

## TANK SELECTOR VALVES

Recommended by NFPA 31

Instead of a confusing array of hand valves, the Preferred Tank Selector Valve provides a simple and efficient way to select one of two fuel oil storage tanks. Movement of a single lever transfers both the supply and return lines from one tank to the other while providing an uninterrupted path for supply to the pump set and return from the loop. The Tank Selector Valve eliminates the potential overflow hazard inherent in pumping from one tank while returning to the other tank. It also eliminates the danger of blocking the return path from relief valves and positive displacement pumps while changing tanks.

### Operation

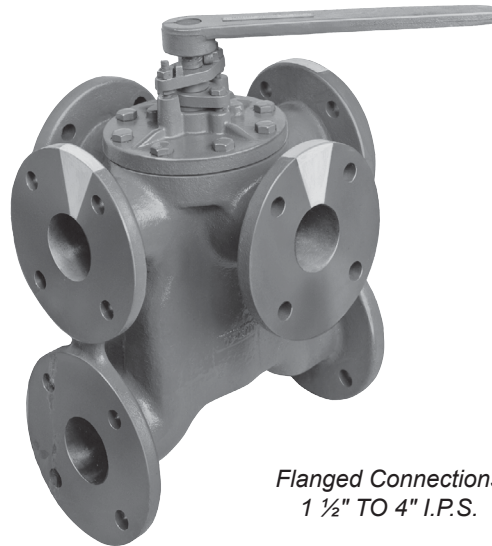
The Preferred Tank Selector Valve consists of a precision-ground tapered plug that rotates 90 degrees within a precision machined cast iron body. The valve is designed so that there is no "blind spot" between the two end positions that would block all flow to or from the tanks. To change tanks, the operator loosens the plug, swings the handle to the opposite position, and re-tightens the plug to ensure the tightest possible seal between the supply and return side of the valve.

**Optional:** An electric actuator can also be mounted on top of the valve to provide automatic lever movement (cannot be done on valves with lifting jacks).

### Construction

Standard valve construction consists of a cast iron plug within a cast iron body. Nuts running on threaded studs (see photo) are used to tighten the plug.

Optional plug materials include Sure-tite, Teflon coated cast iron, and bronze (Sure-tite and Teflon coated cast iron plugs are only available on 1¼" and larger valves). These plug construction options include a lifting jack arrangement on



*Flanged Connections  
1 ½" TO 4" I.P.S.*

1¼" and larger valves which, simplifies adjustment of the plug to body fit. The lifting jack allows the valve plug to be loosened easily prior to rotating the tank selection lever, and to be tightened after the selection is made. These optional plug constructions allow a tighter seal between the supply and return lines, and between the two tank circuits.

**Caution:** The Tank Selector Valve should be applied on applications where slight leakage from the return piping to the suction piping is not objectionable. On applications utilizing intermittent pumps, care should be taken that the return connections at the valve remain flooded during the pump "off" cycle to prevent the inspiration of air into the suction line from the return side of the valve. If the return connections cannot remain flooded, it is recommended that the Sure-tite option with lifting jack be used. Valve stem packing prevents the inspiration of air into the piping from outside the valve.

### Suggested Specifications

Furnish and install a Tank Selector Valve for manifolding of fuel oil storage tanks per NFPA 31 Standard for the Installation of Oil-Burning Equipment. Valve shall incorporate six (6) valve connections in a common casting with a single operating lever for tank selection and visible indication of tank use. The selector valve for the transfer set shall be manually operated. A Sure-tite plug material shall be supplied to prevent loss of pump set prime. Refer to the mechanical drawings for piping arrangement. The valve shall be a Preferred Utilities Mfg. Corp., Danbury, CT, Tank Selector Valve.

### Ordering Information

Select catalog number from the tables on the next page. To add optional plug material, add the appropriate suffix:

- S Sure-tite (1¼" and larger valves only)
- T Teflon coated cast iron (1¼" and larger valves only)
- B Bronze

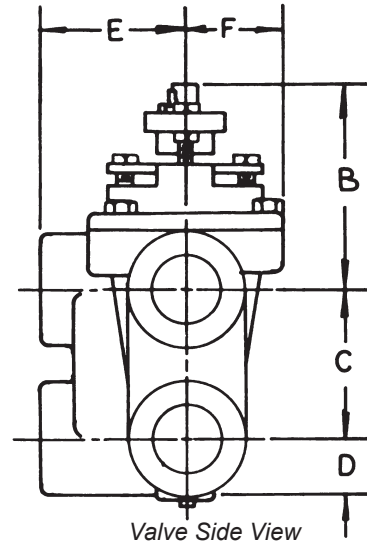
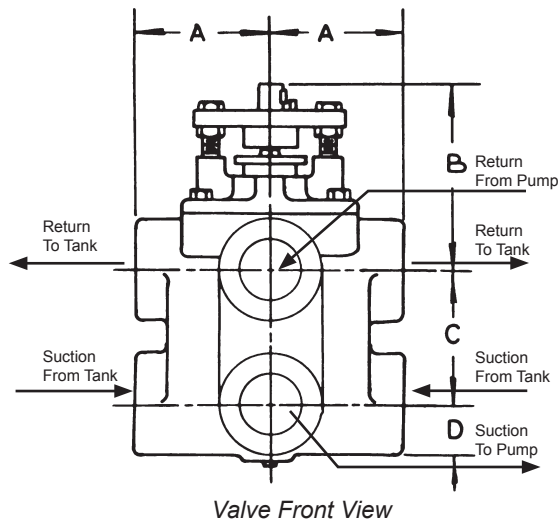


*Threaded Connections  
¾" TO 2 ½" I.P.S.*

# TANK SELECTOR VALVE

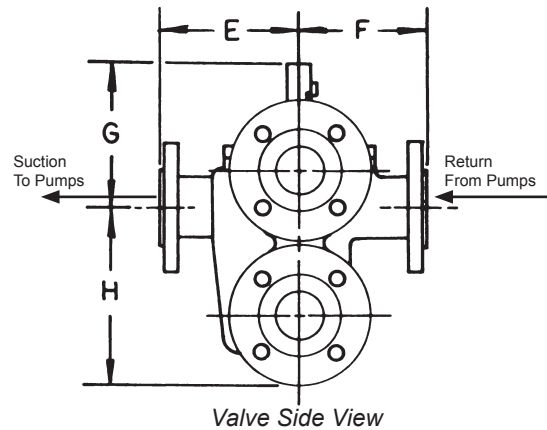
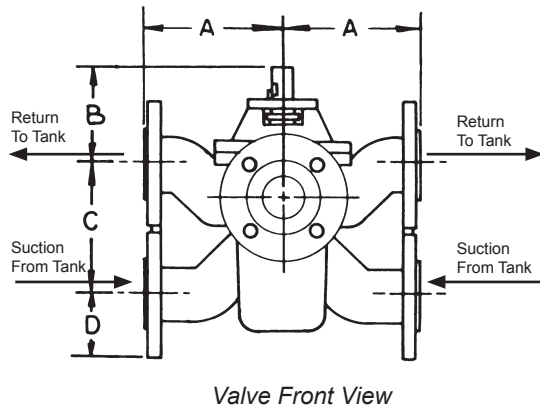
## Ordering Information

### Tank Selector Valve with Threaded Connections



Catalog Number	Threaded Connections						Weight (lbs.)
	SIZE	A	B	C	D	E	
13030	3/4	2 5/8	3 7/8	2 5/8	1 1/8	2 5/8	14
13031	1	2 5/8	3 7/8	2 5/8	1 1/8	2 5/8	14
13032	1 1/4	3 3/4	6 3/4	2 3/4	1 11/16	3 3/4	35
13033	1 1/2	3 3/4	6 3/4	2 3/4	1 11/16	3 3/4	35
13034	2	5 7/8	6 3/4	3 13/16	3	5 7/8	85
13127	2 1/2	5 7/8	6 3/4	3 13/16	3	5 7/8	85

### Tank Selector Valve with Flange Connections



Catalog Number	Flanged Connections									Weight (lbs.)
	SIZE	A	B	C	D	E	F	G	H	
13038	1 1/2	5	5 5/8	6 3/8	1 1/8	4 15/16	4 7/16	6 5/8	7 7/8	55
13126	2	6	6 5/8	6 3/4	1 1/8	6 1/4	5 3/4	7 1/16	9 5/16	90
13035	2 1/2	6 1/2	6 5/8	7 3/4	3 1/2	6 1/2	6 1/8	7 1/16	10 13/16	120
13036	3	7	6 15/16	7 3/4	3 3/4	6 7/8	5 5/8	7 1/16	11 3/8	141
13037	4	10 1/2	4 15/16	10 1/4	4 1/2	9	6 5/8	7 11/16	12 1/16	250

(Additional Sizes Available-consult factory.)

All Dimensions are in inches.

Specifications subject to change without notice.