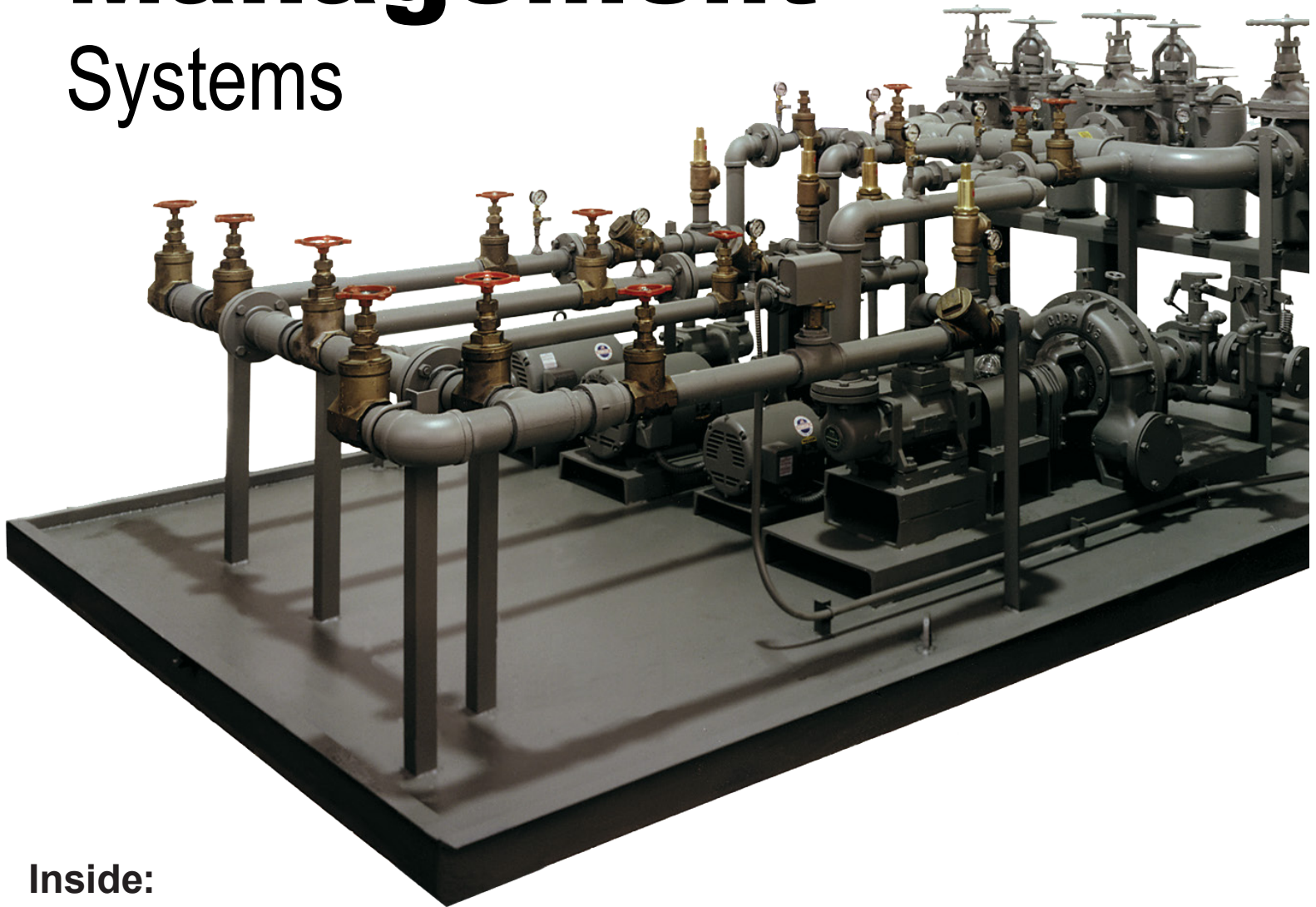


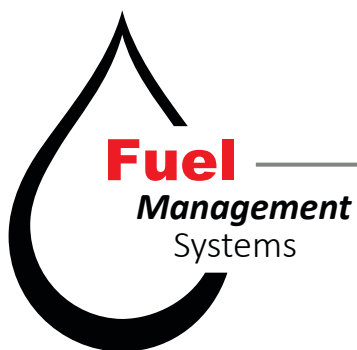
Fuel Management Systems



Inside:

- Fuel Transfer Pump Sets
- Fuel Filtration Sets
- Pump and Day Tank Sets
- Fuel Oil Handling Systems
- Fuel Oil Additives and Treatments
- Fuel Oil Specialties
- Waterproof Pumps





Fuel Management Systems

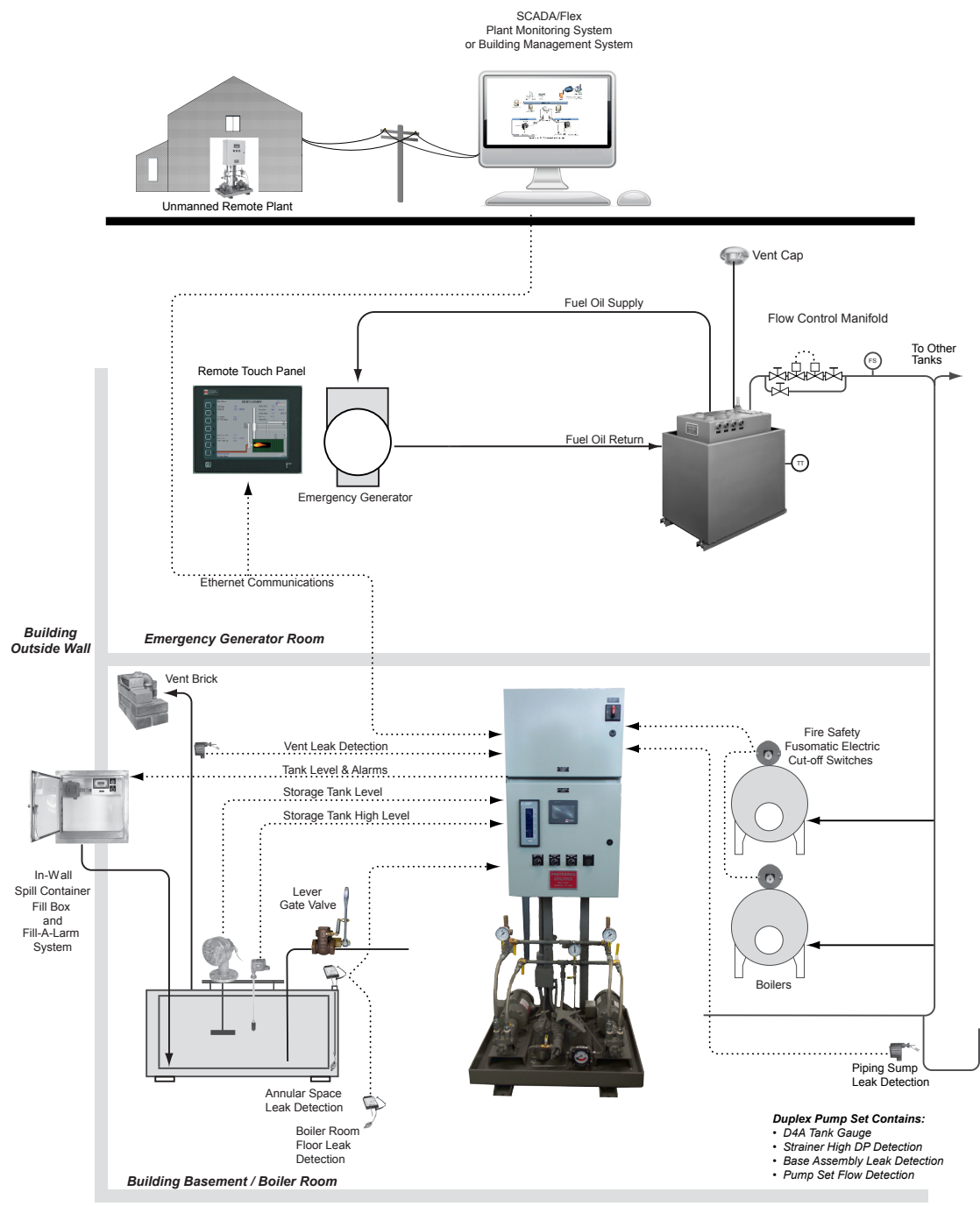
Fuel Management Systems Diagram

Preferred Utilities designs **Fuel Management Systems** to continuously monitor and control fuel levels, provide leak detection and alarms for double wall tanks and piping sumps, as well as control fuel pumps and valves for boiler and emergency generator fuel system applications.

These control systems—when integrated with Preferred Utilities’s day tanks, pump sets, and fuel filtration sets—eliminate the installation problems that arise when multiple suppliers are involved. Single-source responsibility assures seamless interface and improved overall system performance.

Typical applications include multiple day tank systems, multiple main storage tank systems, remote fill systems, automatic tank selection and sequencing, and automatic filtration.

No matter what the application is, trouble free installation and operation are assured when fully engineered systems are packaged and supplied by Preferred Utilities.



Standard Products from our Catalog

We offer a wide array of standard products. These pre-programmed systems integrate seamlessly with all of our fuel management products.



The **Model ATPS Automatic Fuel Oil Transfer Pump Set (ATPSF)** is a revolutionary duplex pump sequencing and monitoring system. This system includes automatic Lead/Lag pump features that improve fuel system availability and uptime.

A pump set mounted LCD display is used to monitor day tank and pump set status and alarms. A 10-inch operator touch screen controller is available.

Features:

- Nema 4 Enclosure
- Automatic Lead/Lag
- Alarm and event summaries
- Fuel Sentry Available
- Color touch screen included
- RS-485 communications
- New FSC controller



The **Model PF Automatic Fuel Oil Filtration Sets** are the most complete, efficient, and reliable engine protection systems one can install. These self-contained, fully automatic systems remove water, suspended rust, sludge, dirt, and other contaminants in order to maintain the quality and purity of your stored diesel fuel.

Features:

- Cast-iron internal gear pumps
- Safety shutdown
- Standard Flows From 180-1200 GPH
- Color touch screen
- New FSC controller



The **Fuel Oil Transfer Pump and Day Tank** package provides a local supply of distillate or diesel fuel for boilers, emergency generators, or other stationary engine driven or oil-fired equipment. This complete package includes our UL approved Model DT Day Tank, supply and/or return pump(s), and a PLC-based NEMA 4 control cabinet.

Features:

- Standard flows from 23 to 1600 GPH
- Micro-processor based
- 4" color touch screen
- RS-485 communications
- New FSC controller





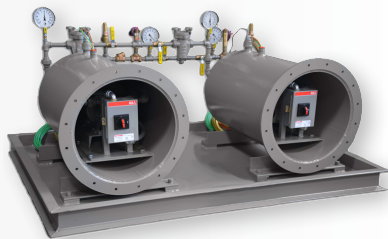
Fuel Oil
Specialties

Waterproof Pumps

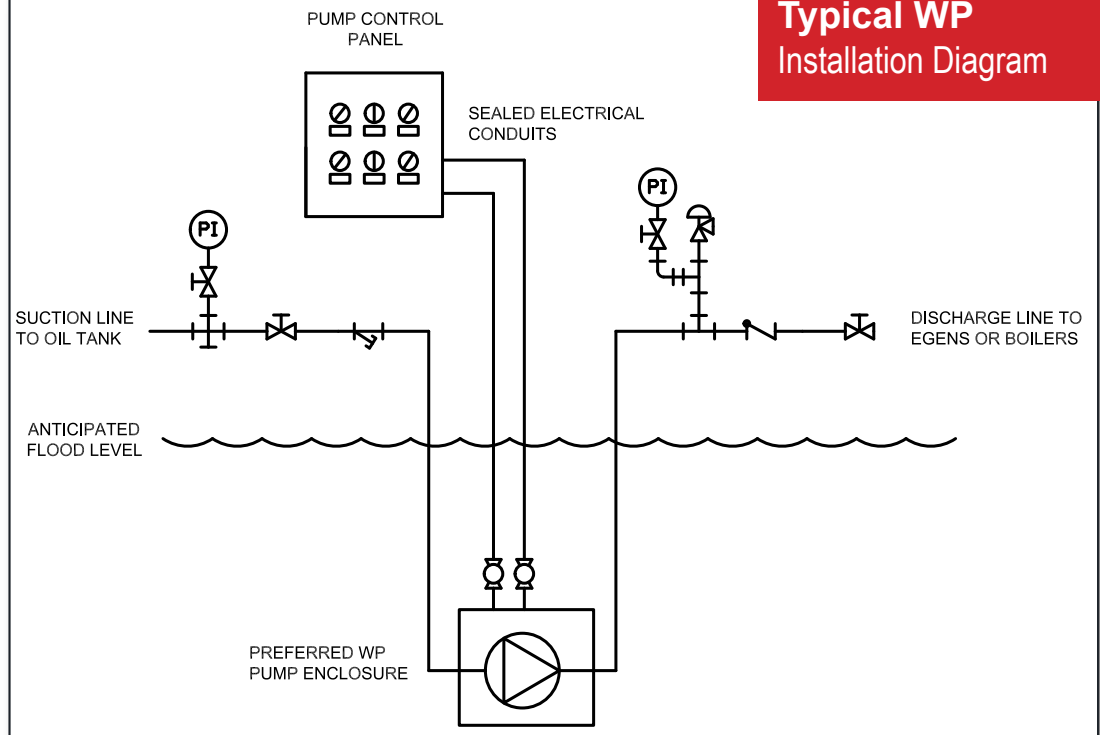
Model WP 100-200*

Preferred's **WP Series Waterproof Pump** enclosures include the pump and motor assembly, a Preferred HD-A2 discriminating oil/water leak detector, a sealed high voltage wire and conduit pigtail, and a sealed low voltage wire and conduit pigtail. Available in pump sizes LO-100 to LO-205 (20 to 1100 gph).

The balance of the typical oil pump set—suction strainers, hand valves, relief valves, and pump controls, can be mounted with the pumps or installed upstairs above levels subject to flooding. Preferred integrates all AT-PSF- and SATPSF-style pump accessory sets with our new waterproof pump enclosures, providing a complete mission critical system.



Typical WP Installation Diagram



Ordering Information - select model number from the table below.

Catalog Number	GPH. Oil No. 2 / No. 4	PSI	Motor		Catalog Number	GPH. Oil No. 2 / No. 4	PSI	Motor	
			RPM.	HP				RPM.	HP
WP-101E	20 / 23	100	1725	1/3*	WP-105E	282 / 285	50	1725	3/4**
	23 / 23	50	1725	1/3*	WP-106E	277 / 285	100	1725	1**
WP-102E	27 / 33	100	1725	1/3*	WP-201	340 / 415	50	1140	1/2**
	32 / 33	50	1725	1/3*	WP-202	300 / 410	100	1140	3/4**
WP-103E	80 / 93	100	1725	1/3*	WP-203	780 / 890	50	1140	3/4**
	86 / 95	50	1725	1/3*	WP-204	700 / 870	100	1140	1 1/2**
WP-104E	145 / 155	100	1725	1/2**	WP-205	1100/1300	50	1140	1 1/2**
	155 / 164	50	1725	1/2**	WP-206	1000/1200	100	1140	2**

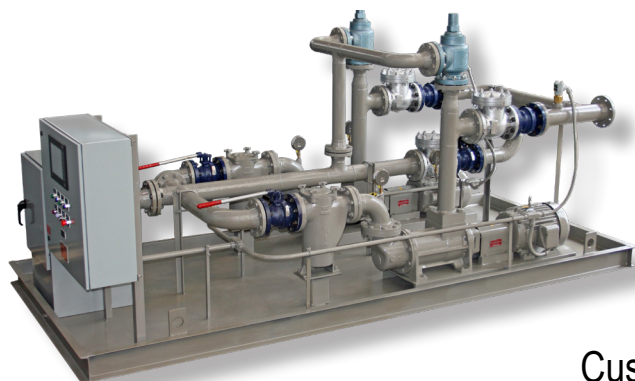
*115, 208 or 230V 60Hz 1 phase

**208, 230 or 460V 60Hz 3 phase

Specifications subject to change without notice. Pump & motor assemblies ratings are nominal at pressures shown with maximum 10" Hg vacuum at pump inlet.

Custom Solutions for Mission Critical Systems

We also build customized fuel systems to meet the needs of today's mission critical facilities, including hospitals, universities, data centers, government buildings, and more.



Custom
Pump Sets

Why Custom?

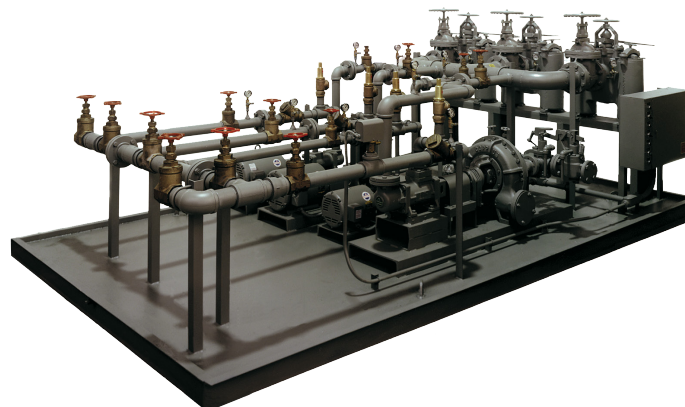
Custom applications ensure the highest reliability and maximum uptime.

By collaborating closely with our engineers, you can build a solution tailored to your application.

And don't worry—we'll make sure it meets all modern requirements.



Custom
Fill Stations



Custom
Control Systems

Field Maintenance and Service

Behind every successful system implementation stands Preferred's highly trained staff of service engineers. We offer expert field service for the commissioning of both new systems and the routine maintenance of existing systems.

In addition to our staff of field service engineers, our factory authorized representative companies maintain service departments to provide prompt local service.

We offer regular technical and product training sessions at our Danbury, Connecticut headquarters.

Preventative Maintenance Additives

Our fuel oil additives can help break up water droplets and disperse sludge to improve filtration efficiency, increase boiler and engine performance, and increase overall reliability.

Removing unwanted water from fuel tanks helps prevent corrosion, prevent leaks, and lengthen tank life. When ordered with the CA-1 option, Preferred filtration systems will store and automatically inject measured quantities of fuel additives to help keep tanks free of sludge and water buildup.



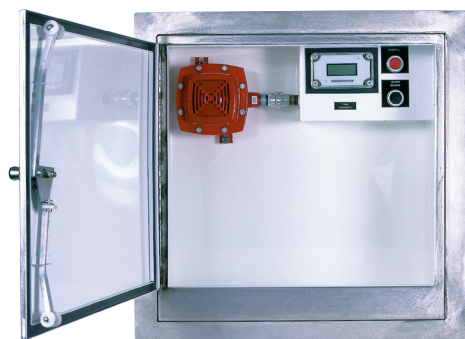
Tank Protector





The **Model LO (Light Oil Pump and Motor Assemblies)** are compact, direct drive units designed to meet the performance and reliability

standards demanded in commercial, industrial and institutional applications. The pump and motor assemblies are for No. 2 and No. 4 diesel oils. Typical installations include diesel generators, oil burners, and day tanks.



The **Model 2 Horizontal Spill Container** provides a access point and overfill alarm for fuel oil storage tank fill lines. It will contain any spilled oil that results when connecting

or disconnecting the delivery fitting. The Model 2 is available in multiple configurations, including flush- or surface-mount, and optional stainless-steel construction.



The **Model 3 Sidewalk Spill Container** provides an in-ground access point and overfill alarm for fuel oil storage tank fill lines that will contain any oil spilled when connecting or disconnecting the delivery fitting. Spill containment is required by NFPA 31.

The U.L. Approved **Fuel Sentry Model TG-EL-D4A Tank Gauge and Leak Detection System**

is a remote reading, microprocessor-based tank gauge with six intrinsically safe sensor inputs that can monitor one or two tanks. The leak detection system is designed for use with double wall tanks, vaulted tanks, single wall tanks with spill basins, and double wall piping.



The **Model TG-EL-WF Wire Float Level Sensor** is extremely accurate, easy to install, and ideal for low "Head Room" installation applications.



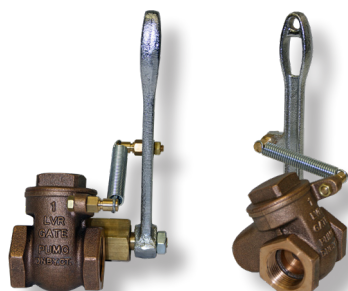
With it's rugged constructed case and lack of moving parts, the solid-state **Model HD-A2 Leak Detector** provides reliable and cost-effective performance. This leak detector uses a combination electro-optic sensor which reliably distinguishes between water and oil.



Vent Caps provide rugged, maintenance-free terminal protection for breather lines from sumps, reservoirs, expansion tanks and a wide assortment of industrial applications.

Standard Specialties from our Catalog

We also provide a wide selection of fuel oil specialties. You'll see many of these parts built into our complete fuel management systems.



Our **Model 110 Oil Lever Gate Valve** is used in fuel oil piping systems to provide automatic shut-off of the fuel flow in the event of a fire. This valve's operation is fully mechanical and is independent of the electrical power supply. The emergency fuel line shut-off is mandated by many codes.

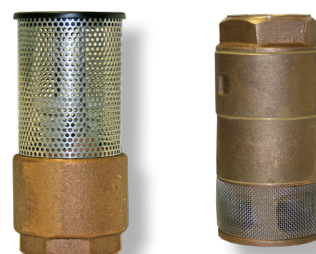


The **Model A Anti-Syphon Valve** reduces fire hazards and prevents oil spills by automatically shutting off the oil flow in the event of a broken or otherwise open oil suction line, as required by NFPA 30 Flammable and Combustible Liquids Code. The Model A is UL approved.

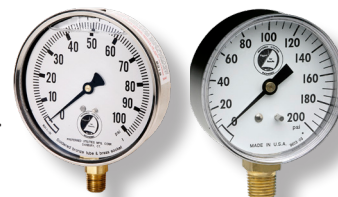


The **Model W Watertight Flush Fill Caps** screw onto the threaded end of fill and/or sounding lines to provide full diameter access to the tank through a watertight terminal. A cast iron turning wrench is also included.

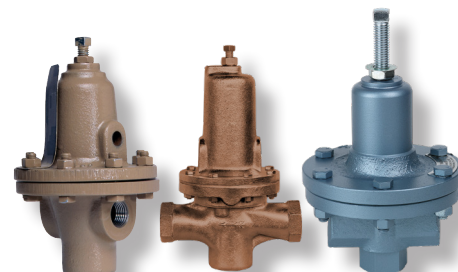
Preferred Utilities's Poppet Foot Valves are designed to keep the suction line to the pump set primed by preventing the flow of oil back into the tank when the pumps are off.



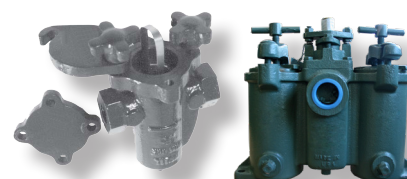
Preferred Utilities's pressure gauges are bottom connected with either a stainless steel or black steel shatterproof, heat resistant, polycarbonate lens.



Our **Pressure Regulating and Reducing Valves** are self-operated and spring-loaded with a cast iron body and stainless steel trim.



Our **Simplex and Duplex Oil Strainers** are designed for applications where easy maintenance and large capacity straining are required.





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