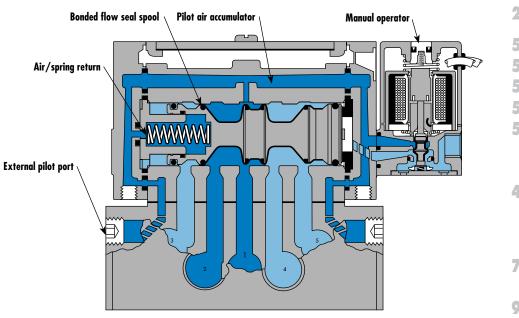


Individual mounting Series valve only 35 Manifold mounting valve only



SERIES FEATURES

- Fastest available response time with patented MACSOLENOID®.
- No-stick operation is ensured by wiping action of unique MAC spool/bore combination.
- Balanced poppet pilot valve for high flow, precise repeatability, and consistent operation.
- Large spool piston for high shifting force even at minimum operating pressure
- Air/spring return for consistent shifting on single solenoid models.
- Patented virtually burn-out proof AC solenoid.
- Optional low wattage DC solenoids down to 1.0 watt.
- Various manual operators & electrical connectors are available.
- Muffled or threaded pilot exhaust ports.
- Internal of external pilot models available.

100

200 55

56 **57**

58 **59**

45

700

900

82

6300

6500

6600

1300

800

ISO 1

ISO 3 MAC 125A MAC 250A MAC 500A







VALVE CONFIGURATIONS AVAILABLE

- 2-Pos., single or double operators (solenoid or remote air).
- Single or dual pressure.
- 3-Pos., double operator-closed center, open center or pressure center (solenoid or remote air).
- Individual base or add-a-unit manifold base.
- Internal pilot or external pilot (including a common external pilot or manifold models).
- Side porting and bottom porting options.

SPECIAL APPLICATION INSTRUCTIONS:

On all models, energizing the "14" operator (solenoid or remote air) connects Port #1 to Cylinder Port #4 and energizing the "12" operator connects Port #1 to Cylinder Port #2. For the following special applications, additional piping considerations are required.

EXTERNAL PILOT APPLICATIONS* - An External Pilot Supply is only required when the main valve pressure is less than 1.8 BARS on single operators (soleneoid or remote air) or 0.7 BARS on double solenoid valves only. In these cases, use an External Pilot

model and supply a minimum of 1.8 BARS for single operators or a minimum of 0.7 BARS for double solenoid valves to either the "14" or "12" External Pilot Port of the valve base.

VACUUM APPLICATIONS - Use an External Pilot model as described above and also connect the vacuum source to Port #3 & 5 and leave Port#1 open to atmosphere on single pressure models. On two pressure models, reverse the single pressure piping.

SELECTOR APPLICATIONS - Use an External Pilot Model as described above if both pressures are below the minimum, otherwise use an Internal Pilot model and connect the higher pressure to Port #1 and the lower pressure to either Port #3 or 5 depending on which Cylinder Port is to be active.

TWO PRESSURE APPLICATIONS - For Internal Pilot models specify the model number for connecting either port #3 or 5, whichever is to be the higher pressure, to the Internal Pilot supply. For external Pilot models, pipe as described above for "External Pilot Application."

*Note: 1Bar = 14.5 PSIG

^{*}International Standards Organization ISO Common Base Interface (ISO Std. 5599/1)



Function	Port size	Flow (Max)	Individual mounting & Manifold mounting		Series
5/2 - 5/3	3/8" - 1/2"	3.0 C _v	valve only		

OPERATIONAL BENEFITS

- 1. Balanced spool, immune to variations of pressure.
- 2. Short stroke with high flow.
- 3. The piston (booster) provides maximum shifting forces.
- 4. Powerful return force thanks to the combination of mechanical and air springs.
- Bonded spool with minimum friction, shifting in a glass-like finished bore.
- 6. Wiping effect eliminates sticking.
- 7. Pilot valve with balanced poppet, high flow, short and consistent response times.
- 8. Long service life.



35

100

200

200

55 56

57

58

59

45

700

900

82

6300

6500

6600

1300

800

ISO 1

HOW TO ORDER

SINGLE PRESSURE VALVES

Pilot air	5/2 Single operator	5/2 Double operator	5/3 Closed center	5/3 Open center
	14 4 2 12 TD T T W	14 4 2 12 17 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	14 4 2 12 34 12 12 12 12 12 12 12 12 12 12 12 12 12	14 4 2 12 37 37 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Internal	MV-A2B-A111-PM-xxyzz	MV-A2B-A211-PM-xxyzz	MV-A2B-A312-PM-XXYZZ	MV-A2B-A311-PM-xxyzz
External	MV-A2B-A121-PM-XXYZZ	MV-A2B-A221-PM-XXYZZ	MV-A2B-A322-PM-xxyzz	MV-A2B-A321-PM-xxyzz

DUAL PRESSURE VALVES

Pilot air	5/2 Single operator	5/2 Double operator	5/3 Pressure center
	14 4 2 12 15 5 1 3	14 4 2 12 	14 12 15 1 1 3 2 1 2
Internal port 3	MV-A2B-A131-PM-xxyzz	MV-A2B-A231-PM-XXYZZ	MV-A2B-A331-PM-xxyzz
Internal port 5	MV-A2B-A135-PM-XXYZZ	MV-A2B-A232-PM-XXYZZ	MV-A2B-A332-PM-xxyzz
External	MV-A2B-A141-PM-XXYZZ	MV-A2B-A241-PM-xxyzz	MV-A2B-A341-PM-XXYZZ

SOLENO	OID OPERATOR >		XX 1 <u>ZZ</u>		
XX	Voltage	Y	Manual operator	ZZ	Electrical connection
11	120/60, 110/50	1	Non-locking	JB	Rectangular connector
12	240/60, 220/50	2	Locking	JD	Rectangular connector with light
22	24/60, 24/50			JA	Square connector
59	24 VDC (2.5 W)			JC	Square connector with light
<i>87</i>	24 VDC (17.1 W)			BA	Flying leads (18")
61	24 VDC (8.5 W)			Note : Ph	oto shown with JC connector.

^{*} Other options available, see page 357.

Note: ISO valves are delivered w/o base. See page 281 for base code.

OPTIONS

MV-A2B-A111-PM-xxyzz

- - For CNOMO pilot, consult factory.

- - For universal spool replace by 6 (2 position, sgl. pressure valves only)

- - For use with single pressure sandwich regulator, replace by 5.

ISO 3 MAC 125A MAC 250A MAC 500A







TECHNICAL DATA

Response times:

Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal pilot: single operator and 3 positions: 25-150 PSI double operator: 10-150 PSI

External pilot : vacuum to 150 PSI

Pilot pressure: Single operator and 3 positions: 25-150 PSI Double operator: 10-150 PSI

Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F to 210°F)

Filtration: 40

Temperature range: 0°F to 120°F (-18°C to 50°C)

Flow (at 6 bar, $\Delta P=1bar$): 3/8": (3.0 C_v), 1/2": (3.0 C_v)

Coil: Epoxy encapsulated - class A wires - Continuous duty

Voltage range: -15% to +10% of nominal voltage

Protection: Consult factory

Power: ~ Inrush: 14.8 VA Holding: 10.9 VA

= 1 to 17.1 W24 VDC (8.5 W)

120/60 Energize : 6-15 ms De-energize : 10-17 ms

Spare parts : • Solenoid operator (power ≥ 4 W) : D1-XXAA, cover mounting screws 35206 and seal 16234.

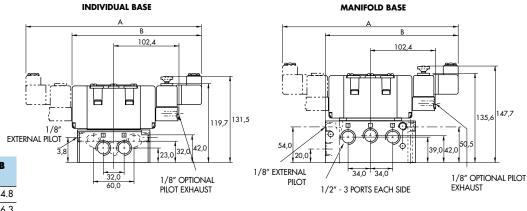
Energize: 10 ms

• Pilot valve: PME-XXYZZ, including seal 16337. • Pressure seal between valve and base: 16351.

• Mounting screw valve to base (x4): 35412.

DIMENSIONS Dimensions shown are metric (mm)

De-energize: 15 ms



TYPE A B

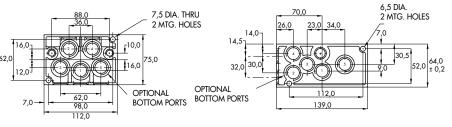
JA & JC 291.6 214.8

ISO 2 Manifold mounting

JB & JD 314.6 226.3

ISO 2 Individual mounting

TYPE	A	В
JA & JC	291.6	212.3
JB & JD	314.6	223.8





MV-A1C ISO 1 MV-A2B ISO 2 MV-A3B ISO 3 MAC ISO valves are built to International Standards Organization (ISO) Std. 5599/1. They are available in 3 sizes; ISO 1, 2 & 3. To select th ISO size required, insert the appropriate ISO number in the 5th position of the model code; EXAMPLE MV-A1C for ISO 1, MV-A2B for ISO 2, or MV-A3B for ISO 3.

Bases and manifolds must be ordered separately from the table below.

HOW TO ORDER

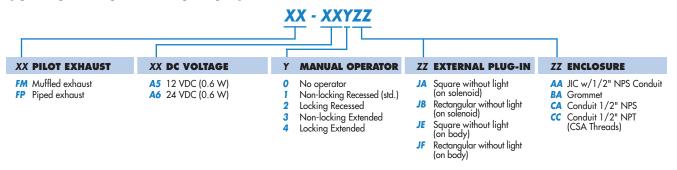
SOLENOID PILOT OPERATED VALVES LESS BASE SINGLE PRESSURE VALVES

SGL. OPERATOR AIR/SPRING RETURN	DBL. OPERATOR 2-POSITION	PILOT SUPPLY	DBL. OPER. 3-POS. CLOSED CENTER	DBL. OPER. 3-POS. OPEN CENTER
MV-AXB-A111-FM-A51JA MV-AXB-A121-FM-A51JA MV-AXB-A151-FM-A51JA	MV-AXB-A211-FM-A51JA MV-AXB-A221-FM-A51JA MV-AXB-A251-FM-A51JA	Internal Pilot External Pilot External Pilot for use with Regulator	MV-AXB-A312-FM-A51JA MV-AXB-A322-FM-A51JA MV-AXB-A352-FM-A51JA	MV-AXB-A311-FM-A51JA MV-AXB-A321-FM-A51JA MV-AXB-A351-FM-A51JA

DUAL PRESSURE VALVES

SGL. OPERATOR AIR/SPRING RETURN	DBL. OPERATOR 2-POSITION	PILOT SUPPLY	DBL. OPER. 3-POS. PRESSURE CENTER
MV-AXB-A131-FM-A51JA	MV-AXB-A231-FM-A51JA	Int. Pilot-From Port 3	MV-AXB-A331-FM-A51JA
MV-AXB-A135-FM-A51JA	MV-AXB-A232-FM-A51JA	Int. Pilot-From Port 5	MV-AXB-A332-FM-A51JA
MV-AXB-A141-FM-A51JA	MV-AXB-A241-FM-A51JA	External Pilot	MV-AXB-A341-FM-A51JA

SOLENOID PILOT VALVE OPTIONS



BASE TABLE

ISO TYPE	PORT SIZE	INDIVIDUA BSPP	L BASE NPTF	MANIFOLD BSPP	BASE NPTF
ISO 1	1/4"	MB-A1C-121	MB-A1C-221	MM-A1C-121	MM-A1C-221
	3/8"	MB-A1C-131	MB-A1C-231	MM-A1C-131	MM-A1C-231
ISO 2	3/8"	MB-A2B-121	MB-A2B-221	MM-A2B-121	MM-A2B-221
	1/2"	MB-A2B-131	MB-A2B-231	MM-A2B-131	MM-A2B-231
ISO 3	1/2"	MB-A3B-121	MB-A3B-221	MM-A3B-121	N/A
	3/4"	MB-A3B-131	MB-A3B-231	MM-A3B-131	N/A

For manifold bases a common external pilot port is available. One connection only is required for all valves in the manifold whether single or double solenoid. Bottom ports are also available; consult factory for ordering information for these options.

MANIFOLD FASTENING KIT — For each gang, one kit is required. To order specify par number N-63002-01.



Series



ISO 1

ISO 2

ISO 3

HOW TO ORDER

INDIVIDUAL BASE

Port size	Side ports	Side & bottom ports	Bottom cylinder ports 2 and 4.	Bottom inlet port 1
3/8" NPTF	MB-A2B-221	MB-A2B-223	MB-A2B-222	MB-A2B-224
1/2" NPTF	MB-A2B-231	MB-A2B-233	MB-A2B-232	MB-A2B-234

MANIFOLD BASE

Port size	Side ports	Bottom ports	Bottom cylinder ports 2 and 4.	Bottom inlet port 1
3/8" NPTF	MM-A2B-221	MM-A2B-223	MM-A2B-222	MM-A2B-224
1/2" NPTF	MM-A2B-231	MM-A2B-233	MM-A2B-232	MM-A2B-234

Manifold fastening kit: N-63002-01.

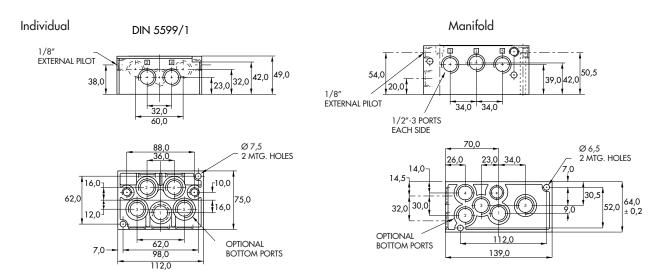






DIMENSIONS

Dimensions shown are metric (mm)



Codification table for voltages / Manual operator / Electrical connection / Wire length

VALVE CODE > $-\frac{XX}{1} \frac{Y}{2} \frac{ZZ}{3} \frac{(-VV)}{4}$

OPTIONS AVAILABLE FOR	OPTIONS AVAILABLE FOR
valves type 100 Series pilot valves "CNOMO"	- valves type 200 Series
Pilot operated valves with pilots type 100 Series Series : 55 - 56 - 700 - 800 - 900 - 6300 - 6500 - 6600 - 1300	- pilot operated valves with pilots type 200 Series Series: 200 - 57 - 58 - 59.
- ISO 1 - ISO 2 - ISO 3. - MAC 125 - MAC 250 - MAC 500	



Direct solenoid and solenoid pilot operated valves

Function	Port size	Floш (Max)	Individual/Manifold mounting	Series
5/2, 5/3	3/8" - 1/2"	3.0 C _V	Valve only – No base "plug-in" Conform to ISA 5.509/2	

OPERATIONAL BENEFITS

- 1. Unique patented Macsolenoid® for fastest possible response times and virtually burnout 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
- 8. Air only return. Optional memory spring is also available.
- 9. Optional low wattage DC solenoid down to 1.0 watt.



33

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37 38

52

69

44 46

42

47

48P 48

400

92

93

ISO 01 ISO 02

HOW TO ORDER

SINGLE PRESSURE MODELS

Pilot air	5/2 Single operator	5/2 Double operator	5/3 Closed center	5/3 Open center
	14 4 2 12 14 7 12 15 10 1 3	14 4 2 12 T V T T T T T T T T T T T T T T T T T T	14 4 2 12 34 12 12 12 12 12 12 12 12 12 12 12 12 12	14 4 2 12 14
Internal	MV-P2A-AAAA-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 Single operator	5/2 Double operator	5/3 Pressure center
	14 4 2 12 12 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	14 4 2 12 	
Internal pilot From port #3	MV-P2A-ACAD-DM-DxxP-xxx	MV-P2A-ADAD-DM-DxxP-xxx	MV-P2A-AGAD-DM-DxxP-xxx
Internal pilot From port #5	MV-P2A-ACAE-DM-DxxP-xxx	MV-P2A-ADAE-DM-DxxP-xxx	MV-P2A-AGAE-DM-DxxP-xxx
External pilot From "12" end	MV-P2A-ACAB-DM-DxxP-xxx	MV-P2A-ADAB-DM-DxxP-xxx	MV-P2A-AGAB-DM-DxxP-xxx

SOLENOID OPERATOR ➤

XX	Voltage	X	Manual operator	ХХ	Electrical connection
JA	110/50, 120/60	1	Non-locking recessed	DM	Plug-in
JB	220/50, 240/60	2	Locking recessed	DN	Plug-in with diode
JC	24/50, 24/60			DP	Plug-in with M.O.V.
FB	24 VDC (1.8W)			DG	Plug-in with ground
DA	24 VDC (5.4W)				
DF	24 VDC (12.7W)				

DM-D xx P-xxx*

Other options available, see page 309.

ote: - ISO series, valve and base are ordered separately, see page 237 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 muffled Pilot exhaust piped (#10-32)

Spool return:

MV-P2A-AXAX-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: 20 to 120 PSI

External pilot: vacuum to 120 PSI

Pilot pressure: Single/double operator: 20 to 120 PSI, 3 positions: 30 to 120 PSI

Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)

Filtration: 40 µ

Response times:

Options:

Temperature range: 0°F to 120°F (-18°C to +50°C)

3/8": (2.8 C_v) - 1/2": (3.0 C_v)

Class A continuous duty, #18 AWG x 12 base leads

Voltage range: -15% to +10% of nominal voltage

Protection: Consult factory

Power: ~ Inrush 14.8 VA Holding: 10.9 VA

= 12.7 to 1.0 W24 VDC 5.4w

120/60 Energize : 6-15 ms De-energize : 10-17 ms

Sandwich flow controls: FCP2A-AA (screwdriver slot adjustment)

Energize: 10 ms

FCP2A-AB (locking knob adjustment)
• Sandwich regulator, see ,Regulators' section

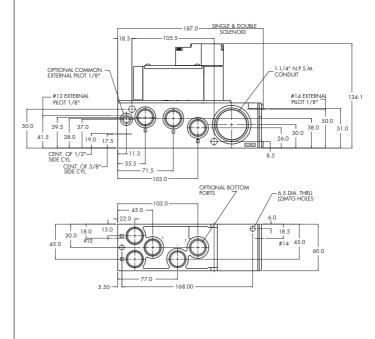
Spare parts : • Pilot valve: DMB-DxxP-xxx • Valve to base pressure seal: 16576

• Valve mounting screws (x4): 35413

DIMENSIONS Individual base - 156.1 DOUBLE SOLENOID 146.8 SINGLE SOLENOID – 1/2" N.P.S.M CONDUIT #14 EXTERNAL PILOT 1/8" #12 EXTERNAL PILOT 1/8" -125.0 54.50 OPTIONAL BOTTOM PORTS 51.0 3/8" 25.2 22.7 20.6 26.7 40.5 69.4 83.3 1/2" 24.0 21.0 19.0 25.5 40.0 70.0 84.5

Manifold base

De-energize: 9.6 ms





Function	Port size	Flow (Max)	Individual/Manifold mounting Series	
5/2 - 5/3	3/8" - 1/2"	3.1 C _v	Valve only – 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.



400

67

60

IICO

ISO 2

ISO 3

HOW TO ORDER

SINGLE PRESSURE MODELS

OII YOLL I KLOOOKL MODEL	.0			
Air spring	5/2 Single operator	5/2 Double operator	5/3 Closed center	5/3 Open center
	14 4 2 12 	14	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	14 4 2 12 - D
Internal	MV-R2A-BACF	AAV DOA DDAV	MANADON DENK	MAN DON DEAK
External	MV-R2A-BACG	MV-R2A-BBAK	MV-R2A-BEAK	MV-R2A-BFAK

DUAL PRESSURE MODELS

Air spring	5/2 Single operator	5/2 Double operator	5/3 Open center	5/3 Pressure center
	14 4 2 12 	14 4 2 12 	14 4 2 12 	14 4 2 12
Internal port #3	MV-R2A-BCCH			
Internal port #5	MV-R2A-BCCJ	MV-R2A-BDAK	MV-R2A-BHAK	MV-R2A-BGAK
External	MV-R2A-BCCG			

Note: ISO series, valve and base are ordered separately, see page 235 for base code.







TECHNICAL DATA

Fluid: Compressed air, vacuum, inert gases

Pressure range: Vacuum to 150 PSI

Air signal pressure: Single/double operator: 20 to 150 PSI 3 position: 30 to 150 PSI

Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)

Filtration:

40 μ 0°F to 120°F (-18°C to 50°C)

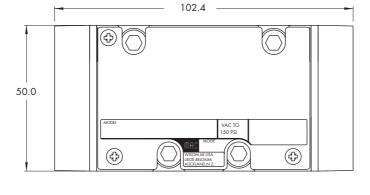
Temperature range: 0°F to 120°F (-18°C to 50°C)

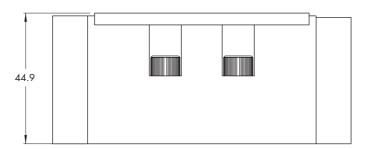
low: 3/8": (2.8 Cv) - 1/2": (3.1 Cv)

Spare parts : • Valve to base pressure seal: 16576 • Valve mounting screws (x4): 35413

DIMENSIONS

Dimensions shown are metric (mm)







Series

Non plug-in base / manifold



ISO 01

ISO 02

ISO 1

ISO 3

HOW TO ORDER

INDIVIDUAL BASE

Port size	Side ports	Bottom ports	Bottom cylinder ports 2 and 4.	Bottom inlet port 1
3/8" NPTF	MB-A2B-221	MB-A2B-223	MB-A2B-222	MB-A2B-224
1/2" NPTF	MB-A2B-231	MB-A2B-233	MB-A2B-232	MB-A2B-234

MANIFOLD BASE

Port size	Side ports	Bottom ports	Bottom cylinder ports 2 and 4.	Bottom inlet port 1
3/8" NPTF	MM-A2B-221	MM-A2B-223	MM-A2B-222	MM-A2B-224
1/2" NPTF	MM-A2B-231	MM-A2B-233	MM-A2B-232	MM-A2B-234

Manifold fastening kit: N-63002-01. Valve blanking plate: MA2003. Inlet/exhaust isolator plug: 32839.

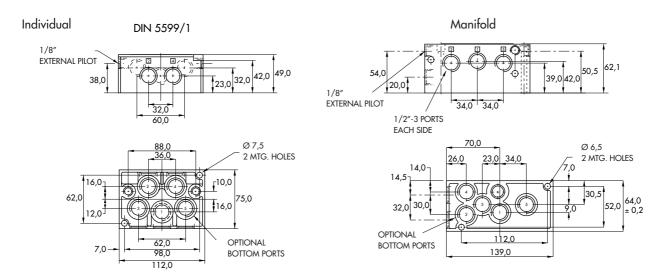






DIMENSIONS

Dimensions shown are metric (mm)





Series

Plug-in base / manifold



ISO 01

ISO 02

ISO 1

ISO 3

HOW TO ORDER

INDIVIDUAL BASE

Port size	Wired for	Side ports	Side ports w/ bottom 2 & 4 ports	All side & bottom ports
3/8" NPTF	Single solenoid	MB-P2A-221-A	MB-P2A-222-A	MB-P2A-223-A
3/0" NPIF	Double solenoid	MB-P2A-221-B	MB-P2A-222-B	MB-P2A-223-B
1/2" NPTF	Single solenoid	MB-P2A-231-A	MB-P2A-232-A	MB-P2A-233-A
	Double solenoid	MB-P2A-231-B	MB-P2A-232-B	MB-P2A-233-B

MANIFOLD BASE

Wired for	Side ports	Side ports w/ bottom 2 & 4 ports	All side & bottom ports (see note)
Single solenoid	MM-P2A-221-A	MM-P2A-222-A	MM-P2A-223-A
Double solenoid	MM-P2A-221-B	MM-P2A-222-B	MM-P2A-223-B
Single solenoid	MM-P2A-231-A	MM-P2A-232-A	MM-P2A-233-A
Double solenoid	MM-P2A-231-B	MM-P2A-232-B	MM-P2A-233-B
	Single solenoid Double solenoid Single solenoid	Single solenoid MM-P2A-221-A Double solenoid MM-P2A-221-B Single solenoid MM-P2A-231-A	Single solenoid MM-P2A-221-A MM-P2A-222-A Double solenoid MM-P2A-221-B MM-P2A-222-B Single solenoid MM-P2A-231-A MM-P2A-232-A

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

OPTIONS

Manifold options : External pilot MM-P2A-**22**x-x for 3/8" port – common external pilot for 1/2" port – common external pilot Terminal strip MM-P2A-xxx-A (N/A with light) wired for sgl solenoid wired for double solenoid Base / Manifold option: light(s) MX-P2A-xxx-xJA JA 110/120 volt JB 220/240 volt DA 24 volt

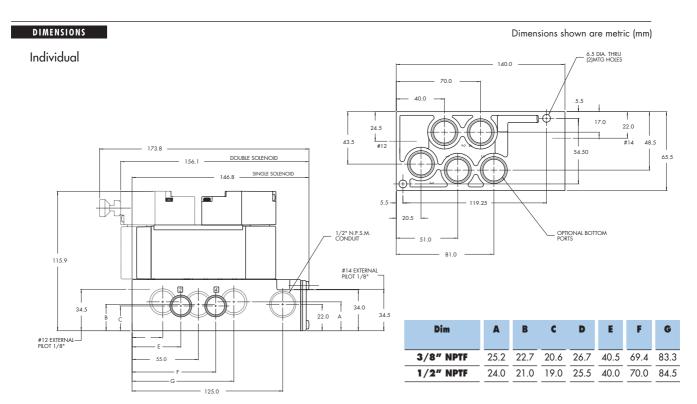
Accessories: M-P2001

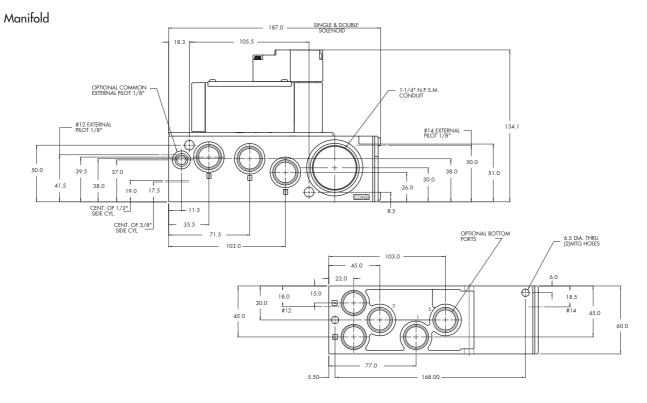
Valve blanking plate. N-P2004-01 Manifold fastening kit. 32839 Inlet/exhaust isolator plug.













Codification table for voltages / Manual operator / Electrical connection

VALVE CODE > -DM- D $\frac{XX}{1}$ $\frac{X-X}{2}$ $\frac{XX}{3}$

OPTIONS AVAILABLE FOR

- Pilot operated valves 52, 67, 92, 93, 400, ISO1, ISO2, ISO3 Series

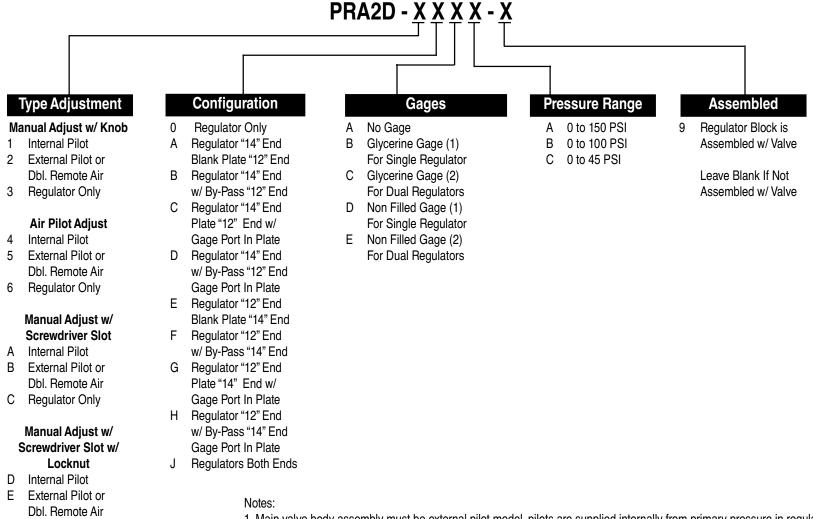


	1. VOLTAGE		4. ELECTRICAL CONNECTION
D-XX X-X XX	VOLTAGE	D-XX X-X XX	ELECTRICAL CONNECTION
DA	24 VDC (5.4W)	BA*	Flying leads (grommet)
DB	12 VDC (5.4W)	BK*	BA with protection diode
DC	12 VDC (7.5W)	BL*	BA with protection varistor
DD	24 VDC (7.3W)	BM**	Flying leads (solenoid plug-in)
DE	12 VDC (12.7W)	BN**	BM with protection diode
DF	24 VDC (12.7W)	BP**	BM with protection varistor
DK	110 VDC (4.7W)	BG**	BM with ground
DJ	28 VDC (5.2W)	BH**	BM with protection diode & ground
DL	64 VDC (6.0W)	BJ**	BM with protection varistor & ground
DM	36 VDC (5.3W)	CA*	1/2" NPS conduit with flying leads
DN	6 VDC (6.0W)	CM*	1/2" NPS metal conduit with flying leads
DR	90 VDC (6.6W)	CN*	1/2" NPS metal conduit with flying leads & ground
DS	110 VDC (7.3W)	JB	Rectangular connector
DT	75 VDC (5.6W)	JD	JB with light
DP	48 VDC (5.8W)	JM	Rectangular connector (male only)
FA	12 VDC (1.8W)	KA	Mini square connector
FB	24 VDC (1.8W)	КВ	KA with protection diode
FE	12 VDC (2.4W)	KC	KA with protection varistor
FF	24 VDC (2.4W)	KD	KA with light
JA	120/60, 110/50 (2.9W)	KE	KA with light and protection diode
JB	240/60, 220/50 (2.9W)	KF	KA with light and protection varistor
JC	24/60, 24/50 (3.7W)	KG	KA with light & diode
JD	100/60, 100/50, 110/60 (3.9W)	KJ	Mini square connector (male only)
JE	220/60 (3.4W)	KK	KJ with protection diode (male only)
JF	240/50 (2.8W)	KL	KJ with protection varistor (male only)
JG	200/60, 200/50 (3.9W)	TA	Dual tabs with receptacles
		ТВ	TA with protection diode
	2. WIRE LENGTH	TD	TA with light
		TE	TA with light and protection diode
D-XX X-X XX	WIRE LENGTH	TJ	Dual tabs (male only)
0	No wires	TK	TJ with protection diode
A	18"	TM	TJ with light
В	24"	TN	TJ with light and protection diode
С	36"	* From Lead wire len	gth options choose A through F
D	48"	** From Lead wire leng	gth options choose 0 through F
E	72"	Note: When coil is ab	ove 30 volts, a ground wire is required. Applies to opti
F	96"	with flying leads.	

3. MANUAL OPERATOR

D-XX X-X XX	MANUAL OPERATOR	
0	No operator	
1	Non-locking recessed	
2	Locking recessed	
3	Non-locking extended	
4	Locking extended	

How To Order ISO 2 Non Plug-In Regulator

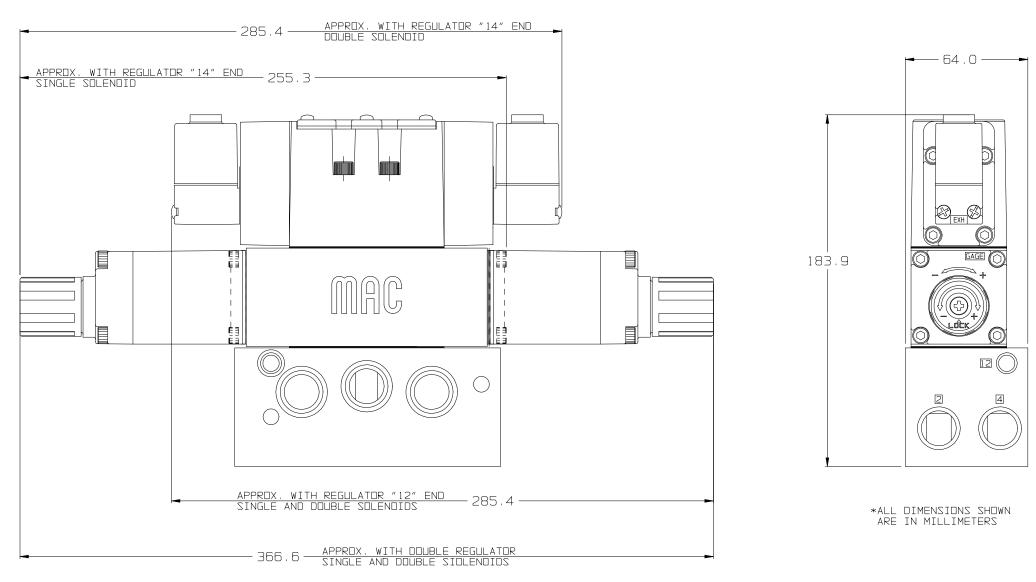


- 1. Main valve body assembly must be external pilot model, pilots are supplied internally from primary pressure in regulator block.
- 2. Dual pressure valve must be used with dual regulator or by-pass option.
- 3. Cannot field convert regulator block from single pressure to dual pressure.
- 4. Body/Block to base mounting screw #19177

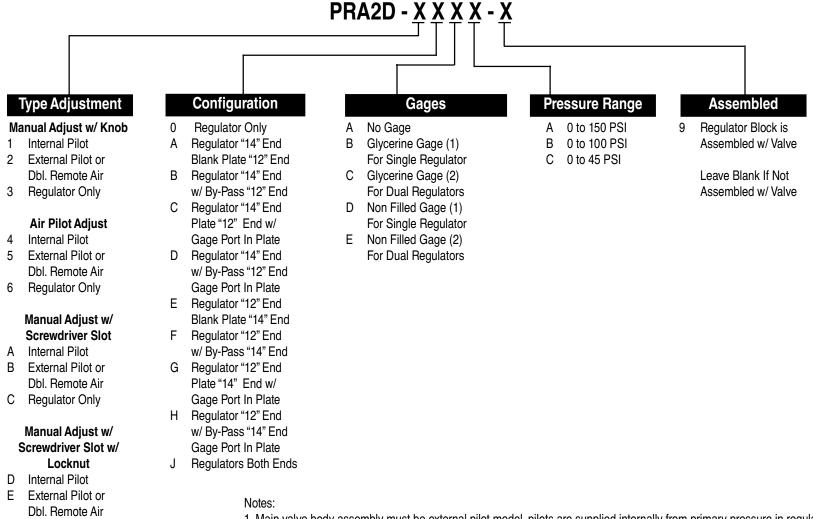
F Regulator Only

- 5. Cannot field convert from internal pilot to external pilot.
- 6. Interface plate between regulator and block must be used when regulator only is used for replacement.

ISO2 NON PLUG-IN MANIFOLD WITH REGULATOR (PRA2D-XXXX)



How To Order ISO 2 Non Plug-In Regulator



- 1. Main valve body assembly must be external pilot model, pilots are supplied internally from primary pressure in regulator block.
- 2. Dual pressure valve must be used with dual regulator or by-pass option.
- 3. Cannot field convert regulator block from single pressure to dual pressure.
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F Regulator Only

- 5. Cannot field convert from internal pilot to external pilot.
- 6. Interface plate between regulator and block must be used when regulator only is used for replacement.

ISO2 NON PLUG-IN MANIFOLD WITH REGULATOR (PRA2D-XXXX)

