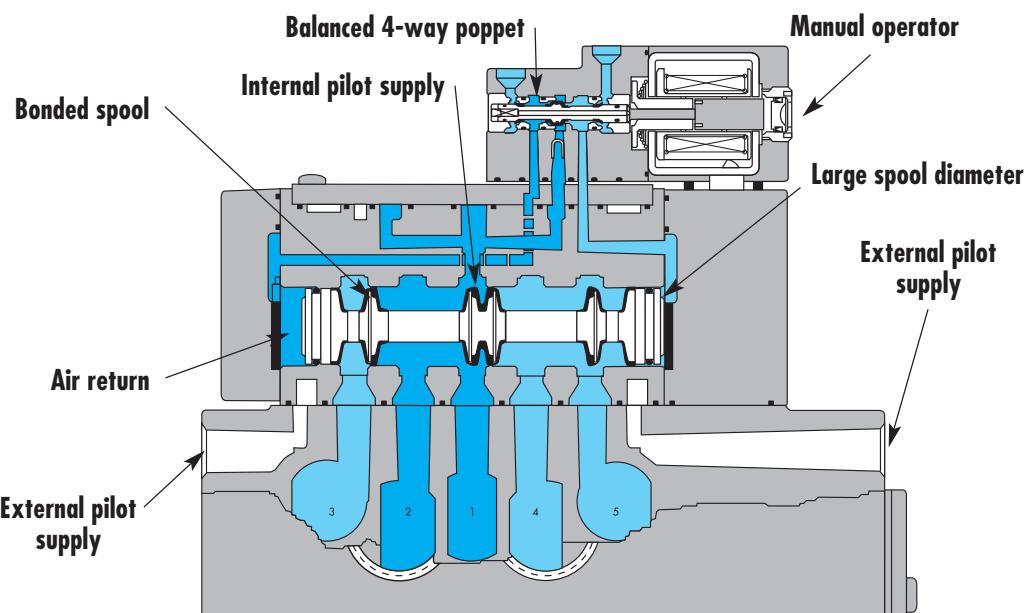


**Individual mounting**

|  |  |
|--|--|
| Valve only –<br>No base<br>non "plug-in"<br>Conform to<br>ISO 5599/1 | Valve only –<br>No base<br>"plug-in"<br>Conform to<br>ISO 5599/2 |
|--|--|

**Manifold mounting**

|  |  |
|--|--|
| Valve only –<br>No base<br>non "plug-in"<br>Conform to<br>ISO 5599/1 | Valve only –<br>No base<br>"plug-in"<br>Conform to<br>ISO 5599/2 |
|--|--|


**SERIES FEATURES**

- Plug-in (5599/2) and non plug-in (5599/1) models.
- 2-position, single or double operator. (Solenoid or Remote Air)
- 3-position, double solenoid, open center, closed center, and pressure center.
- Extended or recessed manual operators.
- Single pressure and dual pressure.
- Individual base or add-a-unit manifold base.
- Plug-in, sandwich, single and dual pressure regulators for both individual and manifold valves.



Series ISO 2

## Direct solenoid and solenoid pilot operated valves

| Function        | Port size            | Flow [Max]          | Individual/Manifold mounting  |
|-----------------|----------------------|---------------------|---|
| <b>5/2, 5/3</b> | <b>G3/8" - G1/2"</b> | <b>3000 NL/minn</b> | Valve only -<br>No base<br>non "plugin"<br>Conform to<br>ISO 5599/1 |

### OPERATIONAL BENEFITS

1. Unique patented Macsolenoid® for fastest possible response times and virtually burn-out proof AC solenoid operation.
2. Balanced poppet 4-way pilot valve provides maximum shifting forces, precise repeatability and consistent operation.
3. MAC spool and bore combination wipes away contamination, eliminates sticking and allows for use on non-lube service.
4. Large spool area for maximum shifting forces even at minimum operating pressure.
5. Very high flow in a compact package.
6. Plug-in design of valves, bases and regulators for modular assembly and ease of maintenance.
7. Internal or external pilot operation. Manifolds supplied with common external pilot.
8. Air only return. Optional memory spring is also available.
9. Optional low wattage DC solenoid down to 1.0 watt.



### HOW TO ORDER

#### SINGLE PRESSURE MODELS

| Pilot air         | 5/2<br>Single operator  | 5/2<br>Double operator | 5/3<br>Closed centre   | 5/3<br>Open centre      |
|-------------------|-------------------------|------------------------|------------------------|-------------------------|
| Internal          | MV-B2A-AAA-DM-DXXX-XXX  | MV-B2A-ABA-DM-DXXX-XXX | MV-B2A-AEA-DM-DXXX-XXX | MV-B2A-AFAA-DM-DXXX-XXX |
| External "12" end | MV-B2A-AAAB-DM-DXXX-XXX | MV-B2A-ABA-DM-DXXX-XXX | MV-B2A-AEA-DM-DXXX-XXX | MV-B2A-AFAB-DM-DXXX-XXX |

#### DUAL PRESSURE MODELS

| Pilot air              | 5/2<br>Single operator  | 5/2<br>Double operator  | 5/3<br>Pressure centre  |
|------------------------|-------------------------|-------------------------|-------------------------|
| Internal From port #3  | MV-B2A-ACAD-DM-DXXX-XXX | MV-B2A-ADAD-DM-DXXX-XXX | MV-B2A-AGAD-DM-DXXX-XXX |
| Internal From port #5  | MV-B2A-ACAE-DM-DXXX-XXX | MV-B2A-ADAE-DM-DXXX-XXX | MV-B2A-AGAE-DM-DXXX-XXX |
| External From "12" end | MV-B2A-ACAB-DM-DXXX-XXX | MV-B2A-ADAB-DM-DXXX-XXX | MV-B2A-AGAB-DM-DXXX-XXX |

#### SOLENOID OPERATOR >

#### DM-D XXX-XXX \*

| XX | Voltage     | X | Lead wire length | X | Manual operator | XX | Electrical connection            |
|----|-------------|---|------------------|---|-----------------|----|----------------------------------|
| JA | 110 V~/50Hz | A | 45 cm            | 1 | Non-locking     | KA | Square connector                 |
| JB | 220 V~/50Hz | B | 60 cm            | 2 | Locking         | KD | Square connector with light      |
| JC | 24 V~/50Hz  | J | Connector        |   |                 | JB | Rectangular connector            |
| FB | 24 V~/1,8W  |   |                  |   |                 | JD | Rectangular connector with light |
| DA | 24 V~/5,4W  |   |                  |   |                 | BA | Flying leads                     |
| DF | 24 V~/12,7W |   |                  |   |                 |    |                                  |

\* Other options available, see page options.

Note: ISO series, valve and base are ordered separately, see page for base code.

### OPTIONS

Valve function :

MV-B2A-AXXX-XX-DXXX-XXX

J for single operator universal spool (ext. pilot only)  
K for double operator universal spool (ext. pilot only)

Pilot style :

MV-B2A-AXXX-DM-DXXX-XXX

DM Pilot exhaust muffled  
DP Pilot exhaust piped (#10-32)

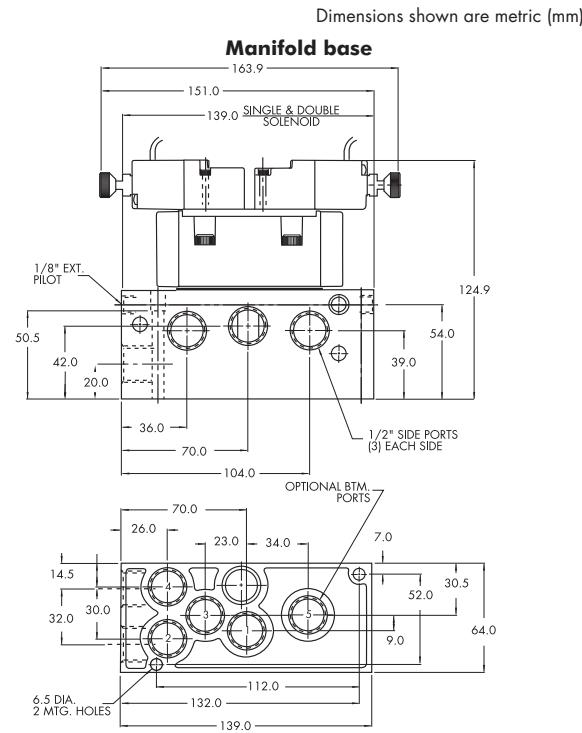
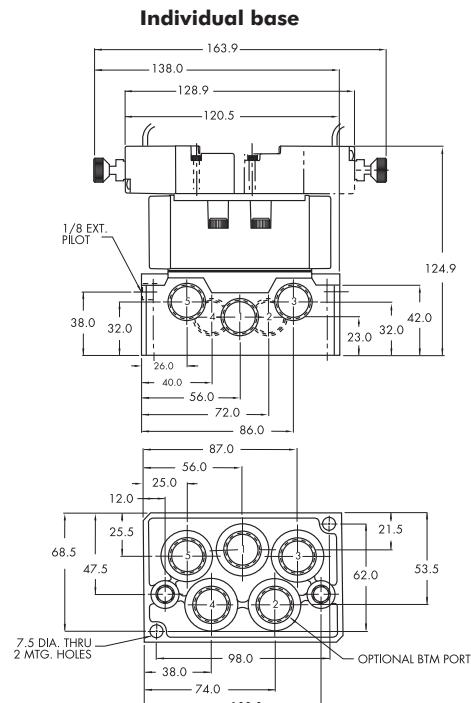
Spool return :

MV-B2A-AXXX-XX-DXXX-XXX

A Standard return  
B Memory spring return

**TECHNICAL DATA**

|                                     |  |                    |                        |
|-------------------------------------|--|--------------------|------------------------|
| Fluid :                             | Compressed air, vacuum, inert gases  |                    |                        |
| Pressure range :                    | Internal pilot: 1,3 to 8 bar<br>External pilot : vacuum to 8 bar   |                    |                        |
| Pilot pressure :                    | Single operator and 3 positions : 1,3 to 8 bar    double operator : 2 to 8 bar   |                    |                        |
| Lubrication :                       | Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)   |                    |                        |
| Filtration :                        | 40 $\mu$   |                    |                        |
| Temperature range :                 | -18°C to +50°C   |                    |                        |
| Orifice :                           | 10.5 mm  |                    |                        |
| Flow [at 6 bar, $\Delta P=1$ bar] : | G3/8": 2800 NL/min (Cv 2.8) - G1/2": 3000 NL/min (Cv 3,0)  |                    |                        |
| Coil :                              | Epoxy encapsulated - class A wires - 100% ED (specify mod 0449)  |                    |                        |
| Voltage range :                     | -15% to +10% of nominal voltage  |                    |                        |
| Protection :                        | IP65 (electrical connection)   |                    |                        |
| Power :                             | ~ Inrush 7,6 VA    Holding: 4,8 VA<br>= 12.7 to 1,0 W  |                    |                        |
| Response times :                    | 24 V=/ $5,4$ w   | Energize : 10 ms   | De-energize : 9.6 ms   |
|                                     | 110V~/50Hz   | Energize : 6-15 ms | De-energize : 10-17 ms |
| Options :                           | <ul style="list-style-type: none"> <li>• Sandwich flow controls: FCP2A-BA (screwdriver slot adjustment)<br/>FCP2A-BB (locking knob adjustment)</li> <li>• Sandwich regulator, see Regulators' section</li> </ul> |                    |                        |
| Spare parts :                       | <ul style="list-style-type: none"> <li>• Pilot valve: DMB-Dxxx-xxx</li> <li>• Valve to base pressure seal: 16576</li> <li>• Valve mounting screws (x4): 35413</li> </ul>   |                    |                        |

**DIMENSIONS**




Series ISO 2

## Direct solenoid and solenoid pilot operated valves

| Function        | Port size            | Flow [Max]         | Individual/Manifold mounting                                     |
|-----------------|----------------------|--------------------|--|
| <b>5/2, 5/3</b> | <b>G3/8" - G1/2"</b> | <b>3000 NL/min</b> | Valve only -<br>No base<br>"plug-in"<br>Conform to<br>ISO 5599/2 |

### OPERATIONAL BENEFITS

1. Unique patented Macsolenoid® for fastest possible response times and virtually burn-out proof AC solenoid operation.
2. Balanced poppet 4-way pilot valve provides maximum shifting forces, precise repeatability and consistent operation.
3. MAC spool and bore combination wipes away contamination, eliminates sticking and allows for use on non-lube service.
4. Large spool area for maximum shifting forces even at minimum operating pressure.
5. Very high flow in a compact package.
6. Plug-in design of valves, bases and regulators for modular assembly and ease of maintenance.
7. Internal or external pilot operation. Manifolds supplied with common external pilot.
8. Air only return. Optional memory spring is also available.
9. Optional low wattage DC solenoid down to 1.0 watt.



### HOW TO ORDER

#### SINGLE PRESSURE MODELS

| Pilot air         | 5/2<br>Single operator  | 5/2<br>Double operator  | 5/3<br>Closed centre    | 5/3<br>Open centre      |
|-------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Internal          | MV-P2A-AAA-DM-DXXP-XXX  | MV-P2A-ABAA-DM-DXXP-XXX | MV-P2A-AEAA-DM-DXXP-XXX | MV-P2A-AFAA-DM-DXXP-XXX |
| External "12" end | MV-P2A-AAAB-DM-DXXP-XXX | MV-P2A-ABAB-DM-DXXP-XXX | MV-P2A-AEAB-DM-DXXP-XXX | MV-P2A-AFAB-DM-DXXP-XXX |

#### DUAL PRESSURE MODELS

| Pilot air              | 5/2<br>Single operator  | 5/2<br>Double operator  | 5/3<br>Pressure centre  |
|------------------------|-------------------------|-------------------------|-------------------------|
| Internal From port #3  | MV-P2A-ACAD-DM-DXXP-XXX | MV-P2A-ADAD-DM-DXXP-XXX | MV-P2A-AGAD-DM-DXXP-XXX |
| Internal From port #5  | MV-P2A-ACAE-DM-DXXP-XXX | MV-P2A-ADAE-DM-DXXP-XXX | MV-P2A-AGAE-DM-DXXP-XXX |
| External From "12" end | MV-P2A-ACAB-DM-DXXP-XXX | MV-P2A-ADAB-DM-DXXP-XXX | MV-P2A-AGAB-DM-DXXP-XXX |

#### SOLENOID OPERATOR >

DM-D XX P-XXX \*

| XX | Voltage     | X | Manual operator | XX | Electrical connection |
|----|-------------|---|-----------------|----|-----------------------|
| JA | 110 V~/50Hz | 1 | Non-locking     | DM | Plug-in               |
| JB | 220 V~/50Hz | 2 | Locking         | DN | Plug-in with diode    |
| JC | 24 V~/50Hz  |   |                 | DP | Plug-in with M.O.V.   |
| FB | 24 V~/1,8W  |   |                 | DG | Plug-in with ground   |
| DA | 24 V~/5,4W  |   |                 |    |                       |
| DF | 24 V~/12,7W |   |                 |    |                       |

\* Other options available, see page options.

Note: - ISO series, valve and base are ordered separately, see page for base codes.

- Ground wire required for 30 volts or higher.

### OPTIONS

Valve function :

MV-P2A-AXXX-XX-DXXP-XXX

J for single operator universal spool (ext. pilot only)  
K for double operator universal spool (ext. pilot only)

Pilot style :

MV-P2A-AXXX-**DM**-DXXP-XXX

DM Pilot exhaust muffed  
DP Pilot exhaust piped (#10-32)

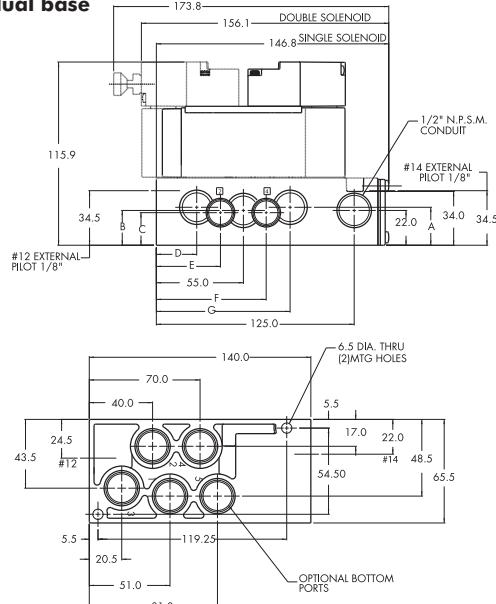
Spool return :

MV-P2A-AXX-XX-DXXP-XXX

A Standard return  
B Memory spring return  
D Standard return with light  
E Memory spring return with light

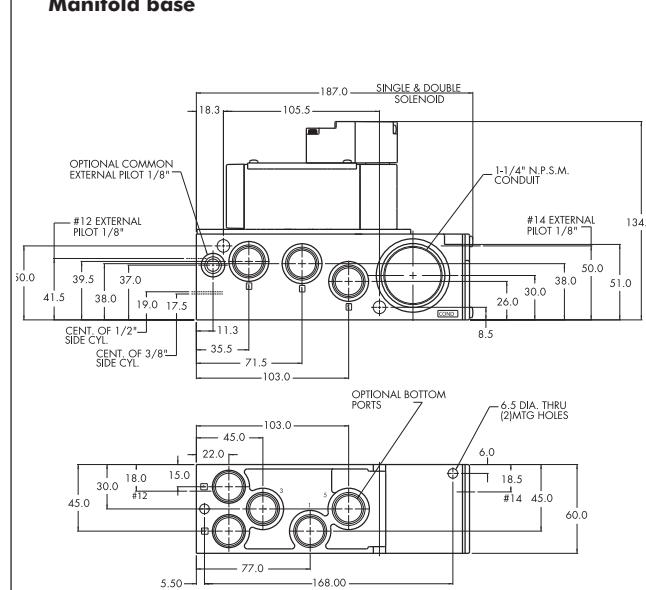
**TECHNICAL DATA**

|                                     |  |                    |                        |
|-------------------------------------|--|--------------------|------------------------|
| Fluid :                             | Compressed air, vacuum, inert gases  |                    |                        |
| Pressure range :                    | Internal pilot: 1,3 to 8 bar<br>External pilot : vacuum to 8 bar   |                    |                        |
| Pilot pressure :                    | Single operator and 3 positions : 1,3 to 8 bar    double operator : 2 to 8 bar   |                    |                        |
| Lubrication :                       | Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)   |                    |                        |
| Filtration :                        | 40 $\mu$   |                    |                        |
| Temperature range :                 | -18°C to +50°C   |                    |                        |
| Orifice :                           | 10.5 mm  |                    |                        |
| Flow [at 6 bar, $\Delta P=1$ bar] : | G3/8": 2800 NL/min (Cv 2.8) - G1/2": 3000 NL/min (Cv 3.0)  |                    |                        |
| Coil :                              | Epoxy encapsulated - class A wires - 100% ED (specify mod 0449)  |                    |                        |
| Voltage range :                     | -15% to +10% of nominal voltage  |                    |                        |
| Protection :                        | IP65 (electrical connection)   |                    |                        |
| Power :                             | $\sim$ Inrush 14,8 VA    Holding: 4,8 VA<br>$\approx$ 12.7 to 1,0 W  |                    |                        |
| Response times :                    | 24 V=/ $5,4$ w   | Energize : 10 ms   | De-energize : 9.6 ms   |
|                                     | 110V~/50Hz   | Energize : 6-15 ms | De-energize : 10-17 ms |
| Options :                           | <ul style="list-style-type: none"> <li>• Sandwich flow controls: FCP2A-AA (screwdriver slot adjustment)<br/>FCP2A-AB (locking knob adjustment)</li> <li>• Sandwich regulator, see Regulators' section</li> </ul> |                    |                        |
| Spare parts :                       | <ul style="list-style-type: none"> <li>• Pilot valve: DMB-DxxP-xxx</li> <li>• Valve to base pressure seal: 16576</li> <li>• Valve mounting screws (x4): 35413</li> </ul>   |                    |                        |

**DIMENSIONS**
**Individual base**


| DIM.         | A    | B    | C    | D    | E    | F    | G    |
|--------------|------|------|------|------|------|------|------|
| <b>G3/8"</b> | 25.2 | 22.7 | 20.6 | 26.7 | 40.5 | 69.4 | 83.3 |
| <b>G1/2"</b> | 24.0 | 21.0 | 19.0 | 25.5 | 40.0 | 70.0 | 84.5 |

Dimensions shown are metric (mm)

**Manifold base**




R e m o t e d i r e c t o r v a l v e s

## Series ISO 2

| Function         | Port size            | Flow [Max]         | Individual/Manifold mounting |
|------------------|----------------------|--------------------|------------------------------|
| <b>5/2 - 5/3</b> | <b>G3/8" - G1/2"</b> | <b>3100 NL/min</b> | Valve only<br>no base        |

### OPERATIONAL BENEFITS

1. Balanced spool, immune to variations of pressure.
2. Powerful return forces thanks to the combination of mechanical and air springs.
3. Bonded spool with minimum friction, shifting in a glass-like finished bore.
4. Wiping effect eliminates sticking.
5. Long service life.



### HOW TO ORDER

#### SINGLE PRESSURE MODELS

| Air spring | 5/2<br>Single operator | 5/2<br>Double operator | 5/3<br>Closed centre | 5/3<br>Open centre |
|------------|------------------------|------------------------|----------------------|--------------------|
| Internal   | MV-R2A-BACF            | MV-R2A-BBAK            | MV-R2A-BEAK          | MV-R2A-BFAK        |
| External   | MV-R2A-BACG            |                        |                      |                    |

#### DUAL PRESSURE MODELS

| Air spring       | 5/2<br>Single operator | 5/2<br>Double operator | 5/3<br>Open centre | 5/3<br>Pressure centre |
|------------------|------------------------|------------------------|--------------------|------------------------|
| Internal port #3 | MV-R2A-BCCH            | MV-R2A-BDAK            | MV-R2A-BHAK        | MV-R2A-BGAK            |
| Internal port #5 | MV-R2A-BCCJ            |                        |                    |                        |
| External         | MV-R2A-BCCG            |                        |                    |                        |

Note: ISO series, valve and base are ordered separately, see page for base code.



Series ISO 2

100%  
OF  
PRODUCTION  
TESTED  
100%

WARRANTY  
18  
MONTHS

#### TECHNICAL DATA

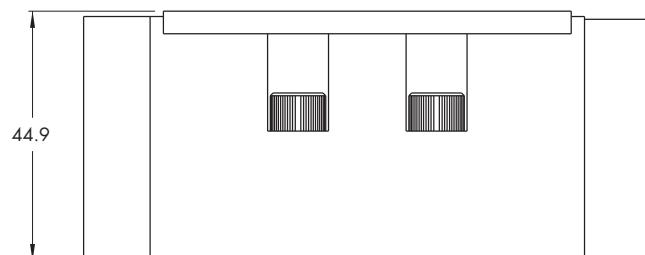
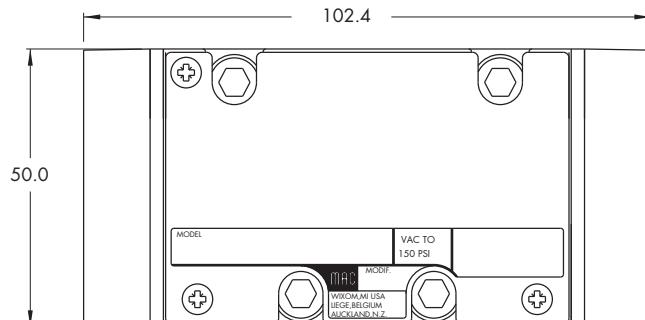
|                            |  |
|----------------------------|--|
| Fluid :                    | Compressed air, vacuum, inert gases  |
| Pressure range :           | Vacuum to 10 bar   |
| Air signal pressure :      | Single/double operator: 1,3 to 10 bar 3 position: 2 to 10 bar                          |
| Lubrication :              | Not required, if used select a medium aniline point lubricant (between 80°C and 100°C) |
| Filtration :               | 40 µ   |
| Temperature range :        | -18°C to +50°C   |
| Orifice :                  | 10,6 mm  |
| Flow (at 6 bar, ΔP=1bar) : | G3/8": 2800 Nl/min – G1/2" : 3100 Nl/min (Cv 3,1)                                      |

Spare parts :

- Valve to base pressure seal: 16576
- Valve mounting screws {x4}: 35413

#### DIMENSIONS

Dimensions shown are metric (mm)



**Non plug-in base / manifold**

**HOW TO ORDER**
**INDIVIDUAL BASE**

| Port size    | Side ports | Bottom ports | Bottom cylinder ports 2 and 4. | Bottom port 1 |
|--------------|------------|--------------|--------------------------------|---------------|
| <b>G3/8"</b> | MB-A2B-121 | MB-A2B-123   | MB-A2B-122                     | MB-A2B-124    |
| <b>G1/2"</b> | MB-A2B-131 | MB-A2B-133   | MB-A2B-132                     | MB-A2B-134    |

**INDIVIDUAL BASE ACCORDING TO VDMA 24345**

| Port size    | Side ports | Bottom ports |
|--------------|------------|--------------|
| <b>G3/8"</b> | HB-A2B-A   | HB-A2B-B     |

**MANIFOLD BASE**

| Port size    | Side ports | Bottom ports | Bottom cylinder ports 2 and 4. | Bottom port 1 |
|--------------|------------|--------------|--------------------------------|---------------|
| <b>G3/8"</b> | MM-A2B-121 | MM-A2B-123   | MM-A2B-122                     | MM-A2B-124    |
| <b>G1/2"</b> | MM-A2B-131 | MM-A2B-133   | MM-A2B-132                     | MM-A2B-134    |

Manifold fastening kit : N-63002-01.

**MANIFOLD BASE ACCORDING TO VDMA 24345**

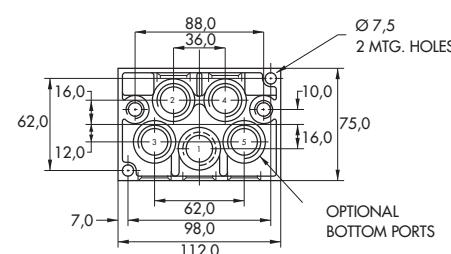
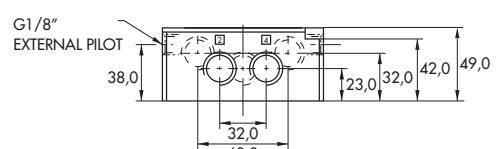
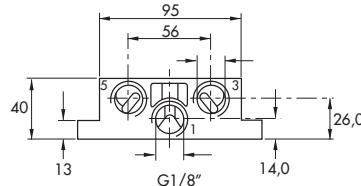
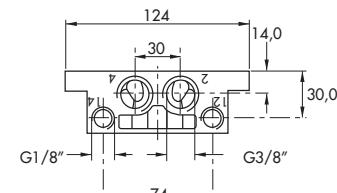
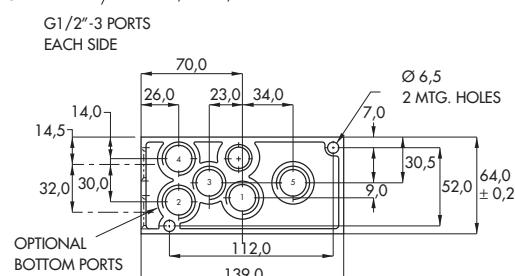
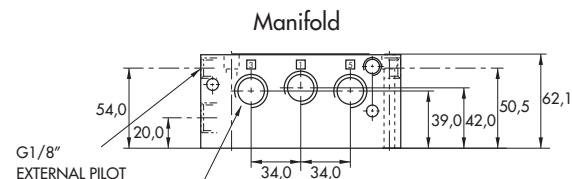
| Port size    | Side ports |
|--------------|------------|
| <b>G3/8"</b> | HM-A2B-C   |

End plate kit: HM-A2B-D.

Valve blanking plate: MA2003.  
Inlet/exhaust isolator plug: 32839.

**DIMENSIONS**

Dimensions shown are metric (mm)

**Individual**
**DIN 5599/1**

**VDMA**

**Manifold**


**Plug-in base / manifold**

**HOW TO ORDER**
**INDIVIDUAL BASE**

| Port size    | Wired for       | Side ports   | Side ports w/ bottom 2 & 4 ports | All side & bottom ports |
|--------------|-----------------|--------------|----------------------------------|-------------------------|
| <b>G3/8"</b> | Single solenoid | MB-P2A-121-A | MB-P2A-122-A                     | MB-P2A-123-A            |
|              | Double solenoid | MB-P2A-121-B | MB-P2A-122-B                     | MB-P2A-123-B            |
| <b>G1/2"</b> | Single solenoid | MB-P2A-131-A | MB-P2A-132-A                     | MB-P2A-133-A            |
|              | Double solenoid | MB-P2A-131-B | MB-P2A-132-B                     | MB-P2A-133-B            |

**MANIFOLD BASE**

| Port size    | Wired for       | Side ports   | Side ports w/ bottom 2 & 4 ports | All side & bottom ports (see note) |
|--------------|-----------------|--------------|----------------------------------|------------------------------------|
| <b>G3/8"</b> | Single solenoid | MM-P2A-121-A | MM-P2A-122-A                     | MM-P2A-123-A                       |
|              | Double solenoid | MM-P2A-121-B | MM-P2A-122-B                     | MM-P2A-123-B                       |
| <b>G1/2"</b> | Single solenoid | MM-P2A-131-A | MM-P2A-132-A                     | MM-P2A-133-A                       |
|              | Double solenoid | MM-P2A-131-B | MM-P2A-132-B                     | MM-P2A-133-B                       |

Note : Ports 1,3, and 5 are always 1/2".

**OPTIONS**

Manifold options :

External pilot

MM-P2A-12<sup>x</sup>-<sup>xx</sup>

32      33      for 3/8" port – common external pilot  
for 1/2" port – common external pilot

Terminal strip

MM-P2A-<sup>xxx</sup>-A

(N/A with light)

J      K      wired for sgl solenoid  
wired for double solenoid

Base / Manifold option: light(s)

MX-P2A-<sup>xxx</sup>-xJA

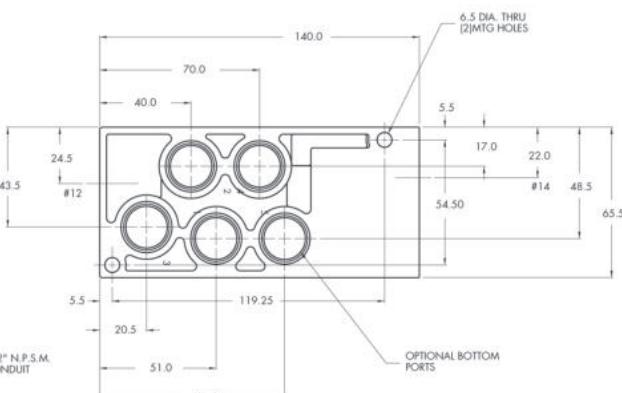
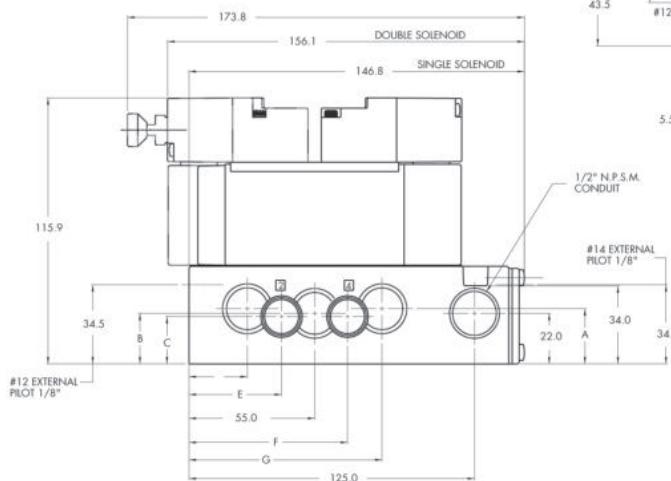
JA      110/120 volt  
JB      220/240 volt  
DA      24 volt

Accessories:    M-P2001  
                  NP2004-01  
                  32839

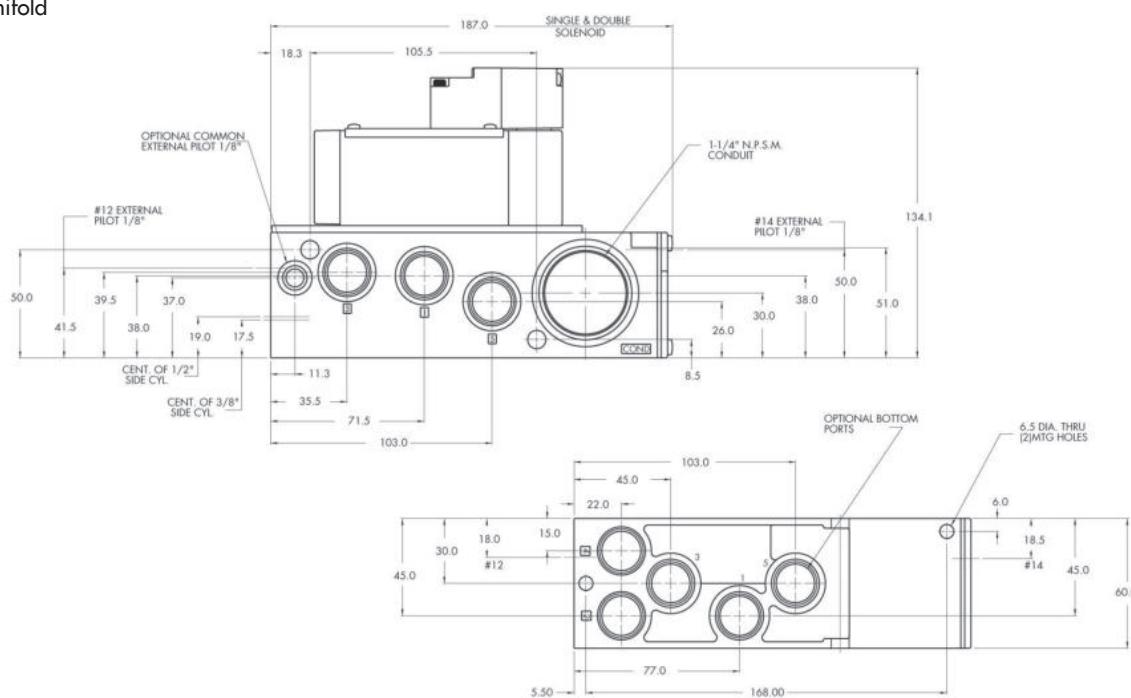
Valve blanking plate.  
Manifold fastening kit.  
Inlet/exhaust isolator plug.

**DIMENSIONS**

Dimensions shown are metric (mm)

**Individual**


| Dim         | A    | B    | C    | D    | E    | F    | G    |
|-------------|------|------|------|------|------|------|------|
| <b>3/8"</b> | 25.2 | 22.7 | 20.6 | 26.7 | 40.5 | 69.4 | 83.3 |
| <b>1/2"</b> | 24.0 | 21.0 | 19.0 | 25.5 | 40.0 | 70.0 | 84.5 |

**Manifold**




Series PRA2D

P r e s s u r e r e g u l a t o r s

**Non plug-in sandwich pressure regulator with manual adjust knob****OPERATIONAL BENEFITS**

1. Easy mounting : saves on installation costs in comparison with inline regulators.
2. Allows to have compact, all-included units.
3. Large orifice provides high flow.
4. Various functions available.
5. Simple, reliable and solid design.

**HOW TO ORDER****INTERNAL PILOT**

| Gauge   | Single pressure Regulator 14 end<br>Same regulated pressure to ports 2 and 4 | Single pressure Regulator 12 end<br>Same regulated pressure to ports 2 and 4 | Dual pressure Regulator 14 end<br>Regulated pressure to port 4 * | Dual pressure Regulator 12 end<br>Regulated pressure to port 2 * | Dual pressure Dual regulator<br>Two regulated pressures to ports 2 and 4 * |
|---|--|--|--|--|--|
| <b>No gauge</b>                                     | PRA2D-1AAA   | PRA2D-1EAA   | PRA2D-1BAA   | PRA2D-1FAA   | PRA2D-1JAA   |
| <b>Non-filled gauge on regulator(s)</b>             | PRA2D-1ADA   | PRA2D-1EDA   | PRA2D-1BDA   | PRA2D-1FDA   | PRA2D-1JEA   |
| <b>Non-filled gauge opposite to regulator</b>       | PRA2D-1CDA   | PRA2D-1GDA   | PRA2D-1DDA   | PRA2D-1HDA   | -----  |
| <b>Glycerine filled gauge on regulator(s)</b>       | PRA2D-1ABA   | PRA2D-1EBA   | PRA2D-1BBA   | PRA2D-1FBA   | PRA2D-1JCA   |
| <b>Glycerine filled gauge opposite to regulator</b> | PRA2D-1CBA   | PRA2D-1GBA   | PRA2D-1DBA   | PRA2D-1HBA   | -----  |

**EXTERNAL PILOT AND REMOTE AIR**

| Gauge   | Single pressure Regulator 14 end<br>Same regulated pressure to ports 2 and 4 | Single pressure Regulator 12 end<br>Same regulated pressure to ports 2 and 4 | Dual pressure Regulator 14 end<br>Regulated pressure to port 4 * | Dual pressure Regulator 12 end<br>Regulated pressure to port 2 * | Dual pressure Dual regulator<br>Two regulated pressures to ports 2 and 4 * |
|---|--|--|--|--|--|
| <b>No gauge</b>                                     | PRA2D-2AAA   | PRA2D-2EAA   | PRA2D-2BAA   | PRA2D-2FAA   | PRA2D-2JAA   |
| <b>Non-filled gauge on regulator(s)</b>             | PRA2D-2ADA   | PRA2D-2EDA   | PRA2D-2BDA   | PRA2D-2FDA   | PRA2D-2JEA   |
| <b>Non-filled gauge opposite to regulator</b>       | PRA2D-2CDA   | PRA2D-2GDA   | PRA2D-2DDA   | PRA2D-2HDA   | -----  |
| <b>Glycerine filled gauge on regulator(s)</b>       | PRA2D-2ABA   | PRA2D-2EBA   | PRA2D-2BBA   | PRA2D-2FBA   | PRA2D-2JCA   |
| <b>Glycerine filled gauge opposite to regulator</b> | PRA2D-2CBA   | PRA2D-2GBA   | PRA2D-2DBA   | PRA2D-2HBA   | -----  |

\* - To be used with dual pressure valves.

Note : regulating range for above models is 0-10 bar.

For other ranges see technical data page.

Main valve body assembly must be external pilot model. Pilots are supplied internally from primary pressure in regulator block. Cannot field convert regulator block from Single Pressure to dual pressure. Body/Block to base mounting screw #19177.

**ADJUSTMENT OPTIONS**

PRA2D-XXXX

**A** for slotted stem adjustment (internal pilot)  
**B** for slotted stem adjustment (external pilot)  
**D** for slotted stem with locknut (internal pilot)  
**E** for slotted stem with locknut (external pilot)



Series PRA2D

100%  
OF  
PRODUCTION  
TESTED  
100%

WARRANTY  
18  
MONTHS

#### TECHNICAL DATA

|                     |   |
|---------------------|---|
| Fluid :             | Compressed air, inert gases   |
| Pressure range :    | 0 to 10 bar   |
| Regulating range :  | 0 to 10 bar (other ranges see below)  |
| Lubrication :       | Not required, if used select a medium aniline point lubricant (between 80°C to 100°C) |
| Filtration :        | 40 µ  |
| Temperature range : | -18°C to 50°C   |
| Flow :              | 2300 NL/min (Cv 2.3)  |

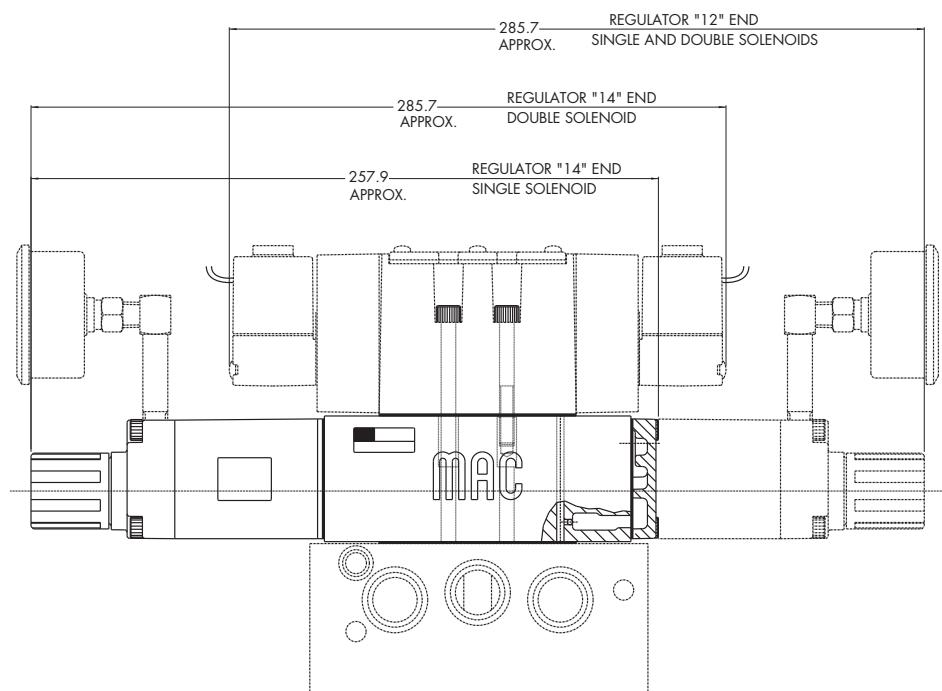
Spare parts : • Pressure regulator (less sandwich block) : PRA2D-30AA (KNOB), PRA2D-C0AA (SLOTTED STEM), PRA2D-F0AA (SLOTTED STEM WITH LOCKNUT).  
 • Gauge : • Glycerine filled : N-62015-01  
 • Non filled : N-62016-01

Regulating range options : PRA2D-XXA

Replace by B - 0 to 6,7 bar  
 Replace by C - 0 to 3 bar

#### DIMENSIONS

Dimensions shown are metric (mm)





Series **PRA2D**

P r e s s u r e r e g u l a t o r s

**Non plug-in sandwich pressure regulator with air pilot adjust**

**OPERATIONAL BENEFITS**

1. Easy mounting : saves on installation costs in comparison with inline regulators.
2. Allows to have compact, all-included units.
3. Large orifice provides high flow.
4. Various functions available.
5. Simple, reliable and solid design.



**HOW TO ORDER**

**INTERNAL PILOT**

| Gauge   | Single pressure Regulator 14 end<br>Same regulated pressure to ports 2 and 4 | Single pressure Regulator 12 end<br>Same regulated pressure to ports 2 and 4 | Dual pressure Regulator 14 end<br>Regulated pressure to port 4 * | Dual pressure Regulator 12 end<br>Regulated pressure to port 2 * | Dual pressure Dual regulator<br>Two regulated pressures to ports 2 and 4 * |
|---|--|--|--|--|--|
| <b>No gauge</b>                                     | PRA2D-4AAA   | PRA2D-4EAA   | PRA2D-4BAA   | PRA2D-4FAA   | PRA2D-4JAA   |
| <b>Non-filled gauge on regulator(s)</b>             | PRA2D-4ADA   | PRA2D-4EDA   | PRA2D-4BDA   | PRA2D-4FDA   | PRA2D-4JEA   |
| <b>Non-filled gauge opposite to regulator</b>       | PRA2D-4CDA   | PRA2D-4GDA   | PRA2D-4DDA   | PRA2D-4HDA   | -----  |
| <b>Glycerine filled gauge on regulator(s)</b>       | PRA2D-4ABA   | PRA2D-4EBA   | PRA2D-4BBA   | PRA2D-4FBA   | PRA2D-4JCA   |
| <b>Glycerine filled gauge opposite to regulator</b> | PRA2D-4CBA   | PRA2D-4GBA   | PRA2D-4DBA   | PRA2D-4HBA   | -----  |

**EXTERNAL PILOT AND REMOTE AIR**

| Gauge   | Single pressure Regulator 14 end<br>Same regulated pressure to ports 2 and 4 | Single pressure Regulator 12 end<br>Same regulated pressure to ports 2 and 4 | Dual pressure Regulator 14 end<br>Regulated pressure to port 4 * | Dual pressure Regulator 12 end<br>Regulated pressure to port 2 * | Dual pressure Dual regulator<br>Two regulated pressures to ports 2 and 4 * |
|---|--|--|--|--|--|
| <b>No gauge</b>                                     | PRA2D-5AAA   | PRA2D-5EAA   | PRA2D-5BAA   | PRA2D-5FAA   | PRA2D-5JAA   |
| <b>Non-filled gauge on regulator(s)</b>             | PRA2D-5ADA   | PRA2D-5EDA   | PRA2D-5BDA   | PRA2D-5FDA   | PRA2D-5JEA   |
| <b>Non-filled gauge opposite to regulator</b>       | PRA2D-5CDA   | PRA2D-5GDA   | PRA2D-5DDA   | PRA2D-5HDA   | -----  |
| <b>Glycerine filled gauge on regulator(s)</b>       | PRA2D-5ABA   | PRA2D-5EBA   | PRA2D-5BBA   | PRA2D-5FBA   | PRA2D-5JCA   |
| <b>Glycerine filled gauge opposite to regulator</b> | PRA2D-5CBA   | PRA2D-5GBA   | PRA2D-5DBA   | PRA2D-5HBA   | -----  |

\* - To be used with dual pressure valves.

Main valve body assembly must be external pilot model. Pilots are supplied internally from primary pressure in regulator block. Cannot field convert regulator block from Single Pressure to dual pressure. Body/Block to base mounting screw #19177.



Series PRA2D

100%  
OF  
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WARRANTY  
18  
MONTHS

#### TECHNICAL DATA

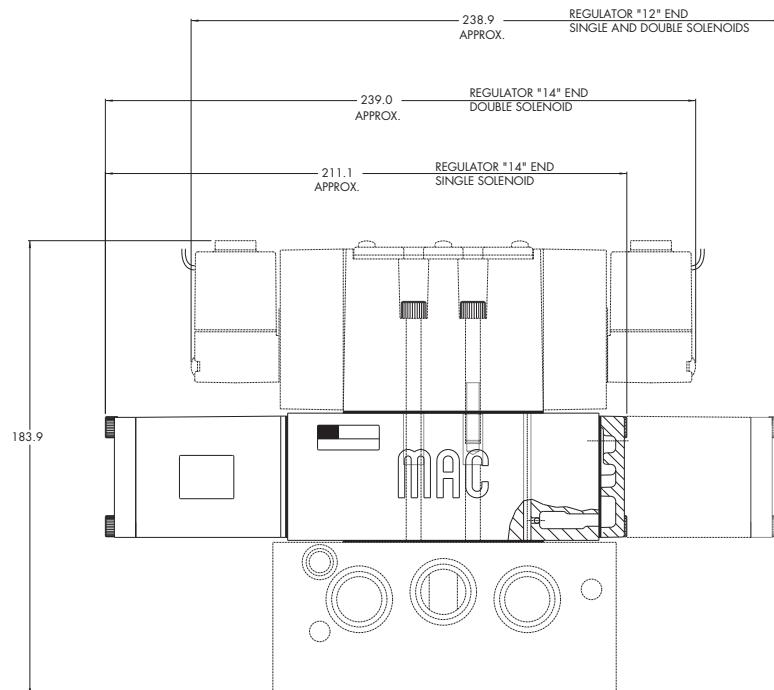
|                     |   |
|---------------------|---|
| Fluid :             | Compressed air, inert gases   |
| Pressure range :    | 0 to 10 bar   |
| Regulating range :  | 0 to 10 bar   |
| Lubrication :       | Not required, if used select a medium aniline point lubricant (between 80°C to 100°C) |
| Filtration :        | 40 µ  |
| Temperature range : | -18°C to 50°C   |
| Flow :              | 2300 NL/min (Cv 2.3)  |

#### Spare parts :

- Pressure regulator (less sandwich block) : PRA2D-60AA.
- Gauge :
  - Glycerine filled : N-62015-01
  - Non filled : N-62016-01

#### DIMENSIONS

Dimensions shown are metric (mm)





Series PRP2B

P r e s s u r e r e g u l a t o r s

**Plug-in sandwich pressure regulator with manual adjust knob**

**OPERATIONAL BENEFITS**

1. Easy mounting: saves on installation costs in comparison with inline regulators.
2. Compact all-included units.
3. Large orifice provides high flow.
4. Various functions available.
5. Simple, reliable and solid design.



**HOW TO ORDER**

REGULATORS FOR INTERNAL PILOT (CODED FOR KNOB ADJUSTMENT)

| Gauge                   | Single pressure Regulator 14 end<br>Same regulated pressure to ports 2 and 4 | Single pressure Regulator 12 end<br>Same regulated pressure to ports 2 and 4 | Dual pressure Regulator 14 end<br>Regulated pressure to port 4 * | Dual pressure Regulator 12 end<br>Regulated pressure to port 2 * | Dual pressure Dual regulator<br>Two regulated pressures to ports 2 and 4 * |
|-------------------------|--|--|--|--|--|
| <b>No gauge</b>         | PRP2B-AAAA   | PRP2B-AEAA   | PRP2B-ABAA   | PRP2B-AFAA   | PRP2B-AJAA   |
| <b>Glycerine gauge</b>  | PRP2B-AABA   | PRP2B-AEBA   | PRP2B-ABBA   | PRP2B-AFBA   | PRP2B-AJCA   |
| <b>Non-filled gauge</b> | PRP2B-AADA   | PRP2B-AEDA   | PRP2B-ABDA   | PRP2B-AFDA   | PRP2B-AJEA   |

REGULATORS FOR EXTERNAL PILOT AND REMOTE AIR (CODED FOR KNOB ADJUSTMENT)

| Gauge                   | Single pressure Regulator 14 end<br>Same regulated pressure to ports 2 and 4 | Single pressure Regulator 12 end<br>Same regulated pressure to ports 2 and 4 | Dual pressure Regulator 14 end<br>Regulated pressure to port 4 * | Dual pressure Regulator 12 end<br>Regulated pressure to port 2 * | Dual pressure Dual regulator<br>Two regulated pressures to ports 2 and 4 * |
|-------------------------|--|--|--|--|--|
| <b>No gauge</b>         | PRP2B-BAAA   | PRP2B-BEAA   | PRP2B-BBAA   | PRP2B-BFAA   | PRP2B-BJAA   |
| <b>Glycerine gauge</b>  | PRP2B-BABA   | PRP2B-BEBA   | PRP2B-BBBA   | PRP2B-BFBA   | PRP2B-BJCA   |
| <b>Non-filled gauge</b> | PRP2B-BADA   | PRP2B-BEDA   | PRP2B-BBDA   | PRP2B-BFDA   | PRP2B-BJEA   |

\* For use with dual pressure valves.

Note: Regulating range for above models is 0-10 bar. For other ranges, see technical data page.

**ADJUSTMENT OPTIONS**

|            |  |
|------------|--|
| PRP2B-XXXX |  |
| <b>G</b>   | for slotted stem (internal pilot)              |
| <b>H</b>   | for slotted stem (external pilot)              |
| <b>K</b>   | for slotted stem with locknut (internal pilot) |
| <b>L</b>   | for slotted stem with locknut (external pilot) |

Notes:

1. Valves used with above models must be external pilot models.
2. Cannot field convert regulator block from single pressure to dual pressure.
3. Cannot field convert from internal pilot to external pilot.
4. Wired for double solenoid valves.



Series PRP2B

100%  
OF  
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100%

WARRANTY  
18  
MONTHS

#### TECHNICAL DATA

|                          |   |
|--------------------------|---|
| Fluid :                  | Compressed air, inert gases   |
| Pressure range :         | 0 to 10 bar   |
| Regulating range :       | 0 to 10 bar   |
| Lubrication :            | Not required, if used select a medium aniline point lubricant ( between 80°C and 100°C) |
| Filtration :             | 40 µ  |
| Temperature range :      | -18°C to +50°C  |
| Flow (at 6 bar, ΔP=1bar) | 3100 NL/min (Cv 3.1)  |

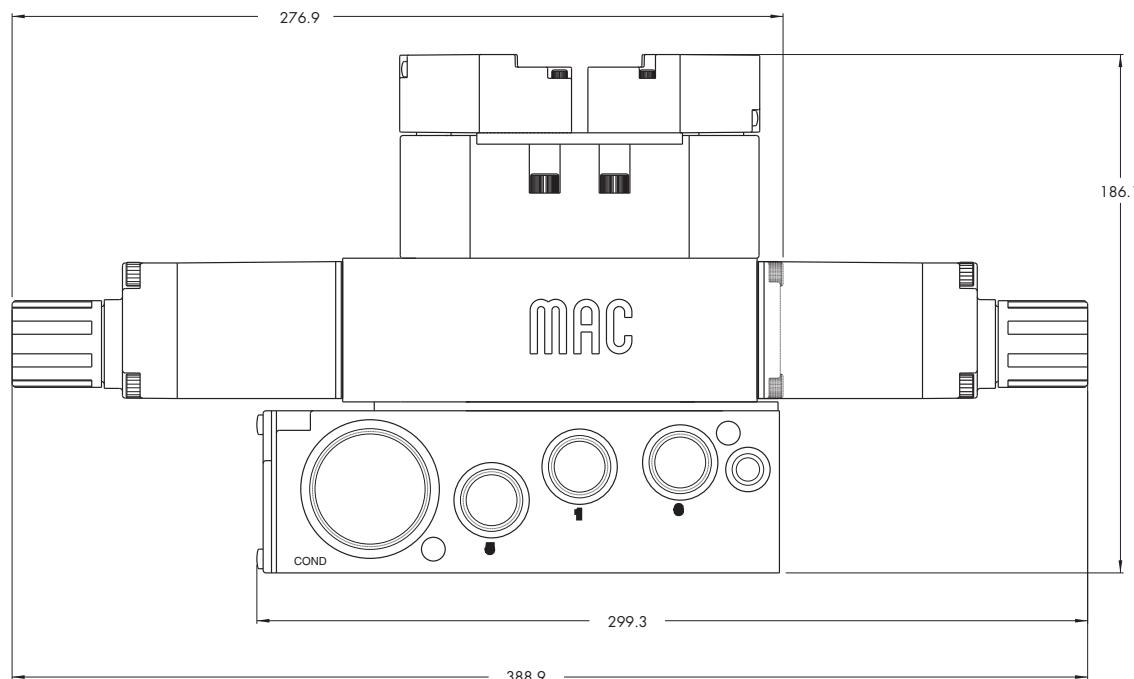
#### Spare parts :

- Pressure regulator (less sandwich block) PRP2B-C0AA (knob), PRP2B-J0AA (slotted stem), PRP2B-M0AA (slotted stem with locknut)
- Regulator block to base mounting screw: 19177
- Regulating range option: PRP2B-xxxA

Replace by B for 0 to 6,7 bar  
Replace by C for 0 to 3 bar

#### DIMENSIONS

Dimensions shown are metric (mm)





Series PRP2B

P r e s s u r e r e g u l a t o r s

**Plug-in sandwich pressure regulator with air pilot adjust****OPERATIONAL BENEFITS**

1. Easy mounting: saves on installation costs in comparison with inline regulators.
2. Compact all-included units.
3. Large orifice provides high flow.
4. Various functions available.
5. Simple, reliable and solid design.

**HOW TO ORDER****REGULATORS FOR INTERNAL PILOT**

| Gauge                   | Single pressure Regulator 14 end<br>Same regulated pressure to ports 2 and 4 | Single pressure Regulator 12 end<br>Same regulated pressure to ports 2 and 4 | Dual pressure Regulator 14 end<br>Regulated pressure to port 4 * | Dual pressure Regulator 12 end<br>Regulated pressure to port 2 * | Dual pressure Dual regulator<br>Two regulated pressures to ports 2 and 4 * |
|-------------------------|--|--|--|--|--|
| <b>No gauge</b>         | PRP2B-DAAA   | PRP2B-DEAA   | PRP2B-DBAA   | PRP2B-DFAA   | PRP2B-DJAA   |
| <b>Glycerine gauge</b>  | PRP2B-DABA   | PRP2B-DEBA   | PRP2B-DBBA   | PRP2B-DFBA   | PRP2B-DJCA   |
| <b>Non-filled gauge</b> | PRP2B-DADA   | PRP2B-DEDA   | PRP2B-DBDA   | PRP2B-DFDA   | PRP2B-DJEA   |

**REGULATORS FOR EXTERNAL PILOT AND REMOTE AIR**

| Gauge                   | Single pressure Regulator 14 end<br>Same regulated pressure to ports 2 and 4 | Single pressure Regulator 12 end<br>Same regulated pressure to ports 2 and 4 | Dual pressure Regulator 14 end<br>Regulated pressure to port 4 * | Dual pressure Regulator 12 end<br>Regulated pressure to port 2 * | Dual pressure Dual regulator<br>Two regulated pressures to ports 2 and 4 * |
|-------------------------|--|--|--|--|--|
| <b>No gauge</b>         | PRP2B-EAAA   | PRP2B-EEAA   | PRP2B-EBAA   | PRP2B-EFAA   | PRP2B-EJAA   |
| <b>Glycerine gauge</b>  | PRP2B-EABA   | PRP2B-EEBA   | PRP2B-EBBA   | PRP2B-EFBA   | PRP2B-EJCA   |
| <b>Non-filled gauge</b> | PRP2B-EADA   | PRP2B-EEDA   | PRP2B-EBDA   | PRP2B-EFDA   | PRP2B-EJEA   |

\* - To be used with dual pressure valves.

Notes:

1. Valves used with above models must be external pilot models.
2. Cannot field convert regulator block from single pressure to dual pressure.
3. Cannot field convert from internal pilot to external pilot.
4. Wired for double solenoid valves.



Series PRP2B

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18  
MONTHS

#### TECHNICAL DATA

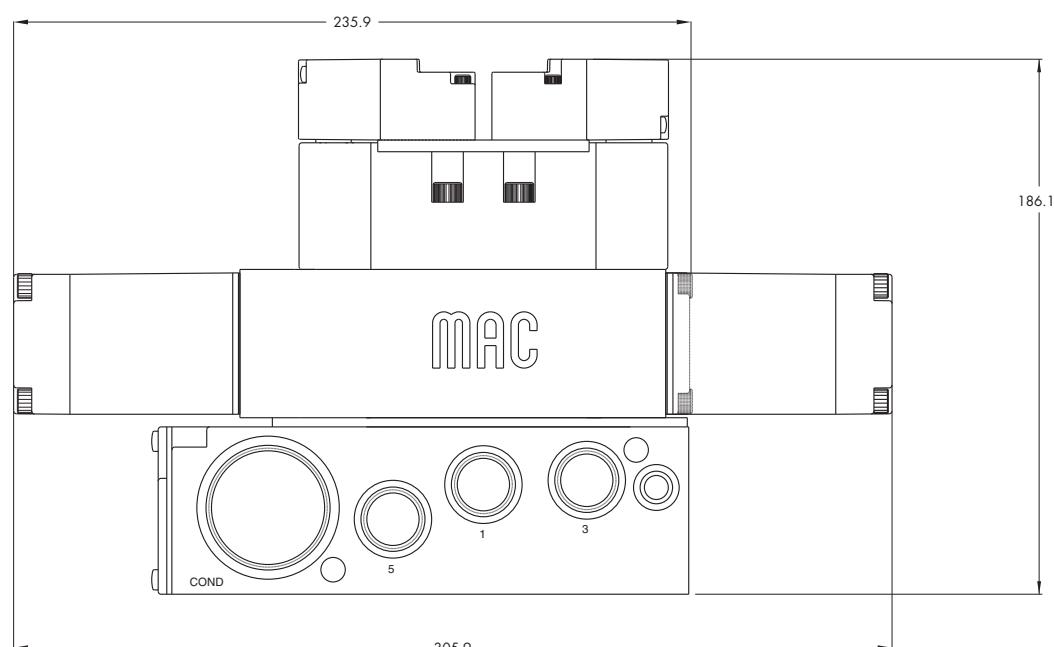
|                            |   |
|----------------------------|---|
| Fluid :                    | Compressed air, inert gases   |
| Pressure range :           | 0 to 10 bar   |
| Regulating range :         | 0 to 10 bar   |
| Lubrication :              | Not required, if used select a medium aniline point lubricant ( between 80°C and 100°C) |
| Filtration :               | 40 µ  |
| Temperature range :        | -18°C to +50°C  |
| Flow (at 6 bar, ΔP=1bar) : | 3100 NL/min (Cv 3.1)  |

#### Spare parts :

- Pressure regulator (less sandwich block): PRP2B-F0AA
- Body/block to base mounting screw: 19177

#### DIMENSIONS

Dimensions shown are metric (mm)



**Codification table for voltages / Manual operator / Electrical connection**

VALVE CODE ➤ **-DM- D XX X-X XX**  
1 2 3 4

| <b>1. VOLTAGE</b>         |  | <b>4. ELECTRICAL CONNECTION</b> |   |
|---------------------------|--|---------------------------------|---|
| <b>D-XX X-X XX</b>        | <b>VOLTAGE</b>                           | <b>D-XX X-X XX</b>              | <b>ELECTRICAL CONNECTION</b>                          |
| <b>DA</b>                 | 24V=5,4W                                 | <b>BA*</b>                      | Flying leads  |
| <b>DB</b>                 | 12V=5,4W                                 | <b>BK*</b>                      | BA with protection diode                              |
| <b>DC</b>                 | 12V=7,5W                                 | <b>BL*</b>                      | BA with protection varistor                           |
| <b>DD</b>                 | 24V=7,3W                                 | <b>BM**</b>                     | Flying leads (solenoid plug-in)                       |
| <b>DE</b>                 | 12V=12,7W                                | <b>BN**</b>                     | BM with protection diode                              |
| <b>DF</b>                 | 24V=12,7W                                | <b>BP**</b>                     | BM with protection varistor                           |
| <b>DK</b>                 | 110V=4,7W                                | <b>BG**</b>                     | BM with ground  |
| <b>DJ</b>                 | 28V=5,2W                                 | <b>BH**</b>                     | BM with protection diode & ground                     |
| <b>DL</b>                 | 64V=6W                                   | <b>BJ**</b>                     | BM with protection varistor & ground                  |
| <b>DM</b>                 | 36V=5,3W                                 | <b>CA*</b>                      | 1/2" NPS conduit with flying leads                    |
| <b>DN</b>                 | 6V=6W                                    | <b>CM*</b>                      | 1/2" NPS metal conduit with flying leads              |
| <b>DR</b>                 | 90V=6,6W                                 | <b>CN*</b>                      | 1/2" NPS metal conduit with flying leads & ground     |
| <b>DS</b>                 | 110V=7,3W                                | <b>DG</b>                       | Plug-in with ground                                   |
| <b>DT</b>                 | 75V=5,6W                                 | <b>DH</b>                       | Plug-in with diode & ground                           |
| <b>DP</b>                 | 48V=5,8W                                 | <b>DJ</b>                       | Plug-in with M.O.V. & ground                          |
| <b>FA</b>                 | 12V=1,8W                                 | <b>DM</b>                       | Plug-in   |
| <b>FB</b>                 | 24V=1,8W                                 | <b>DN</b>                       | Plug-in with diode                                    |
| <b>FE</b>                 | 12V=2,4W                                 | <b>DP</b>                       | Plug-in with M.O.V.                                   |
| <b>FF</b>                 | 24V=2,4W                                 | <b>JB</b>                       | Rectangular connector                                 |
| <b>JA</b>                 | 120V~/60Hz, 110V~/50Hz (2,9W)            | <b>JD</b>                       | Rectangular connector with light                      |
| <b>JB</b>                 | 240V~/60Hz, 220V~/50Hz (2,9W)            | <b>JM</b>                       | Rectangular connector, male only                      |
| <b>JC</b>                 | 24V~/60Hz, 24V~/50Hz (3,7W)              | <b>KA</b>                       | Square connector                                      |
| <b>JD</b>                 | 100V~/60Hz, 100V~/50Hz, 110V~60Hz (3,9W) | <b>KB</b>                       | Square connector with protection diode                |
| <b>JE</b>                 | 220V~/60Hz (3,4W)                        | <b>KC</b>                       | Square connector with protection varistor             |
| <b>JF</b>                 | 240V~/50Hz (2,8W)                        | <b>KD</b>                       | Square connector with light                           |
| <b>JG</b>                 | 200V~/60Hz, 200V~/50Hz (3,9W)            | <b>KE</b>                       | Square connector with light and protection diode      |
|                           |  | <b>KF</b>                       | Square connector with light and protection varistor   |
|                           |  | <b>KG</b>                       | Square connector with light & diode                   |
|                           |  | <b>KJ</b>                       | Square connector (male only)                          |
|                           |  | <b>KK</b>                       | Square connector with protection diode (male only)    |
|                           |  | <b>KL</b>                       | Square connector with protection varistor (male only) |
|                           |  | <b>TA</b>                       | Dual tabs with receptacles                            |
|                           |  | <b>TB</b>                       | TA with protection diode                              |
|                           |  | <b>TD</b>                       | TA with light   |
|                           |  | <b>TE</b>                       | TA with light and protection diode                    |
|                           |  | <b>TJ</b>                       | Dual tabs (male only)                                 |
|                           |  | <b>TK</b>                       | TJ with protection diode                              |
|                           |  | <b>TM</b>                       | TJ with light   |
|                           |  | <b>TN</b>                       | TJ with light and protection diode                    |
| <b>2. WIRE LENGTH</b>     |  |                                 |   |
| <b>D-XX X-X XX</b>        | <b>WIRE LENGTH</b>                       |                                 |   |
| <b>O</b>                  | No wires                                 |                                 |   |
| <b>A</b>                  | 45 cm - 18"                              |                                 |   |
| <b>B</b>                  | 60 cm - 24"                              |                                 |   |
| <b>C</b>                  | 90 cm - 36"                              |                                 |   |
| <b>D</b>                  | 120 cm - 48"                             |                                 |   |
| <b>E</b>                  | 180 cm - 72"                             |                                 |   |
| <b>F</b>                  | 240 cm - 96"                             |                                 |   |
| <b>3. MANUAL OPERATOR</b> |  |                                 |   |
| <b>D-XX X-X XX</b>        | <b>MANUAL OPERATOR</b>                   |                                 |   |
| <b>0</b>                  | No operator                              |                                 |   |
| <b>1</b>                  | Non-locking recessed                     |                                 |   |
| <b>2</b>                  | Locking recessed                         |                                 |   |
| <b>3</b>                  | Non-locking extended                     |                                 |   |
| <b>4</b>                  | Locking extended                         |                                 |   |

\* From Lead wire length options choose A through F

\*\* From Lead wire length options choose 0 through F

Note: When coil is above 30 volts, a ground wire is required. Applies to options with flying leads.