS20AV04ATCBMXAXX - Meter and Mechanical Register (1/10 Gallon)

TS20AV06ATCBMXAS4 - Meter, Mechanical Register (1/10 Gallon) , Strainer (40 Mesh) and Air Eliminator

TS20AV04ALCBMXAXX - Meter and Mechanical Register (Liter)

TS20AV06ALCBMXAS4 - Meter, Mechanical Register (Liter), Strainer (40 Mesh) and Air Eliminator

TS30AV04AGCBMXAXX - Meter and Mechanical Register (Whole Gallons)

TS30AV06AGCBMXAS4 - Meter, Mechanical Register (Whole Gallons), Strainer (40 Mesh) and Air Eliminator

TS30AV04ALCBMXAXX - Meter and Mechanical Register (Liter)

TS30AV06ALCBMXAS4 - Meter, Mechanical Register (Liter), Strainer (40 Mesh) and Air Eliminator

For Full Line Listing Including Digital Register Options, Contact Customer Service



N100DAU13



N100UMN11



FRNA075DAU10



N100DAU10



N075UAU10

	N075UMN11	N100UMN11	N075DAU10	N075UAU10
Description	¾" Aluminum Nozzle	1" Aluminum Nozzle	¾" Automatic Nozzle w/Hook, Diesel Spout	¾" Automatic Nozzle w/Hook, Unleaded Spout
Certification	UL/cUL	UL/cUL	UL/cUL	UL/cUL
Compatible Fluids	Diesel, Gasoline, Kerosene	Diesel, Gasoline, Kerosene	Diesel, Gasoline, Kerosene	Diesel, Gasoline, Kerosene

	N100DAU10	N100DAU13	FRNA075DAU10	FRNA100DAU00
Description	1" Automatic Nozzle w/Hook	1" Ultra High Flow Automatic Nozzle w/Hook	¾" Arctic Automatic Nozzle w/Hook	1" Arctic Automatic Nozzle
Certification	UL	UL/cUL	UL/cUL	UL/cUL
Compatible Fluids	Diesel, Gasoline, Kerosene	Diesel, Gasoline, Kerosene	Diesel, Gasoline, Kerosene	Diesel, Gasoline, Kerosene



FRH07512



FRH10014



FRHA10020

	300F7773	700F3135	FRH07512	FRH07514	FRH07520
Description	1" x 12' Hose, UL	¾" x 12' Hose, UL	¾" x 12' Hose	¾" x 14' Hose	¾" x 20' Hose

	FRH10012	FRH10014	FRH10020	FRHA07515	FRHA10020
Description	1" x 12' Hose	1" x 14' Hose	1" x 20' Hose	¾" x 15' Arctic Hose	1" x 20' Arctic Hose

# Accessories

F1810HC1



F1810PMO



F4030PMO



	F1810HC1	F1810HMO	F1810PC1	F1810PMO	F4030PMO	F4010PMO
Description	Clear Bowl Filter w/Drain kit	Spin on Filter 10 Micron	Clear Bowl Filter w/Drain kit	Spin on Filter 10 Micron	Spin on Filter - 30 Micron	Spin on Filter - 10 Micron
Filter Type	Hydrosorb	Hydrosorb	Particulate	Particulate	Particulate	Particulate
Max Flow Rate (GPM/LPM)	18/68	18/68	18/68	18/68	40/151	40/151



	1200KTG8127 3/4" Filter Head	700ACCF7017 1" Filter Head
Description	For use with F18 Particulate and Hydrosorb Filters	For use with F40 Particulate Filters



	1200KTG9099	30F1879	30F5301
Description	1" Telescoping Suction Pipe	1/2" Telescoping Suction Pipe	1/2" Telescoping Suction Pipe
Material	Steel	Polypropylene	Steel
Length	20" to 34 3/4"	21" to 36"	21" to 36"



	FRTC	FRTCB
Description	Vented Fuel Cap for Tanks (cap only)	Vented Fill Cap with 2" Base for Tanks



	S034H1311	S100H1312
Description	3/4" Aluminum Single Plane Swivel	1" Aluminum Single Plane Swivel





**KIT505WMA**

Wall Mount Assembly Kit for SP100



**KIT505FRH**

Filter Regulator Hose  
Air Line Connection Kit for SP100



**MMSS075RSV**

RSV Four Pin Dispense Coupler



**KIT180MPPS**

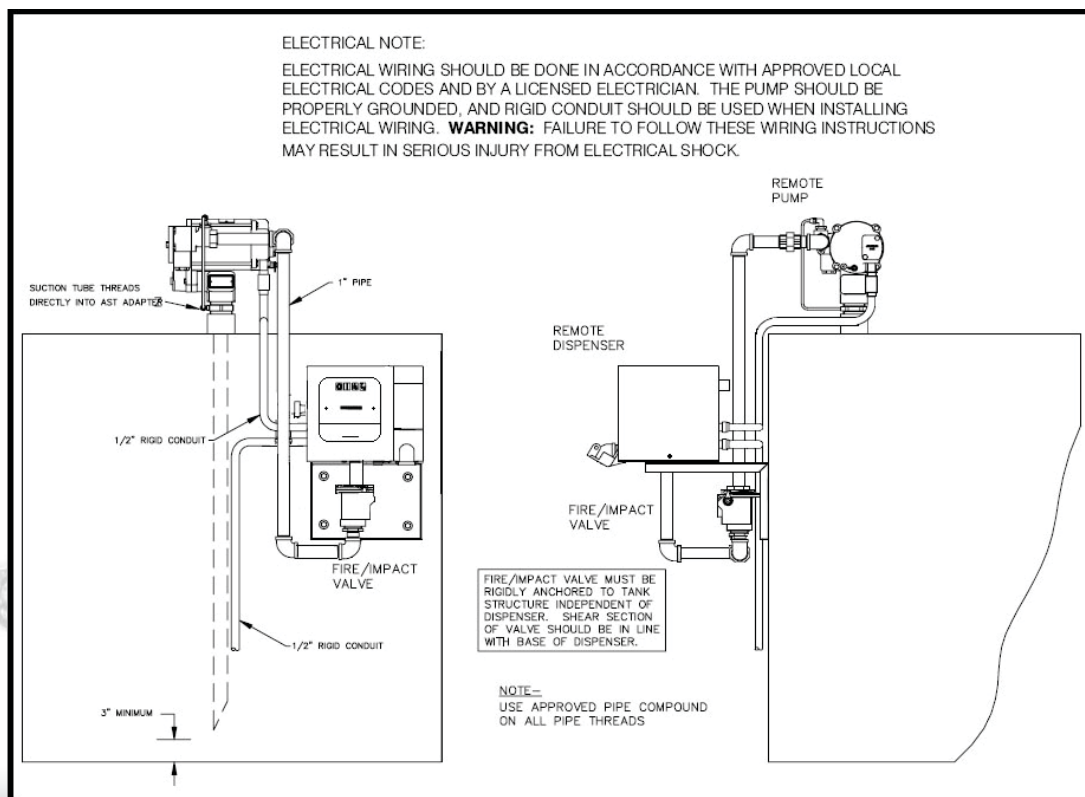
Stainless Mounting Plate  
For all Rotary Vane SV and FR DEF  
Series Pumps and SP100



**KIT180DTPS**

55 Gallon Drop Tube

### Above Ground Tank Installation for Remote Pumps and Meter Cabinets



## Notes



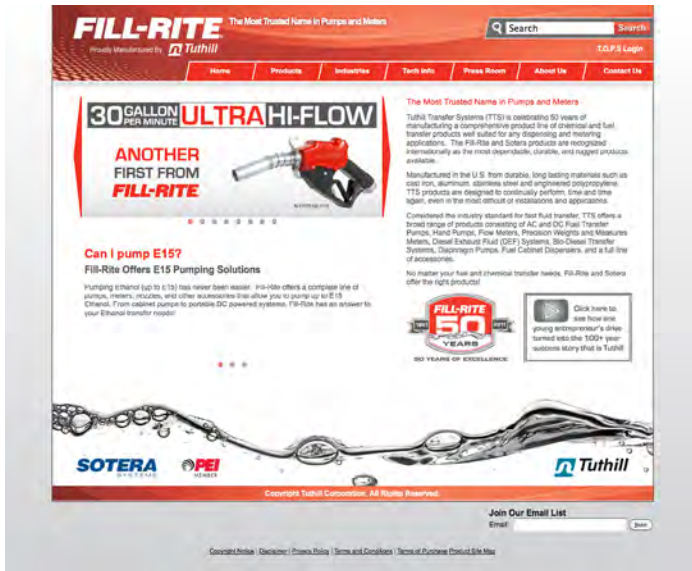
## Notes





# For More Information Visit Us at

www.**FILL-RITE**.com



www.**SOTERA**.com



## For Our Retail Customers

A full listing of our UPC codes, shipping weights, and pallet quantities is available at  
www.fillrite.com

## Tuthill Locations

**Tuthill Corporate**  
8500 S. Madison St.  
Burr Ridge, IL 60527  
Tel - (630) 382.4900  
Fax - (630) 382.4999

**Tuthill - Fill-Rite/Sotera Division**  
8825 Aviation Drive  
Fort Wayne, IN 46809  
Tel - (260) 747-7524  
Fax - (260) 747-3159



8825 Aviation Drive  
Fort Wayne, IN 46809  
USA Customer Service:  
Tel: 800.634.2695 or 260.747.7524  
Fax: 800.866.4861 or 800.688.1793

[www.fillrite.com](http://www.fillrite.com)

**FILL-RITE**

[www.sotera.com](http://www.sotera.com)

**SOTERA**  
SYSTEMS