

Fuel Shut-off Valve for Diesel Engines



MSV-375

- For Engine Shutdown
- Manual Open
- Magnetic Latched
- Powered by Magnetic Pickup
- Compatible with Murphy SWICHGAGE® Controls
- Automatic Trip

Description

The MSV-375 is a semi-automatic fuel valve for diesel engines not having a maintained battery. It was designed for single cylinder oil field pumping machines. The MSV-375 is set manually and held open by an electrically energized coil. The coil receives its power from a magnetic pickup such as the Murphy MP-2072, mounted on a flywheel ring gear. The valve closes either manually or by a shunt-trip of the coil circuit by any SWICHGAGE®.

Specifications

Body: Brass.

Valve Seat: Buna N.

Port: 1/4 in. (6 mm) diameter.

Inlet and Outlet: 3/8 NPT.

Maximum Pressure: 90 psi (620 kPa).

Mounting Panel Thickness: 1/8 in. (3 mm) maximum.

Power Source: Magnetic pickup (MP-2072).

Pickup Mounting Thread: 5/8-18 UNF.

Minimum Requirement for Latching Power

Gap (pickup to gear): .005 to .010 in. (.127 to .254 mm).

Flywheel Speed (8 pitch gear): 390 in. (10 m) per second.

Flywheel Speed (12 pitch gear): 470 in. (12 m) per second.

To determine speed (inches per second), multiply idle RPM times ring gear diameter times 3.14 (π) and divide by 60 (see formula below).

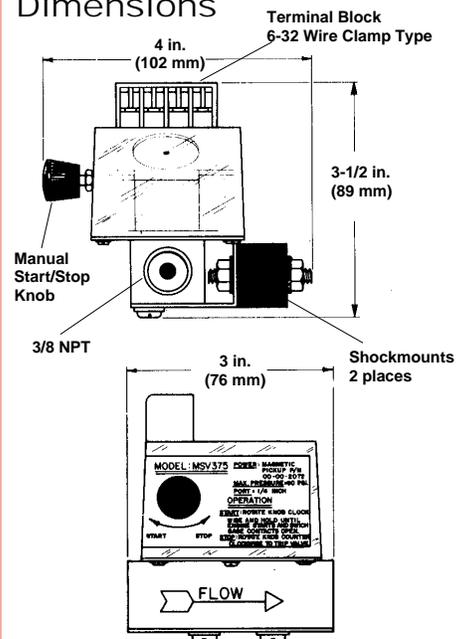
$$I.P.S = \frac{RPM \times \text{diameter} \times 3.14}{60}$$

How to Order

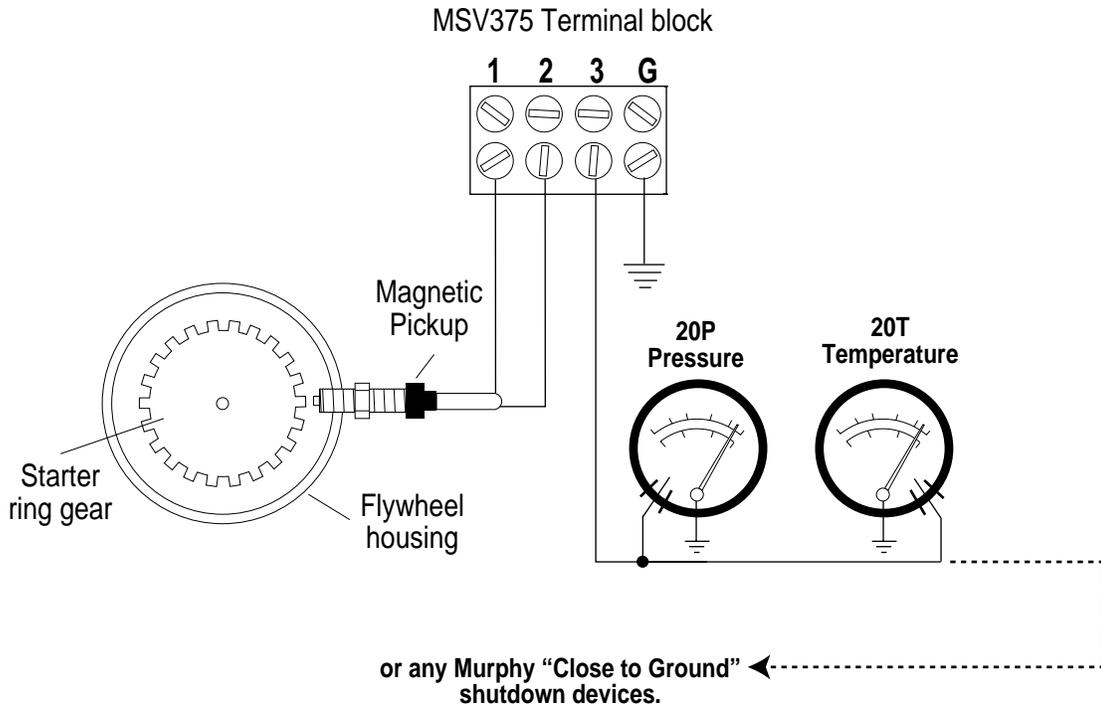
To order the MSV-375 valve specify "MSV-375".

To order the MP-2072 magnetic pickup specify "MP-2072".

Dimensions



Typical Wiring Diagram



In order to consistently bring you the highest quality, full featured products, we reserve the right to change our specifications and designs at any time.



■ **Frank W. Murphy Manufacturer**
P.O. Box 470248; Tulsa, Oklahoma 74147; USA
tel. (918) 627-3550 fax (918) 664-6146
e-mail fwmurphy@ionet.net

■ **Frank W. Murphy Southern Division**
P.O. Box 1819; Rosenberg, Texas 77471; USA
tel. (281) 342-0297 fax (281) 341-6006
e-mail murphysd@intertex.net

■ **Frank W. Murphy, Ltd.**
Church Rd.; Laverstock, Salisbury SP1 1QZ; U.K.
tel. +44 1722 410055 fax +44 1722 410088 tlx 477088
e-mail sales@fwmurphy.co.uk

■ **Frank W. Murphy Pte., Ltd.**
26 Siglap Drive; Republic of Singapore 456153
tel. +65 241-3166 fax +65 241-8382
e-mail fwmsales@fwmurphy.com.sg

■ **Murpek Pty., Ltd.**
1620 Hume Highway; Campbellfield, Vic 3061; Australia
tel. +61 3 9358-5555 fax +61 3 9358-5558
e-mail murphy@macquarrie.com.au

■ **Murphy de México, S.A. de C.V.**
Blvd. Antonio Rocha Cordero 300, Fracción del Aguaje
San Luis Potosí, S.L.P.; México 78384
tel. +52-48-206264 fax +52-48-206336
e-mail murmexsl@sanluis.podernet.com.mx

■ **Murphy Switch of California**
P.O. Box 900788; Palmdale, California 93590; USA
tel. (805) 272-4700 fax (805) 947-7570
e-mail sales@murphyswitch.com

■ **Frank W. Murphy France**
tel. +33 1 30 762626 fax +33 1 30 763989