The MAC Pulse Valve Series is designed to surpass the performance and reliability of existing pulse valve 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.

The MAC Pulse Valve can conveniently be installed in virtually any application. A traditional 90° base or optional adapter plate allows the MAC valve to directly replace diaphragm technology with our bonded spool technology without disturbing existing plumbing. You can even use existing remote solenoids or our integral solenoid pilot for the ultimate performance and reliability.

An aluminum die-cast body, Viton® seals and an environmentally protected solenoid are standard features, making the MAC valve chemical resistant and suitable for extreme temperature environments.

The MAC bonded spool pulse valves delivers lower cost of ownership through reduction in downtime and lower air consumption. When necessary, maintenance is simplified with available spool kits.

### Spool Kits

<table>
<thead>
<tr>
<th>Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viton® K-PV003-05</td>
</tr>
</tbody>
</table>

### Product Characteristics and Performance

<table>
<thead>
<tr>
<th>Flow</th>
<th>Temp Range Viton</th>
<th>Pressure Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Cv</td>
<td>-20°F - 230°F</td>
<td>30 - 120 PSI</td>
</tr>
<tr>
<td></td>
<td>-29°C - 110°C</td>
<td>2.07 - 8.27 bar</td>
</tr>
</tbody>
</table>
# MAC Pulse Valve PV09 Series

**Integral Pilot**

PV09B - XXX - 41X - DXXX - XXX = XXXX

**Remote Bleed**

PV09B - XXX - 41X - RBXX = XXXX

## Modifications (see below)

### Base Port Size & Thread Type

- **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: 2" NPTF MAC Base
  - B: 2 1/2" NPTF MAC Base
  - C: 2" BSPPL MAC Base
  - D: 2 1/2" BSPPL MAC Base
  - E: 2" BSPTR MAC Base
  - F: 2 1/2" BSPTR MAC Base

- **Int / Ext Pilot**
  - 0: Base Only
  - A: Internal Pilot
  - B: Ext. Pilot NPTF threads
  - C: Ext. Pilot BSPPL threads
  - D: Ext. Pilot BSPTR threads
  - E: Int. Pilot BSPPL threads
  - F: Int. Pilot BSPTR threads

- **Remote Bleed**
  - 0: Remote
  - 11: NPTF threads
  - 14: BSPPL 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

- 0: No 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

## 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**
- 41HA-00A-HX-DXXV-YZZ=XXXX (solenoid operated pilot valve)
- See options above and modifications below
- 41HB-00A-HX-DXXV-YZZ=XXXX (solenoid operated pilot valve)
- See options above and modifications below
- 41HA-00A-H0-RBXX=XXXX (bleed pilot valve)
- See options above and modifications below
- 41HB-00A-H0-RBXX=XXXX (bleed pilot valve)
- See options above and modifications below

### Modifications - One Selection Required

- PVVT: Viton Seals, NPTF threads on pilot
- EVVT: Viton Seals, BSPPL threads on pilot
- PVTR: Viton Seals, BSPTR threads on pilot

### Spool Kits

- K-PV003-05 Viton (includes seals and spring)

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MAC Valves, Inc  30569 Beck Rd, Wixom, MI 48393  1-800-MAC-VLVS  www.macvalves.com
MAC Pulse Valve
PV09 Series

1/8" TAPPED PORT BOTH ENDS

2" TAPPED PORT OR 2½" TAPPED PORT TYP.(2)

MAC 2" & 2.5" BASE

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