Pneumatic Valves for Fuel Gas Shutoff
Models M2582-P and M5180-P

Features
- Pneumatically Open and Shut Off Fuel Gas
  Automatically or Semi-automatically
- Pneumatic Control Pressure Can Be Air, Gas
  or Oil
- Models for 2 in. or 1 in. (51 mm or 25 mm)
  Fuel Gas Lines

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 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].

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 psi (552 kPa) [5.52 bar]

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).

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## Dimensions

**M2582-P**

- Latch Arm (see NOTE 1)
- Breather/Vent 1/16 in. (2 mm)
- 1 NPT (2 places)
- 1/4 NPT, Vent and Plug
- 3-3/32 in. (79 mm)
- 6-9/16 in. (167 mm)
- 5-1/2 in. (140 mm)

**M5180-P**

- Latch Arm (see NOTE 2)
- Breather Vent (see NOTE 1)
- 2 NPT (2 places)
- Vent and Plug 1/2 NPT
- 9-3/8 in. (238 mm)
- 4-1/4 in. (108 mm)
- 6-1/8 in. (156 mm)
- 4-3/8 in. (111 mm)

### NOTE 1
- Thumb operated opening latch (2.5 psi [17 kPa] [0.17 bar] required to release cocking latch)

### NOTE 2
- Thumb operated opening latch (2.5 psi [17 kPa] [0.17 bar] required to release cocking latch)

### NOTE 3
- Control pressure connection fitting and breather vent fitting can be swapped to convert to vacuum control.

## Service Parts

<table>
<thead>
<tr>
<th>Specify part number when ordering.</th>
<th>M2582P</th>
<th>M5180P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handle and Latch Kit</td>
<td>55000148</td>
<td>55000154</td>
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<tr>
<td>Stem and Seat Kit</td>
<td>55000147</td>
<td>55000135</td>
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<tr>
<td>Top Works Complete Valve Less Body &amp; Vent</td>
<td>55000150</td>
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<tr>
<td>Vent Bushing Assembly</td>
<td>55000143</td>
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<td>Diaphragm Assembly</td>
<td>55000184</td>
<td>55000153</td>
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<tr>
<td>Pilot Diaphragm</td>
<td>000007908</td>
<td>55050420</td>
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</table>

## How to Order

To order, use the diagram below.

**Model**

- M2582-P
- M5180-P

**Body**

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