# Pneumatic Valves for Fuel Gas Shutoff



## Description

The M2582-P and M5180-P are pneumatically controlled fuel shut-off valves that open and close automatically or semi-automatically. The pneumatic control pressure can be air, oil or gas. A manual lever aids in opening the valve when control pressure is insufficient. A gas escape vent, when properly vented and maintained, releases trapped gas from the valve after shutoff.

# **Basic Operation**

Automatic: As the control pressure/vacuum increases the valve will open. When the control pressure/vacuum decreases, the valve will close.

Semi-Automatic: If the control pressure/vacuum is too low and the valve does not open automatically, it can be opened manually by lifting the built-in lever arm and setting the latch. The latch resets automatically when control pressure rises enough to release it.

**M2582-P** is for 1 in. (25 mm) gas lines. It automatically opens at 2 psi (14 kPa) [.14 bar] and fully opens the seat at 3 psi (21 kPa) [.21 bar]. The valve can be manually opened with the lever and latch against inlet pressure of 80 psi (552 kPa) [5.52 bar]. The latch will release after pilot pressure reaches 2.5 psi (17 kPa) [.17 bar].

The M5180-P is for 2 in. (52 mm) gas lines. It automatically opens at 2 psi (14 kPa) [.14

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bar] and fully opens the seat at 3 psi (21 kPa) [.21 bar]. The valve can be manually opened with lever and latched against inlet pressure of 100 psi (689 kPa) [6.89 bar]. The latch will release after pilot pressure reaches 2.5 psi (17 kPa) [.17 bar].

Models M2582-P

and M5180-P

Air, Gas or Oil

# **Specifications**

Valve Body: Sandcast aluminum (alodined for corrosion resistance). Optional steel body available on M5180-P models only (see *How to Order*).

Valve Seat: Buna-N

Valve Inlet Pressure (Maximum): M2582-P: 80 psi (552 kPa) [5.52 bar] M5180-P: 100 psi (689 kPa) [6.89 bar]

**Parts Exposed to Gas Line Flow:** M2582-P:

- Aluminum
- Buna-N
- 302, 303, and 17-7 PH stainless steel M5180-P:
- Aluminum (Steel optional)
- Buna-N

• 302, 303, 304, and 416 stainless steel **Control Diaphragm:** Flexweave polyester fabric and Buna-N elastomer.

**Control Pressure (Maximum):** 

M2582-P: 75 psi (517 kPa) [5.17 bar] M5180-P: 80 psig (552 kPa) [5.52 bar]

# How to Order

Pneumatically Open and Shut Off Fuel Gas

Automatically or Semi-automatically

Pneumatic Control Pressure Can Be

• Models for 2 in. or 1 in. (51 mm or

25 mm) Fuel Gas Lines

To order, use the diagram below.



Body Blank = Aluminum 2 = Steel (applies to M5180-P)

## Warranty

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



**M5180-P Dimensions** 



**NOTE 1:** Control pressure connection fitting and breather vent fitting can be swapped to convert to vacuum control. **NOTE 2:** Thumb operated opening latch (2.5 psi [17 kPa] [.17 bar] required to release cocking latch). Shipping Weights

M2582-P: 5 lbs 10 oz (2.55 kg). M5180-P: 14 lbs 9 oz (6.61 kg). With steel body option "2"; 25 lbs (11.34 kg).

### **Shipping Dimensions**

M2582-P: 8-1/4 x 8-1/4 x 7-1/2 in. (210 x 210 x 191 mm). M5180-P: 12-1/4 x 12-1/4 x 9-3/4 in. (311 x 311 x 248 mm).

## **Service Parts**

Specify part number when ordering.	M2582P	M5180P
Handle and Latch Kit	55000148	55000154
Stem and Seat Kit	55000147	55000135
Top Works Complete Valve Less Body & Vent	55000150	55000155
Vent Bushing Assembly	55000143	55000132
Diaphragm Assembly	55000184	55000153
Pilot Diaphragm	00007908	55050420

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