

## OVERFILL PREVENTION VALVE

### Model 71 for Underground Gravity Filled Storage Tank

The Model 71 overfill prevention valve provides a mechanical method of automatic fuel oil shut-off to prevent overfilling of underground storage tanks during a gravity filled delivery as required by NFPA 30 Flammable and Combustible Liquid Code. It is designed to satisfy EPA regulations covering overfill protection, "a device that will automatically shut off the flow of oil into the tank when the tank is no more than 95% full."\* It is recommended to be installed with a Preferred Fil-A-Larm system, which provides a pre-alert audible/visual alarm and shut-off notification to the fill operator, prior to the actuation of the Model 71.

#### Application

The Model 71 is used for underground diesel or No. 2 fuel oil storage tanks where the tank is gravity filled (i.e. not applicable to "pumped-in fill" applications). The overfill prevention valve includes upper and lower drop tube sections. The upper section is flared, rests on the top of a 4" fill pipe, and is secured in place by the tight fill adaptor. The lower drop tube section extends into the tank and is cut off at either 6 inches from the tank bottom, or at the dimension required by local codes. The overfill prevention valve is installed between the drop tube sections. The valve can be installed from outside the tank without excavation (installation is as easy as changing drop tubes).

**Please Note:** On existing tanks, the drop tube may be held in the tank coupling below the riser pipe. On these installations, the existing drop tube must be removed to accommodate valve operation.

#### Operation

The overfill prevention valve is a float-operated, two-stage shut-off valve system. It is installed as an integral part of a 4" drop tube assembly. When the fuel oil level increases to approximately 95% of tank capacity, the main valve closes. A small bypass valve remains open to permit delivery hose draining at a rate of approximately 2-5 GPM. If the oil level reaches 98% of tank capacity, the bypass valve closes to prevent accidental or intentional overfilling.

**Please Note:** The overfill prevention valve is used with "gravity fill" systems only, and is not intended for "pumped-in fill" applications. It is for diesel or No. 2 fuel oil only.



Model 71, Overfill Prevention Valve

#### Suggested Specifications

Provide and install, in the tank fill pipe, a Preferred Utilities Mfg. Corp., Danbury, CT, Model 71 Overfill Prevention Valve system. The unit shall have a float-operated, two-stage valve system. The main valve shall shut-off at approximately 95% of the tank capacity leaving a small bypass valve open to permit the hose to drain. At approximately 98% of tank capacity, the bypass valve will close completely to shut off all flow.

#### Specifications

<b>Valve Body:</b>	Cast aluminum
<b>Float:</b>	Nitrile rubber, Closed cell foam
<b>Valve:</b>	Aluminum
<b>Seals:</b>	Viton
<b>Upper and Lower Drop Tubes:</b>	Aluminum

#### Ordering Information

Preferred overfill prevention valve:  
Model 71 for tanks buried to 5' of depth, with a maximum inside tank diameter of 8'  
Model 71-L for tanks buried to 9' of depth, with a maximum inside tank diameter of 10'

(EPA, Fed. Reg. 9/23/88.)

Specifications subject to change without notice.

## OVERFILL PREVENTION VALVE

### Model 61F-Stop for Aboveground Pumped-In Storage Tank

The Model 61F-Stop overflow prevention valve provides a mechanical method of positive fuel oil shut-off to prevent overfilling of above ground storage tanks during a pressurized fill (pump-in fill) delivery. "The stopper" threads into the fill opening and is an integral part of the fill tube. The Preferred 61F-Stop is fully adjustable to allow for easy installation in new or existing aboveground tanks of various heights and storage capacities.

#### Operation

The stopper is a single-action, complete shut-off valve. When the liquid level rises to the specified tank capacity, the valve mechanism is released and automatically stops the flow of the product. Any excess product left between the valve and the fuel delivery coupler is drained into the tank through internal drain vents. The drain vents on the 61F-Stop act as an anti-siphon device, by introducing air/vapor into the fill line and thereby preventing the tank from being exposed to a siphon condition, resulting from a broken or leaking fill pipe. Minimum flow of 25 GPM is required for valve to function properly.

#### Suggested Specifications

Provide and install in the tank fill pipe a Preferred Utilities Mfg. Corp., Danbury, CT, Model 61F-Stop overflow prevention valve system. The unit shall have a float-operated, two-stage valve system. The main valve shall shut-off at approximately 95% of the tank capacity, leaving a small bypass valve open to permit the hose to drain. At 5" above main valve shut-off, the bypass valve will close completely to shut off all flow.

#### Specifications

<b>Valve Body:</b>	Cast aluminum
<b>Float:</b>	Closed-cell Buna-N
<b>Poppet:</b>	Cast aluminum, hard coated
<b>Cam:</b>	Stainless steel
<b>Follower:</b>	Brass
<b>Shaft:</b>	CRS zinc plated
<b>Bearing:</b>	Sintered bronze

#### Ordering Information

Model 61F-Stop for above ground "pumped in" storage tanks.



Fuel Oil Specialties

Model 61F-Stop, Overflow Prevention Valve

Specifications subject to change without notice.