OPW 71SO Overfill Prevention Valves

The CARB-certified OPW 71SO vapor-tight Overfill Prevention Valve is designed to prevent the overfill of underground storage tanks by providing a positive shut-off of product delivery. The shut-off valve is an integral part of the drop tube used for gravity filling. The OPW 71SO allows easy installation (without breaking concrete) and requires no special manholes.

The OPW 71SO is a vapor-tight two-stage shut-off valve. When the liquid level rises to about 95% of tank capacity, the valve mechanism is released, closing automatically with the flow. This reduces the flow rate to approximately 5 gpm through a bypass valve. The operator may then stop the filling process and disconnect and drain the delivery hose. As long as the liquid exceeds the 95% level, the valve will close automatically each time delivery is attempted.

If the delivery is not stopped and the liquid rises to about 98% of tank capacity, the bypass valve closes completely. No additional liquid can flow into the tank until the level drops below a reset point.

NOTE: The 71SO Overfill Prevention Valve can be adjusted to shutoff at any desired tank capacity. Please contact the Authority Having Jurisdiction (AHJ) and review local, state, and national codes to determine the regulatory requirements governing shut-off capacity in your region, as well as take into account other considerations such as extreme tank tilt. In all cases, the upper tube must protrude into the tank at least 6 1/2" to ensure that the valve can shut off flow into the tank completely before the top of the tank is wetted as per EPA requirements.

71SO Instruction Sheet Order Number: **H15524PA**

Materials

Valve Body: Cast aluminum
Float: Nitrile rubber, closed cell foam
Valve: Aluminum
Seals: Viton®
Upper & lower Drop Tube: Aluminum
Plastic parts: Acetal
Hardware: Stainless steel

Features

- **Simple, Easy and Quick Installation –** no excavation or special manholes required.
- **Economical –** costs a fraction of expensive, complicated and difficult-to-install valves.
- **Furnished Complete –** supplied with new upper and lower drop tubes, mounting hardware and thorough instructions for quick job site time.
- **Completely Automatic Operation –** no prechecks to perform, no resets and no overrides to be broken or abused.
- **No Pressurization of the Tank –** operates directly from liquid level.
- **Will Accept a Dipstick for Gauging**
- **Retrofits Directly –** for both new and existing tanks with 4" fill risers.
- **Quick Drain Feature –** automatically drains hose when head pressure is relieved.
- **Best Flow Rate in The Industry***

*** OPW Test Lab results**

Important

In order to prevent product spillage from the Underground Storage Tank (UST), properly maintained delivery equipment and a proper connection at the tight-fill adaptor are essential. Delivery personnel should be managed and trained to inspect delivery elbows and hoses for damaged and missing parts. They should always make certain there is a positive connection between the adaptor and elbow. If delivery equipment is not properly maintained, or the elbow is not securely coupled to the adaptor, a serious spill may result when the OPW 71SO closes, causing a hazard and environmental contamination.

NOTE: The OPW 71SO is designed for use on tight-fill gravity drop applications only. Do not use for pressure fill applications.

Advantages of Overfill Prevention Compared to Overfill Warning Systems:

- **Completely Automatic Operation –** does not rely on the alertness or speed of response of the delivery attendant for certainty of overfill prevention.
- **Keeps the Top of UST "Dry," per EPA Requirements –** eliminating possible leaks at loose bung fittings and the need for double containment on vent lines.
- **Does Not Rely on Pressure in the UST to Stop Flow –** allowing faster fill times and reducing spill risk.
- **Speeds Delivery Operations –** product flows unimpeded into the tank until the hose "kick" that accompanies the valve shut-off provides a clear signal that the liquid has reached the shut-off level.
- **Simple and Inexpensive Installation –** in both two-point and coaxial fill applications, no additional excavation, manholes or vent piping are required.

Listings and Certifications

California Air Resources Board

Look for this label for authentic OPW EVR Approved products.
OPW 71SOM is EVR Approved for E85

OPW
a DOVER company

Raising The Standard In Overfill Prevention

From the company that brought you the industry standard OPW 61SO, OPW raises the standard with the introduction of the **71SO Overfill Prevention Valve** – breakthrough innovation that takes overfill prevention to a whole new level of overfill perfection.

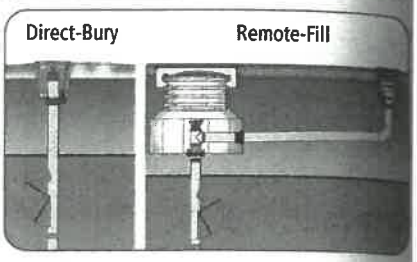
- **Eliminates curing issues due to hot or cold temperatures**
- **Easier, quicker, installation**
- **Higher quality, more reliable installation**
- **Lower costs**
- **Greater protection against fugitive emissions and pressure decay**
- **Fastest flow rate in the industry**

The new 71SO is a two-stage, positive shut-off valve, providing completely automatic operation with no pre-checks to perform, no resets, and no overrides to be broken or abused. The valve closes when the tank level rises to 95% capacity and provides a special bypass valve so the tank can be filled to a maximum capacity of 98%. The 71SO is available for direct-bury and remote applications.

CARB EVR CERTIFIED

All Vapor-Tight Overfill Valves are CARB EVR Certified

No Epoxy Sealants Required!



Replacement Parts

Part #	Description
61SOK-0001	Replacement Float Kit
H11931M	Drop Tube Seal
H14840M	Lower Tube Seal
C05117	Lower Tube
C03899M	Non-Vapor-Tight Inlet Tube
71SO-Inlet	Vapor-Tight Inlet Kit

71SO Ordering Specifications

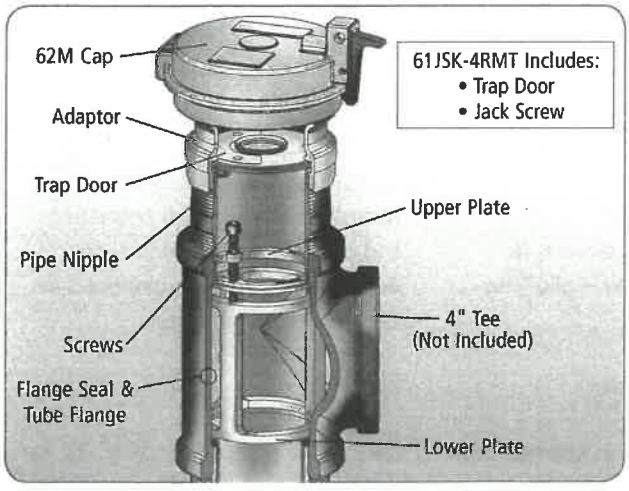
Product #	Description	Bury Depth ft.	Bury Depth m	Tank Diameter ft.	Tank Diameter m	Upper Tube Length in.	Upper Tube Length m	Lower Tube Length in.	Lower Tube Length m	Overall Length in.	Overall Length m	Max. Riser Length in.	Max. Riser Length m	Max. Nominal Tank Dia. in.	Max. Nominal Tank Dia. m	Max. Actual Tank Dia. in.	Max. Actual Tank Dia. m	Weight lbs.	Weight kg
71SO-400B*	Vapor-Tight Overfill Valve	5	1.5	8	2.4	60	1.5	83	2.1	155¾	3.9	53½	1.4	96	2.4	107	2.7	16	7
71SO-410B*	Vapor-Tight Overfill Valve	10	3.0	10	3.0	120	3.1	102	2.6	234¾	5.9	113½	2.9	120	3.1	126	3.2	25	11
71SO-420B*	Vapor-Tight Overfill Valve	10	3.0	12	3.6	120	3.1	126	3.2	258¾	6.5	113½	2.9	144	3.7	150	3.8	26	12
71SO-400C*	Vapor-Tight Overfill Valve	5	1.5	8	2.4	60	1.5	83	2.1	155¾	3.9	53½	1.4	96	2.4	107	2.7	16	7
71SO-410C*	Vapor-Tight Overfill Valve	10	3.0	10	3.0	120	3.1	102	2.6	234¾	5.9	113½	2.9	120	3.1	126	3.2	25	11
71SO-420C*	Vapor-Tight Overfill Valve	10	3.0	12	3.6	120	3.1	126	3.2	258¾	6.5	113½	2.9	144	3.7	150	3.8	26	12
71SO-4000	Non Vapor-tight Overfill Valve	5	1.5	8	2.4	60	1.5	83	2.1	155¾	3.9	53½	1.4	96	2.4	107	2.7	16	7
71SO-4010	Non Vapor-tight Overfill Valve	10	3.0	10	3.0	120	3.1	102	2.6	234¾	5.9	113½	2.9	120	3.1	126	3.2	25	11
71SOM-412C	E85 Vapor-tight Overfill Valve	10	3.0	10	3.0	120	3.1	102	2.6	234¾	5.9	113½	2.9	120	3.1	126	3.2	38	17
71SO-TOOLCT	71SO Installation Tool																	2.5	1
61JSK-4RMT	Jack Screw Kit For Vapor-Tight Remote Applications																	1.5	0.7
61JSK-4410	Jack Screw Kit For Composite Base Spill Bucketst																	1	0.5
61JSK-44CB	Jack Screw Kit For Cast Iron Base Spill Buckets																	1	0.5
71JSK-4RMT	E85 Jack Screw for Remote-Fill Applications																	1	0.5
71JSK-44MA	E85 Jack Screw for Direct-Fill Applications																	1.5	0.7

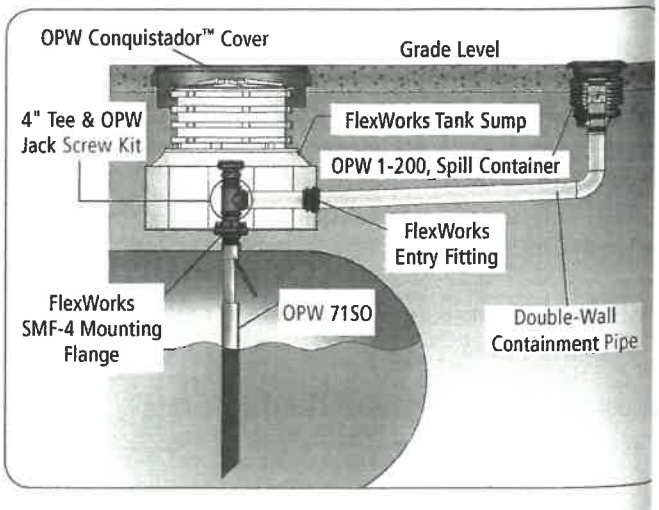
61JSK-4410 AND 61JSK-44CB Instruction Sheet Order Number: **H15289M**

*ULC B100 Compatib

71SO Vapor-Tight Remote Fill

The OPW Vapor-Tight Remote Fill is designed for two-point vapor-tight remote-fill applications, where the fill point is not directly ove the UST. A CARB approved vapor-tight 71SO overfill valve is installed in the sump through a riser pipe directly over the tank.





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