PV09 Series

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.

Direct Drop-in

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.

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

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.

Repair Kits

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

Spool Type

Base Port Size & Thread Type
0 Basic Valve No Base
A NPTF MAC Base
B NPTF MAC Base
C BSPPL MAC Base
D BSPPL MAC Base
E BSPTR MAC Base
F 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

Pilot Type
Integral
M Muffled Exh.
P Piped Exh.
Remote Bleed
0 Remote

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

Solenoid Valve Options
- DXXX - XXX

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

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

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)

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