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>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Viton®</td>
<td>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>30 - 120 PSI</td>
</tr>
<tr>
<td></td>
<td>-18°C - 60°C</td>
<td>-29°C - 110°C</td>
<td>2.07 - 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" BSPTR MAC Base
- F: 1" BSPTR MAC Base

**Int / Ext Pilot**

- 0: Base Only
- A: Internal Pilot
- B: Ext. Pilot NPTF threads
- C: Ext. Pilot BSPL MAC Base
- D: Ext. Pilot BSPTR threads
- E: Int. Pilot BSPL MAC Base
- F: Int. Pilot BSPTR threads

**Pilot Type**

- Integral
- P: Piped Exh.

**Remote Bleed**

- 11: NPTF threads
- 14: BSPL threads
- 15: BSPTR threads

**Solenoid Valve Options**

- **- DXXX - XXX**

**Voltage**

- JA: 120/60, 110/50
- JB: 240/60, 220/50
- JD: 100/60, 100/50, 110/60
- DA: 24VDC (5.4W)
- EW: 24VDC (8.0W)
- DB: 12VDC (5.4W)
- DC: 12VDC (7.5W)

**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

**PVVT**

- Viton Seals, NPTF threads on pilot

**EVVT**

- Viton Seals, BSPL threads on pilot

**PV03 Series**

**PVVT**

- Viton Seals, NPTF threads on pilot

**PVVT**

- Viton Seals, BSPL threads on pilot

**PVTR**

- Viton Seals, BSPTR threads on pilot

**Spool Kit**

- K-PV001-05 Viton (includes seals and spring)

**Modifications - One Selection Required**

- PV03: Viton Seals, NPTF threads on pilot
- EV03: Viton Seals, BSPL threads on pilot

**PV03 Series**

**PV03**

- Viton Seals, NPTF threads on pilot

**PV03**

- Viton Seals, BSPL threads on pilot

**PV03**

- Viton Seals, BSPTR threads on pilot

**Spool Kit**

- K-PV001-05 Viton (includes seals and spring)
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