

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



Model M2582-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

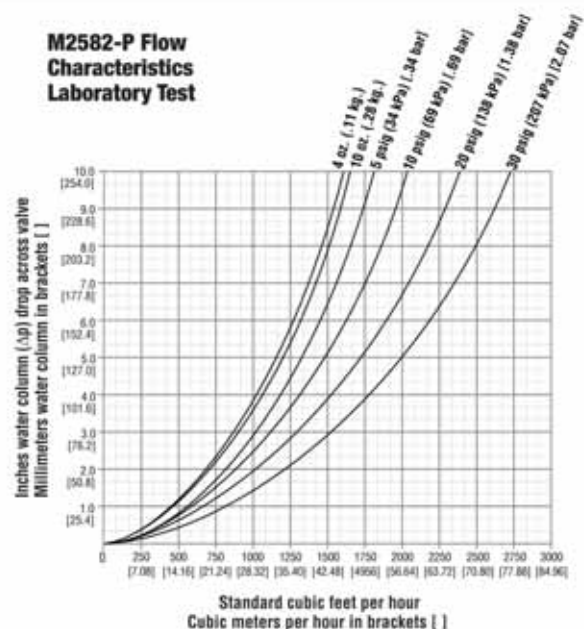
**Control Diaphragm:** Flexweave polyester fabric and Buna-N elastomer.

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

**Shipping Weights:**

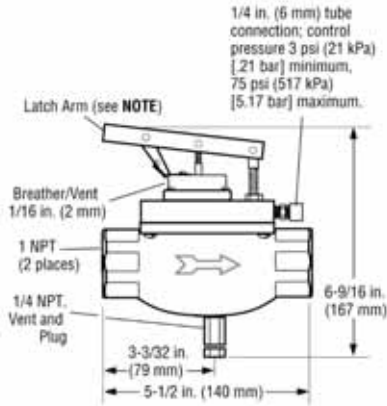
- M2582-P: 5 lbs 10 oz (2.55 kg).  
M5180-P: 14 lbs 9 oz (6.61 kg).  
With steel body option "2": 25 lbs (11.34 kg).

## M2582-P Flow Characteristics Laboratory Test

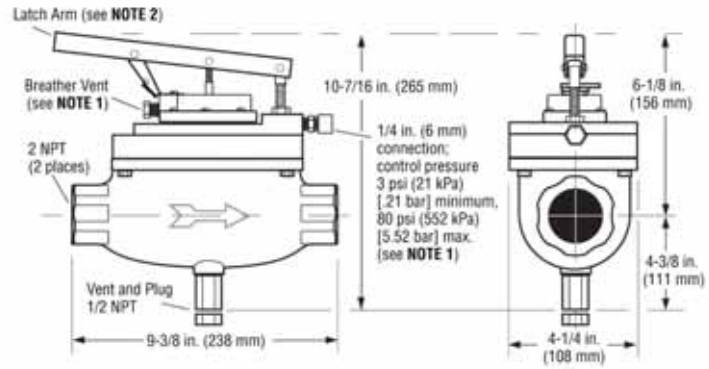


## Dimensions

### M2582-P



### M5180-P



**NOTE 1:** Thumb operated opening latch (2.5 psi [17 kPa] [.17 bar] required to release cocking latch)

**NOTE 2:** Thumb operated opening latch (2.5 psi [17 kPa] [.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

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

## How to Order

To order, use the diagram below.

