

OIL LEVER GATE VALVE

Model 110 Fire Safety Fuel Shut-off Valve

The 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. Valve operation is fully mechanical and is independent of the electrical power supply. The emergency fuel line shut-off is mandated by many local codes.

The assembly consists of a 125 lb. screwed, full-ported, bronze body and disc, lever-operated, quick-closing mechanism with zinc plated malleable iron lever, cadmium-plated steel spring, hand-lapped seats and discs, and an extra long stem packing to avoid suction line air leaks. Standard installation kit includes a 25' coil of wire and two (2) 165° F fusible links. Additional links and longer wire are available upon request. The valve can also be equipped with an automatic fuel shut-off limit switch assembly. This switch is then wired to the fuel oil management system to provide "fire" and "loss of fuel supply" alarms and interlock fuel oil pump set operation.

Application

The Model 110 oil lever gate valve is designed to be located in a horizontal pipe run where the oil supply enters the building, and/or at each point of use, or where dictated by code. Install the trip wire with the fusible link(s) in the area(s) to be monitored for excess temperature.

Operation

The precision ground metal gate is lever operated with a quarter turn required for opening or closing. The valve is held open by a stretched wire containing one or more fusible links. When the temperature at any fusible link rises above 165° F, the link will melt and the tension of the integral spring will close the valve. NOTE: on applications utilizing long wire runs with many fusible links, a weight should be added to ensure that the valve will close reliably and quickly.

Testing

As with any piece of safety equipment, the lever gate valve should be tested upon completion of installation and regularly thereafter to ensure that it will close in the event of excess temperatures. Ideally, the link furthest from the valve would be heated with a small flame until the link melts. If the valve does not snap closed properly, the wire should be checked for freedom of movement, and the mechanism of the valve should be checked for free operation. The valve may need to be cleaned and repacked with a Teflon packing or an additional weight may need to be added.

Suggested Specifications

Provide and install, where shown in the fuel oil supply line, a quick-closing, spring-loaded, lever gate valve held open by a wire with fusible link arranged so that the valve will automatically close if the link melts. The valve must be equipped with an automatic fuel shut-off limit switch assembly. Switch assembly shall be wired to the fuel oil management system to provide "fire" and "loss of fuel



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supply" alarms and interlock fuel oil pump set operation. The valve shall be a Preferred Utilities Mfg. Corp., Danbury, CT, model 110 oil lever gate valve with an automatic fuel shut-off limit switch assembly.

Ordering Information

Includes 25' cable & two (2) fusible links

Catalog Number	Size	Weight (lbs.)
011890	1"	3.4
011892	1 1/2"	5.6
011893	2"	9.4
011894	3"	22.5
add -S	Limit Switch Assembly	2
13088	Extra Cable/Link Kit	1
13084	Extra Link	0.5