PV03 Series

The MAC Pulse Valve series is designed to be a direct drop-in replacement for existing pulse technology. The MAC solution utilizes a long life, bonded-spool design, instead of the traditional diaphragm style. MAC also uses a balanced pilot valve that isolates the solenoid from airline contamination. Available with integral solenoid pilot as well as bleed pilot configurations.

Direct Drop-in

The MAC Pulse Valve is available with various adapter options. These adapter options allow the MAC valve to directly replace the diaphragm technology with our bonded spool technology without disturbing plumbing. The MAC bleed configuration works with existing remotely located solenoids.

Harsh Environment Compatible

An aluminum die-cast body, Viton® seals and an environmentally protected solenoid are standard features. These materials allow for a wide standard temperature rating and high degree of chemical resistance.

Maintenance

Lower cost of ownership through reduction in downtime due to high reliability. When necessary, maintenance is simplified with available spool kits.

Repair Kits

<table>
<thead>
<tr>
<th>Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viton® K-PV001-05</td>
</tr>
</tbody>
</table>

Product Characteristics and Performance

<table>
<thead>
<tr>
<th>Flow</th>
<th>Temp. Range Nitrile</th>
<th>Temp Range Viton</th>
<th>Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 Cv</td>
<td>0°F - 140°F</td>
<td>-20°F - 230°F</td>
<td>40 - 120 PSI</td>
</tr>
<tr>
<td></td>
<td>-18°C - 60°C</td>
<td>-29°C - 110°C</td>
<td>2.75 - 8.27 bar</td>
</tr>
</tbody>
</table>
MAC Pulse Valve
PV03 Series

**Integral Pilot**

PV03B - XXX - 41P - DXXX - XXX = XXXX

**Remote Bleed**

PV03B - XXX - 41P - RBXX = XXXX

---

### Spool Type
- 0: Base Only
- A: N.C. Main W/Memory Spring
  - Viton® Seals Thru-out

### Base Port Size & Thread Type
- 0: Basic Valve No Base
- A: 3/4" NPTF MAC Base
- B: 1" NPTF MAC Base
- C: 3/4" BSPL MAC Base
- D: 1" BSPL MAC Base
- E: 3/4" BSPT MAC Base
- F: 1" BSPT MAC Base

### Int / Ext Pilot
- 0: Base Only
- A: Internal Pilot
- B: Ext. Pilot NPTF threads
- C: Ext. Pilot BSPL threads
- D: Ext. Pilot BSPT threads
- E: Int. Pilot BSPL threads
- F: Int. Pilot BSPT threads

### Remote Bleed
- 11: NPTF threads
- 14: BSPL threads
- 15: BSPT threads

### Solenoid Valve Options

- **DXXX - XXX**

### Lead Wire Length
- A: 18"
- B: 24"
- C: 36"
- D: 48"
- E: 72"
- F: 96"
- J: External Plug-In Lead

### Manual Operator
- 1: Non-Locking

### Electrical Connector
- BA: Grommet
- BK: Grommet w/Diode
- CM: Metal Conduit 1/2"
- CN: Metal Conduit w/Ground 1/2"
- JA: Square Plug-in
- JB: Rectangular Plug-in
- JC: Square Plug-in w/Light
- JD: Rectangular Plug-in w/Light
- JJ: Square Male Only
- JM: Rectangular Male Only
- KA: Mini Plug-in
- KB: Mini Plug-in w/Diode
- KD: Mini Plug-in w/Light
- KE: Mini Plug-in w/Light & Diode
- KC: Mini Plug-in w/LED & Diode
- KJ: Mini Plug-in Male Only
- KK: Mini Plug-in Male Only w/Diode

### Spool Kit
- K-PV001-05 Viton (includes seals and spring)

---

**PV03 Series Configuration Options**

PV03B - XXX - 41P - DXXX - XXX = XXXX

---

**PV03 Series Modifications (see below)**

PVVT Viton Seals, NPTF threads on pilot
EVVT Viton Seals, BSPL threads on pilot

---

**PV03 Series Pilot Only Options - Bodies and Assemblies**

Note: Revisions A and B are currently available and identified by 4th character in PN. **Be sure to order the same revision you are replacing**

PVVT Viton Seals, NPTF threads on pilot
PVVT Viton Seals, BSPL threads on pilot

---

**PV03 Series Modifications - One Selection Required**

PVVT Viton Seals, NPTF threads on pilot
EVVT Viton Seals, BSPL threads on pilot

---

### Spool Kit
- K-PV001-05 Viton (includes seals and spring)

---

MAC Valves, Inc  30569 Beck Rd, Wixom, MI 48393  1-248-624-7700  www.macvalves.com
MAC Pulse Valve
PV03 Series

1/8" TAPPED PORT BOTH ENDS

3/4" TAPPED PORT OR 1" TAPPED PORT TYP. (2)

MAC 3/4" & 1" BASE