

Diesel-Fuel Shutoff Valves



SV-Series

- Solenoid Operated Fuel Shutoff Valve
- Diesel Engines
- Diesel Driven Pumps and Compressors
- High Pressure Models
- Select from 12 or 24 VDC Models

Description

The SV-series valve is a normally closed valve that opens when current is supplied from the battery through a magnetic switch. Temperature, level, or pressure SWITCHGAGE® instruments installed on the engine and pump or compressor, trip the magnetic switch, breaking the circuit from the battery which closes the valve and stops the engine.

The SV-12 valve operates on 12 VDC, has a 1/4 NPT inlet and outlet, and a full 3/16 in. (5 mm) orifice. 24 VDC (SV-24) is optional. The SV valves open against 30 psi. (207 kPa) [2.07 bar] inlet pressure.

Greater Flow Rate Valve

Special series SV valve is available with a 1/4 in. (6 mm) orifice which opens against maximum pressure of 15 psi (103 kPa) [1.03 bar]. This valve is recommended where greater flow is required, and only static head or low transfer pump pressures are encountered.

High Pressure Valves

SV-HP series valves open against diesel fuel transfer pump pressure up to 60 psi (414 kPa) [4.14 bar]. Models are available for 12 or 24 volt DC systems. The orifice is 1/4 in. (6 mm), using the same inlet/outlet and options as standard SV.

Specifications

Electrical Rating:

SV-12: 12 VDC, 10 watts

SV-24: 24 VDC, 10 watts

Orifice: 3/16 in. (5 mm) diameter (optional 1/4 in. [6 mm] diameter). See chart above, right.

Body Connections: 1/4 NPT inlet/outlet

Maximum Opening Pressure:

3/16 in. (5 mm) orifice: 30 psi (207 kPa) [2.07 bar]

1/4 in. (6 mm) orifice: 15 psi (103 kPa) [1.03 bar]

SV-HP (High Pressure model)

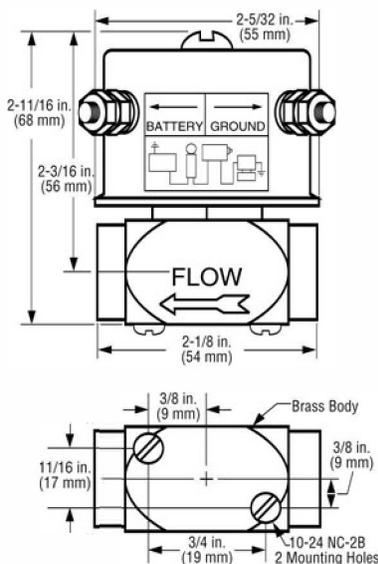
Orifice: 1/4 in. (6 mm) diameter. See chart below.

Maximum Opening Pressure:

60 psi (414 kPa) [4.14 bar].

Differential Pressure	3/16 Orifice					1/4 Orifice					
	1	2	5	10	20	30	1	2	5	10	15
Gallons per Minute	.48	.68	1.1	1.5	2.2	2.6	.72	1.05	1.65	2.35	2.70
Liters per Minute	2.01	2.85	4.62	6.3	9.24	10.92	3.02	4.41	6.93	9.87	11.34

Dimensions



Shipping Weight: 1 lb. 6 oz. (0.68 kg)

Shipping Dimension: 3 x 2-3/4 Sx 2-3/4 in. (76 x 70 x 70 mm)

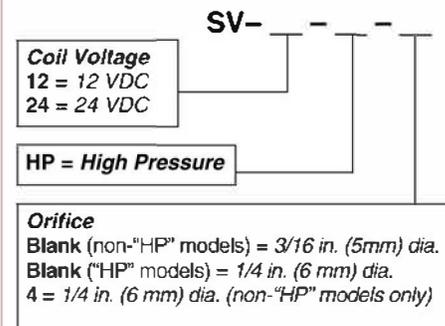
Warranty

A limited warranty on materials and workmanship is given with this Murphy product. A copy of the warranty may be viewed or printed by going to www.fwmurphy.com/warranty

How to Order

See the diagram below, example: SV-12-HP

CAUTION: NEVER use the SV valves with distributor type injection pumps. For use with DIESEL ONLY.



SV Repair Parts

The service parts callouts diagrams is shown on page 2.

Callout	Part Description	Part Number
A	Coil Replacement Kit	
	12 volt kit	55-01-0141
	24 volt kit	55-01-0145



