



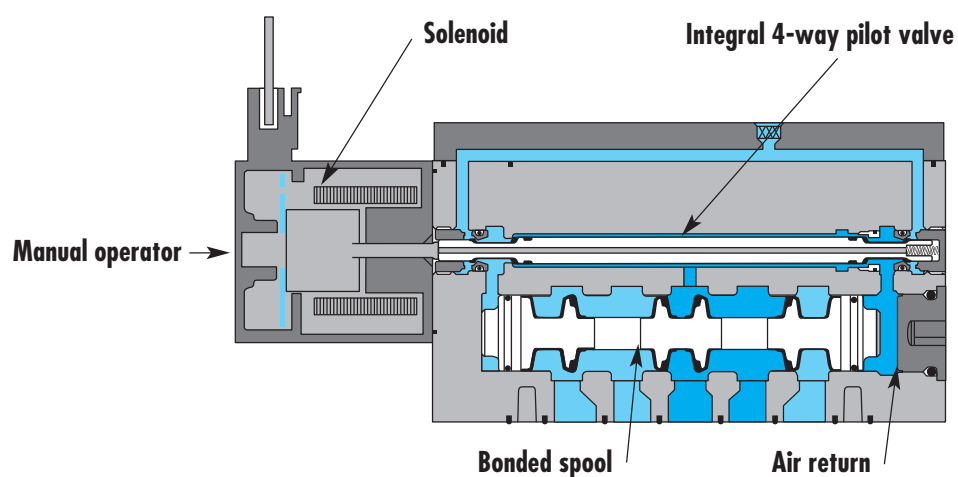
Direct solenoid and solenoid pilot operated valves

Individual mounting

Valve only – No base non "plug-in" Conform to ISO 15407/1	Valve only – No base plug-in Conform to ISO 15407/2
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Manifold mounting

Valve only – No base non "plug-in" Conform to ISO 15407/1	Valve only – No base plug-in Conform to ISO 15407/2
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SERIES FEATURES

- High force MACSOLENOID®.
- Integral 4-way pilot design.
- 2-position, single or double operator.
- 3-position, double solenoid, open centre, closed centre and pressure centre.
- Internal or external pilot.
- Single or dual pressure.



Direct solenoid and solenoid pilot operated valves

Function Port size Flow [Max] Individual/Manifold mounting

5/2, 5/3 **G1/4"** **1000 NI/min**

Valve only –
No base
non "plug-in"
Conform to
ISO 15407/1

OPERATIONAL BENEFITS

1. Unique patented MACsolenoid® with oval shaped armature for fastest possible response times.
2. Balanced poppet 5-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. Pilot valve and main valve in the same body.
6. Internal or external pilot operation.
7. Air only return
8. Optional low wattage DC solenoid down to 1.0 Watt.



HOW TO ORDER

SINGLE PRESSURE MODELS

Pilot air	5/2 Single operator	5/2 Double operator	5/3 Closed centre	5/3 Open centre
Internal	MV-A01A-AAMA-Jxxx-xxx	MV-A01A-ABMA-Jxxx-xxx	MV-A01A-AEMA-Jxxx-xxx	MV-A01A-AFMA-Jxxx-xxx
External "12" end	MV-A01A-AAMD-Jxxx-xxx	MV-A01A-ABMD-Jxxx-xxx	MV-A01A-AEMD-Jxxx-xxx	MV-A01A-AFMD-Jxxx-xxx
External "14" end	MV-A01A-AAME-Jxxx-xxx	MV-A01A-ABME-Jxxx-xxx	MV-A01A-AEME-Jxxx-xxx	MV-A01A-AFME-Jxxx-xxx

DUAL PRESSURE MODELS

Pilot air	5/2 Single operator	5/2 Double operator	5/3 Pressure centre
Internal from port #3	MV-A01A-ACMB-Jxxx-xxx	MV-A01A-ADMB-Jxxx-xxx	MV-A01A-AHMB-Jxxx-xxx
Internal from port #5	MV-A01A-ACMC-Jxxx-xxx	MV-A01A-ADMC-Jxxx-xxx	MV-A01A-AHMC-Jxxx-xxx
External from "12" end	MV-A01A-ACMD-Jxxx-xxx	MV-A01A-ADMD-Jxxx-xxx	MV-A01A-AHMD-Jxxx-xxx
External from "14" end	MV-A01A-ACME-Jxxx-xxx	MV-A01A-ADME-Jxxx-xxx	MV-A01A-AHME-Jxxx-xxx

SOLENOID OPERATOR ➤

XX Voltage	X Lead wire length	X Manual operator	XX Electrical connection
DA 24V=/5,4W	0 No lead wire/ connector	1 Non-locking	BA Flying leads
DB 12V=/5,4W	A 45 cm	2 Locking	JA Square connector
DC 24V=/2,4W	B 60 cm		JC Square connector with light
DD 12V=/2,4W	C 90 cm		JB Rectangular connector
DE 24V=/1,8W			JD Rectangular connector with light
DU 24V=/1,0W			KA Mini square connector
			KD Mini square connector with light

* Other options available, see page options.

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

- If sandwich regulator is required, valve must be ordered as external pilot. For internal pilot regulator use valve with external pilot 12 end valve - for external pilot regulator, use valve with external pilot 12 or 14 end.

OPTIONS

Pilot exhaust: MV-A01A-XX X X-Jxxx-xxx

- M Pilot exhaust muffled
- R Pilot exhaust piped M5
- U Pilot exhaust out main exhaust

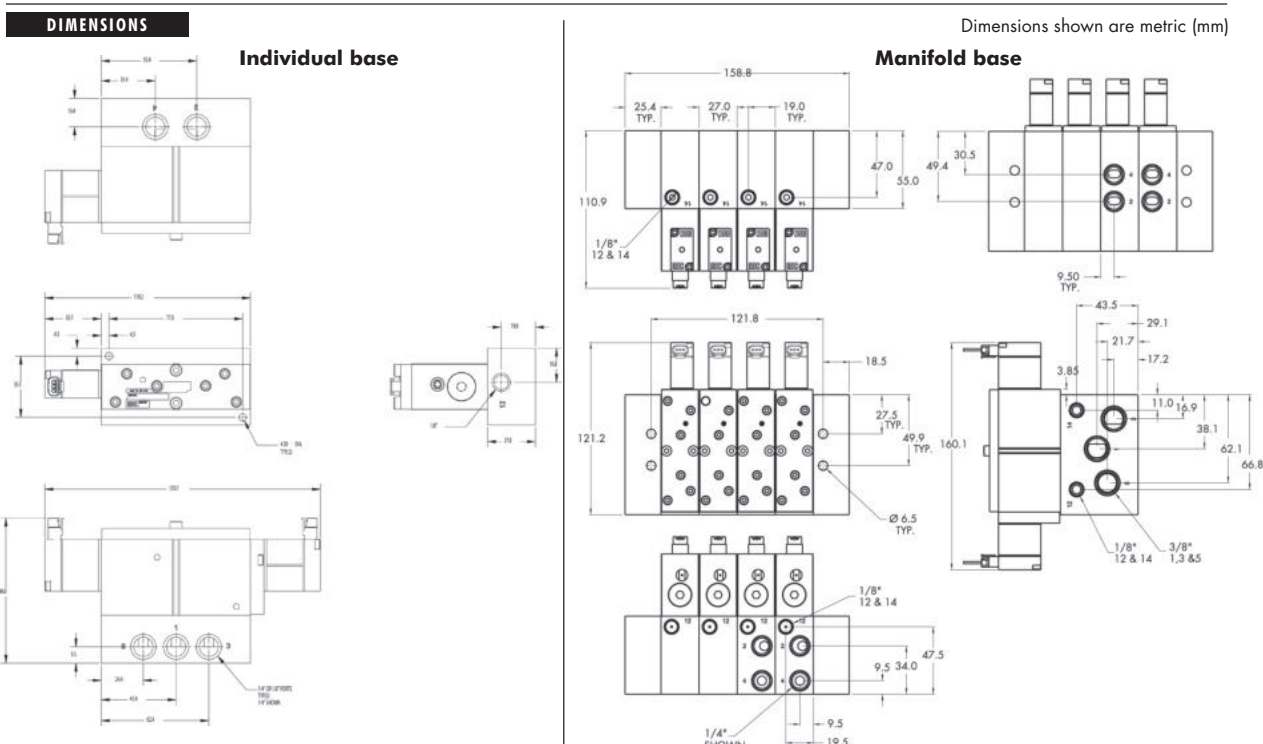


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WARRANTY
18
MONTHS

TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot – 2 pos.: 1,4 to 8 bar 3 pos.: 2,3 to 8 bar External pilot – Vacuum to 8 bar
Pilot pressure :	2 pos.: 1,4 to 8 bar – 3 pos.: 2,3 to 8 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 :	6 mm
Flow (at 6 bar, ΔP=1bar) :	2 pos.: 1000 NL/min (Cv 1.0) – 3 pos.: 800 NL/min (Cv 0.8)
Coil :	Epoxy encapsulated – Class F wires - 100% ED
Voltage range :	-15% to +10% of nominal voltage
Power :	1,0 to 5,4 W

- Options :
- Sandwich flow controls: FCA01A-AA (screwdriver slot adjustment).
 - Sandwich pressure regulator, see ,Regulators' section





Direct solenoid and solenoid pilot operated valves

Function Port size Flow [Max] Individual/Manifold mounting

5/2, 5/3 G1/4" 1000 NI/min

Valve only
No base
Plug-in
Conform to
ISO 15407/2

OPERATIONAL BENEFITS

1. Unique patented MACsolenoid® with oval shaped armature for fastest possible response times.
2. Balanced poppet 5-way pilot 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. Pilot valve and main valve in the same body.
6. Internal or external pilot operation.
7. Air only return
8. Valve width: 26 mm.



HOW TO ORDER

SINGLE PRESSURE MODELS

Pilot air	5/2 Single operator	5/2 Double operator	5/3 Closed centre	5/3 Open centre
Internal	MV-P01A-AACA-RxxP-xxx	MV-P01A-ABCA-RxxP-xxx	MV-P01A-AECA-RxxP-xxx	MV-P01A-AFCA-RxxP-xxx
External "12" end	MV-P01A-AACD-RxxP-xxx	MV-P01A-ABCD-RxxP-xxx	MV-P01A-AECD-RxxP-xxx	MV-P01A-AFCD-RxxP-xxx
External "14" end	MV-P01A-AACE-RxxP-xxx	MV-P01A-ABCE-RxxP-xxx	MV-P01A-AECE-RxxP-xxx	MV-P01A-AFCE-RxxP-xxx

DUAL PRESSURE MODELS

Pilot air	5/2 Single operator	5/2 Double operator	5/3 Pressure centre
Internal from port #3	MV-P01A-ACCB-RxxP-xxx	MV-P01A-ADCB-RxxP-xxx	MV-P01A-AHCB-RxxP-xxx
Internal from port #5	MV-P01A-ACCC-RxxP-xxx	MV-P01A-ADCC-RxxP-xxx	MV-P01A-AHCC-RxxP-xxx
External from "12" end	MV-P01A-ACCD-RxxP-xxx	MV-P01A-ADCD-RxxP-xxx	MV-P01A-AHCD-RxxP-xxx
External from "14" end	MV-P01A-ACCE-RxxP-xxx	MV-P01A-ADCE-RxxP-xxx	MV-P01A-AHCE-RxxP-xxx

SOLENOID OPERATOR ➤

R **xxP-xxx** **

XX Voltage	X Manual operator	XX Electrical connection
AA* 120 VAC	0 Non operator	PA Base plug-in
AC* 24 VAC	1 Recessed non locking	PB Base plug-in with light
DC 24V=/1.8W	3 Extended non locking	PC Base plug-in with MOV
DD 24V=/2.5W		PD Base plug-in with light & MOV
DE 24V=/3.0W		
DF 24V=/4.0W		
DJ 12V=/1.8W		
DK 12V=/2.5W		
DL 12V=/3.0W		
DM 12V=/4.0W		

* Use either PA or PB connector

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

Other options available, see page options.

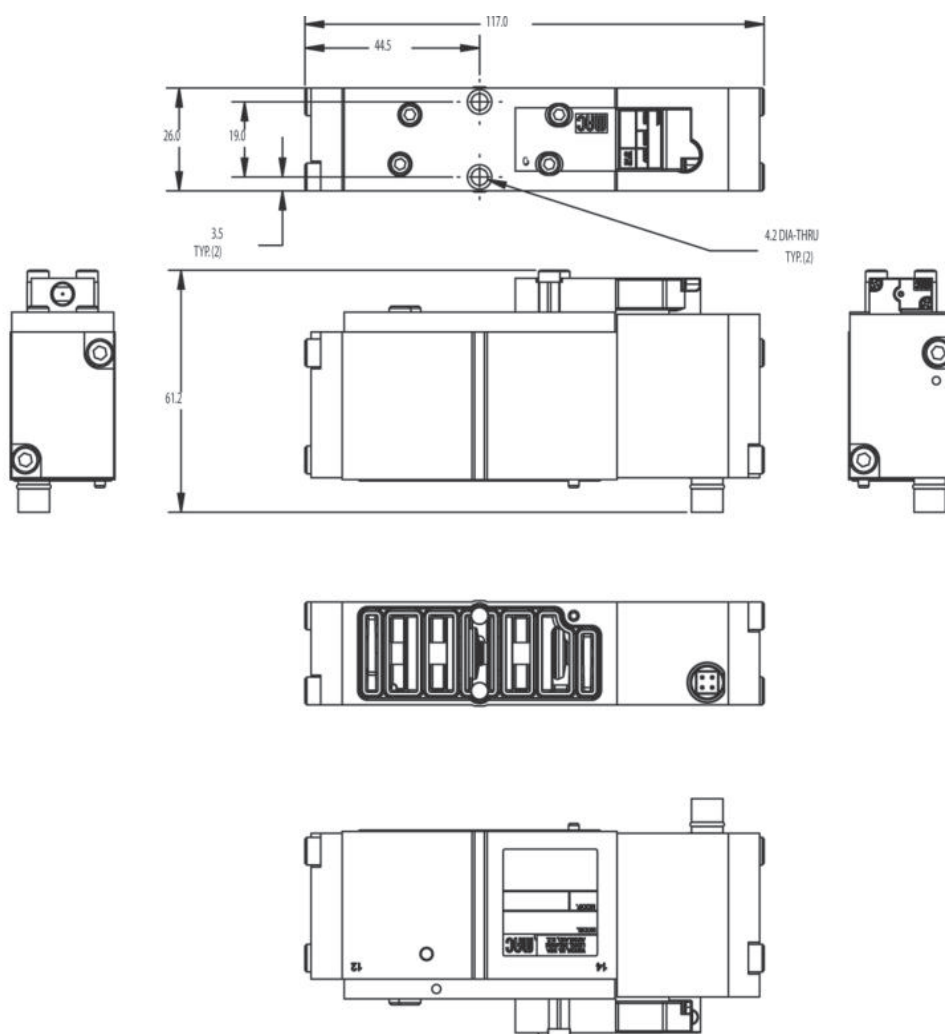
OPTIONS

Pilot exhaust: MV-P01A-XXxMVx-RxxP-xxx

- C Pilot exhaust muffled
- R Pilot exhaust piped M5
- U Pilot exhaust out main exhaust

TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot – 2 pos.: 1,3 to 8 bar 3 pos.: 2,3 to 8 bar External pilot: vacuum to 8 bar
Pilot pressure :	2 pos.: 1,3 to 8 bar – 3 pos.: 2,3 to 8 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, $\Delta P=1\text{ bar}$) :	2 pos.: 1000 Nl/min (Cv 1.0) – 3 pos.: 800 Nl/min (Cv.8)
Coil :	Epoxy encapsulated - Class A wires - 100% ED
Voltage range :	-15% to +10%
Power :	1,8 to 5,4 W

DIMENSIONS Dimensions shown are metric (mm)





Bases according to ISO 15407 / 1

Non plug-in individual / manifold base



HOW TO ORDER

INDIVIDUAL BASE

Port size	Pilot air	Side ports	Bottom 2 & 4 ports With all side ports
G1/4"	Internal	MB-A01A-221	MB-A01A-222

MANIFOLD BASE

Port size	Pilot air	Side ports	Bottom 2 & 4 ports With side 1, 3 & 5 ports
G1/4"	Internal	MM-A01A-221	MM-A01A-222

Notes:

- For manifold bases external pilot is common
- A base is ordered as internal pilot and can be changed into external pilot by removing pipe plugs from the external pilot ports (individual base).
- Manifold base: same base for internal and external pilot, different end plate kits.

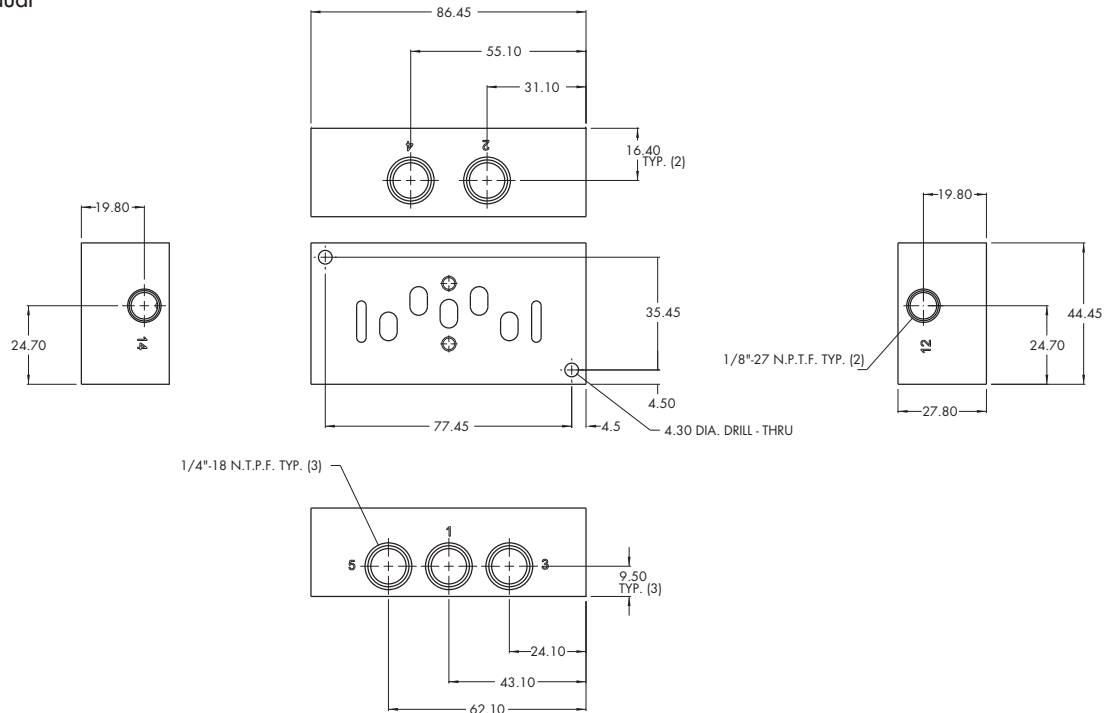
End plate kit: Internal pilot M-00017-01-01P
External pilot M-00017-02-01P

Inlet/exhaust isolator: 28413

DIMENSIONS

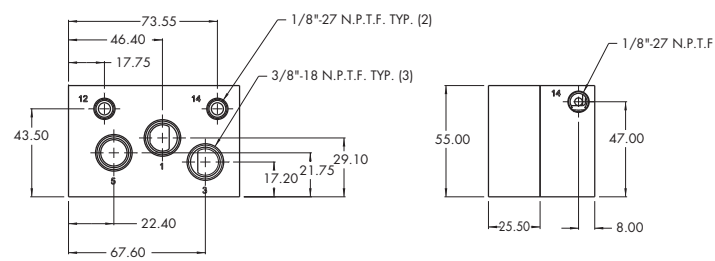
Dimensions shown are metric (mm)

Individual

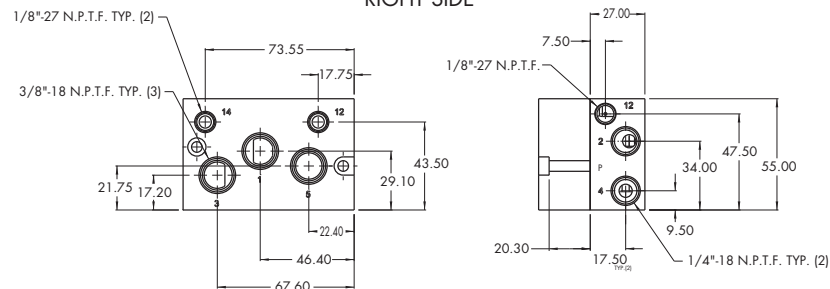


Manifold

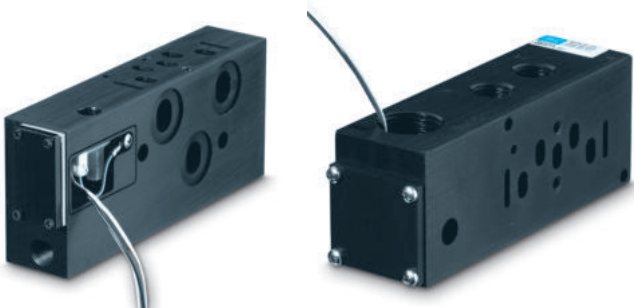
LEFT SIDE



RIGHT SIDE



Plug-in individual / manifold base



HOW TO ORDER

INDIVIDUAL BASE

Port size	Pilot air	Side ports with all side ports	Bottom 2 & 4 ports
G1/4"	Internal	MB-P01A-221	MB-P01A-222

MANIFOLD BASE

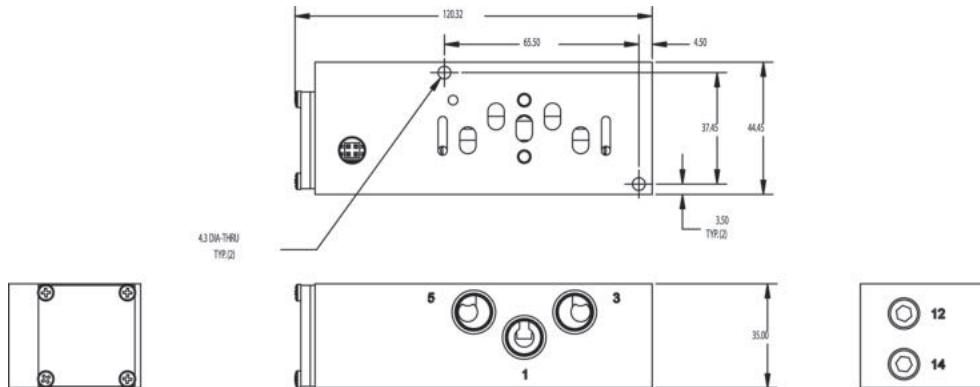
Port size	Pilot air	Side ports With side 1, 3 & 5 ports	Bottom 2 & 4 ports
G1/4"	Internal	MM-P01A-221	MM-P01A-222

- Notes:
- For manifold bases external pilot is common
 - End plate kit: Internal pilot M-00020-01-01P
 External pilot M-00020-02-01P

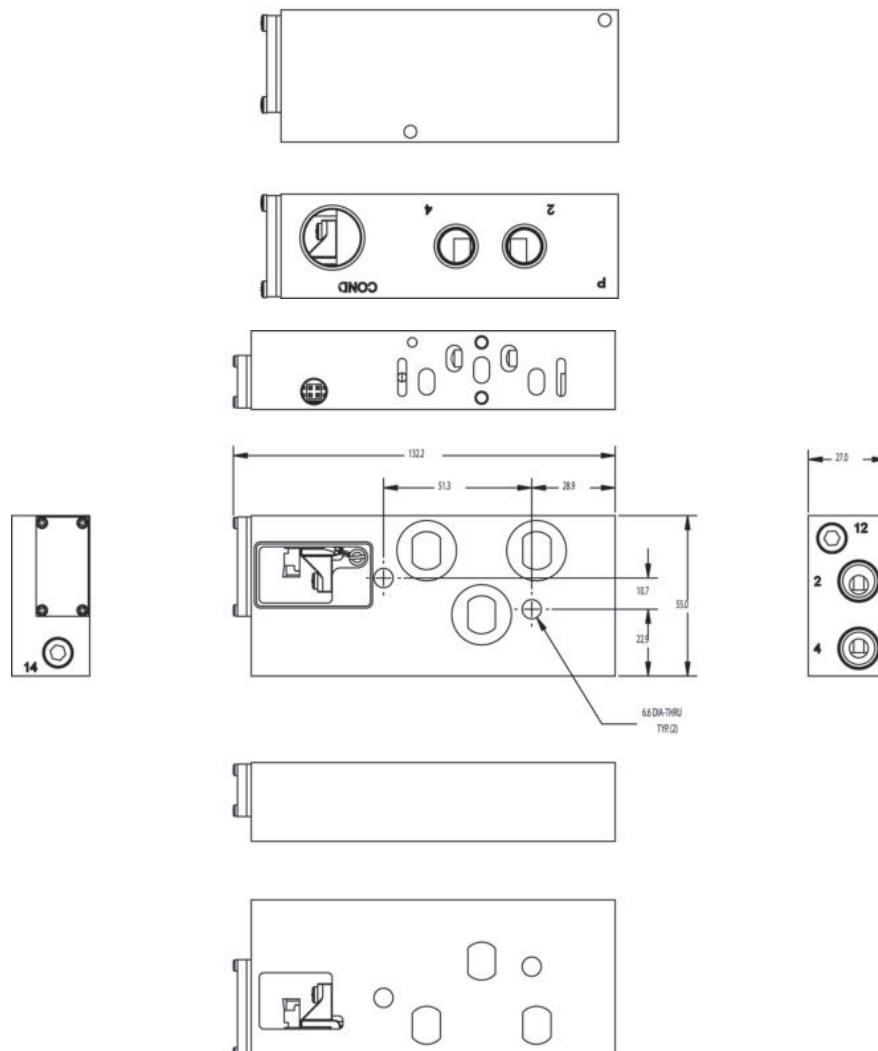
DIMENSIONS

Dimensions shown are metric (mm)

Individual



Manifold



Non plug-in sandwich pressure regulator with manual adjust

OPERATIONAL BENEFITS

1. Easy mounting: saves on installation costs and space 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

Pilot	Single pressure Regulator 12 end	Dual pressure Regulator 12 end with by-pass 14 end	Dual pressure Regulator 14 end with by-pass 12 end	Dual pressure Regulator both ends
Internal	PRA01A-AAAA	PRA01A-ABAA	PRA01A-ADAA	PRA01A-AEAA
External	PRA01A-BAAA	PRA01A-BBAA	PRA01A-BDAA	PRA01A-BEAA

Above models are for manual adjust with knob
For other manual adjustments and pressure ranges, see Options.

Note: Add -9 after part number for regulator block assembled to valve.
* To be used with dual pressure valves.

OPTIONS

Adjustments :

PRA01A - **XXXX**

- A** Manual adjust with knob – Internal pilot
- B** Manual adjust with knob – External pilot
- G** Manual adjust with screwdriver slot – Internal pilot
- H** Manual adjust with screwdriver slot – External pilot
- K** Manual adjust with screwdriver slot with locknut– Internal pilot
- L** Manual adjust with screwdriver slot with locknut – External pilot

Regulated Pressure range :

PRA01A - **XXXX**

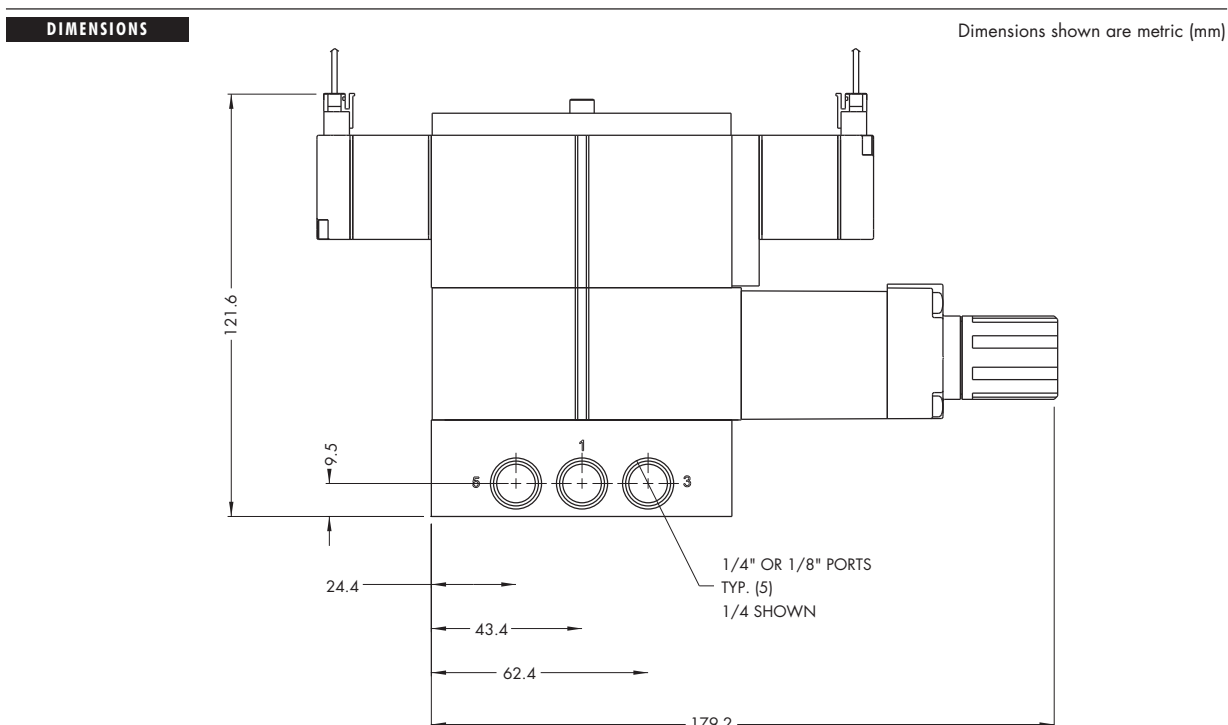
- A** 0 to 8 bar
- B** 0 to 5,3 bar
- C** 0 to 2 bar
- D** 0 to 8 bar "14" end – 0 to 5,3 bar "12" end
- E** 0 to 8 bar "12" end – 0 to 5,3 bar "14" end
- F** 0 to 8 bar "14" end – 0 to 2 bar "12" end
- G** 0 to 8 bar "12" end – 0 to 2 bar "14" end
- H** 0 to 5,3 bar "14" end– 0 to 2 bar "12" end
- J** 0 to 5,3 bar "12" end – 0 to 2 bar "14" end



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WARRANTY
18
MONTHS

TECHNICAL DATA	
Fluid :	Compressed air, inert gases
Pressure supply :	Higher than maximum regulated pressure (max. 8,5 bar)
Regulating range :	0 to 8 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





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. Compact all-included units
3. Large orifice provides high flow
4. Various functions available
5. Simple, reliable and solid design

HOW TO ORDER

Pilot	Single pressure Regulator 12 end	Dual pressure Regulator 12 end with by-pass 14 end	Dual pressure Regulator 14 end with by-pass 12 end	Dual pressure Regulator both ends
Internal	PRA01A-DAAA	PRA01A-DBAA	PRA01A-DDAA	PRA01A-DEAA
External	PRA01A-EAAA	PRA01A-EBAA	PRA01A-EDAA	PRA01A-EEAA

Note : Only pressure range available for air adjust regulator is 0-8 bar.

* To be used with dual pressure valves.





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

OPERATIONAL BENEFITS

1. Easy mounting: saves on installation costs and space 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

Pilot	Single pressure Regulator 12 end	Dual pressure Regulator 12 end with by-pass 14 end	Dual pressure Regulator 14 end with by-pass 12 end	Dual pressure Regulator both ends
Internal	PRP01A-AAAA	PRP01A-ABAA	PRP01A-ADAA	PRP01A-AEAA
External	PRP01A-BAAA	PRP01A-BBAA	PRP01A-BDAA	PRP01A-BEAA

Above models are for manual adjust with knob
For other adjustments and pressure ranges, see Options.

* To be used with dual pressure valves.

OPTIONS

Adjustments :

PRP01A - xxxx

- A** Manual adjust with knob – Internal pilot
- B** Manual adjust with knob – External pilot
- G** Manual adjust with screwdriver slot – Internal pilot
- H** Manual adjust with screwdriver slot – External pilot
- K** Manual adjust with screwdriver slot with locknut – Internal pilot
- L** Manual adjust with screwdriver slot with locknut – External pilot

Regulated Pressure range :

PRP01A - xxxxx

- A** 0 to 8 bar
- B** 0 to 5,3 bar
- C** 0 to 2 bar
- D** 0 to 8 bar "14" end – 0 to 5,3 bar "12" end
- E** 0 to 8 bar "12" end – 0 to 5,3 bar "14" end
- F** 0 to 8 bar "14" end – 0 to 2 bar "12" end
- G** 0 to 8 bar "12" end – 0 to 2 bar "14" end
- H** 0 to 5,3 bar "14" end – 0 to 2 bar "12" end
- J** 0 to 5,3 bar "12" end – 0 to 2 bar "14" end



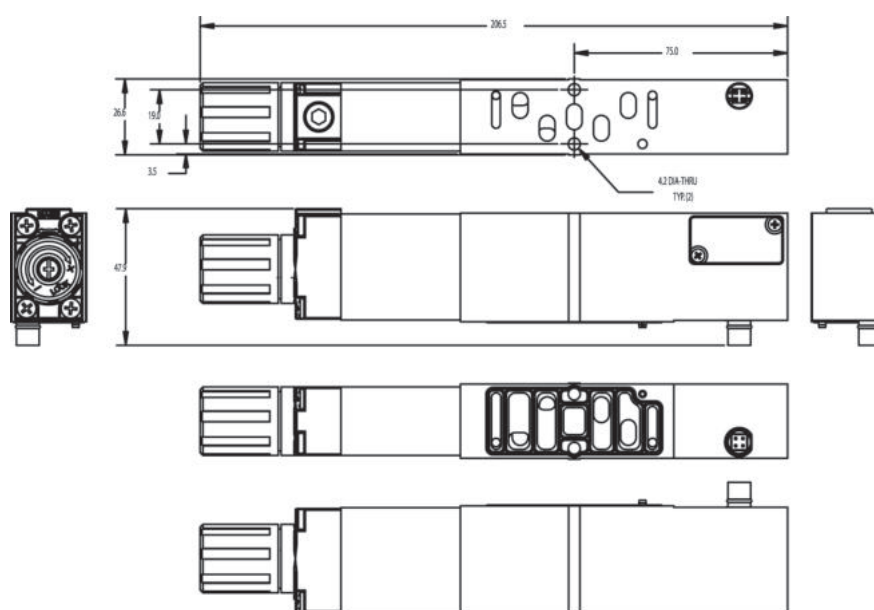
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WARRANTY
18
MONTHS

TECHNICAL DATA	
Fluid :	Compressed air, inert gases
Pressure supply :	Higher than maximum regulated pressure (max. 8,5 bar)
Regulating range :	0 to 8 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

DIMENSIONS

Dimensions shown are metric (mm)





Plug-in sandwich pressure regulator with air pilot adjust

OPERATIONAL BENEFITS

1. Easy mounting: saves on installation costs and space 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

Pilot	Single pressure Regulator 12 end	Dual pressure Regulator 12 end with by-pass 14 end *	Dual pressure Regulator 14 end with by-pass 12 end *	Dual pressure Regulator both ends *
Internal	PRP01A-DAAA	PRP01A-DBAA	PRP01A-DDAA	PRP01A-DEAA
External	PRP01A-EAAA	PRP01A-EBAA	PRP01A-EDAA	PRP01A-EEAA

Note: Only pressure range available for air adjust is 0-8 bar

* To be used with dual pressure valves.



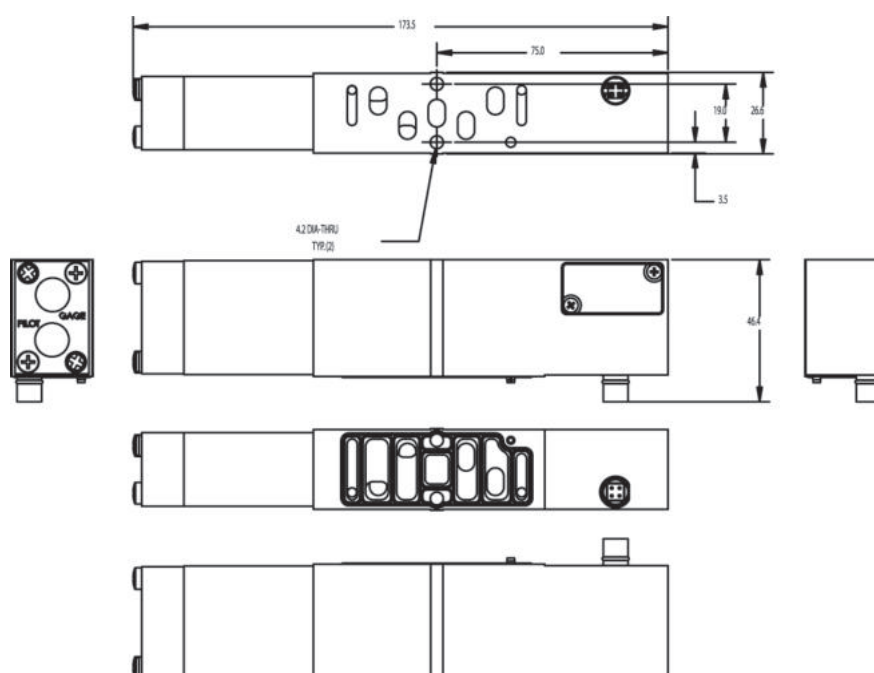
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WARRANTY
18
MONTHS

TECHNICAL DATA	
Fluid :	Compressed air, inert gases
Pressure supply :	Higher than maximum regulated pressure (max. 8,5 bar)
Regulating range :	0 to 8 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

DIMENSIONS

Dimensions shown are metric (mm)



Codification table for voltages / Manual operators / Electrical connections

VALVE CODE ►

(Non Plug-in series)

J XX X-X XX
1 2 3 4

1. VOLTAGE		J-XX X-X XX	ELECTRICAL CONNECTION
J-XX X-X XX	VOLTAGE	*JJ	Square connector Male only (Plain)
AA	120V~/5,4W	*JK	Square connector with rectifier
AC	24V~/5,4W	*JL	Square connector with rectifier with light
DE	24V~/1,8W	*JM	Rectangular connector Male only (Plain)
DF	12V~/1,8W	*JN	Rectangular connector with diode
DJ	24V~/1,3W	*JP	Rectangular connector with MOV
DL	12V~/1,3W	*JR	Rectangular connector with diode/light
DN	12V~/0,5W*	*JS	Rectangular connector with MOV/light
DR	12V~/1,0W*	*JT	Rectangular connector with rectifier
DS	24V~/0,5W*	*JU	Rectangular connector with rectifier with light
DU	24V~/1,0W*	* Not available on manifold or stacking valves	
* Not available on 36 series universal valves			
2. WIRE LENGHT		J-XX X-X XX	MINI SQUARE PLUG-IN CONNECTORS 9,4 MM SPACING BETWEEN PINS
J-XX X-X XX	WIRE LENGHT	KA	Mini plug-in
A	45 cm - 18" coil leads	KB	Mini plug-in with diode
B	60 cm - 24" coil leads	KC	Mini plug-in with MOV
C	90 cm - 36" coil leads	KD	Mini plug-in with light
D	120 cm - 48" coil leads	KE	Mini plug-in with diode and light
E	180 cm - 72" coil leads	KF	Mini plug-in with MOV and light
F	240 cm - 96" coil leads	KG	Mini plug-in with rectifier
P	Base plug-in	KH	Mini plug-in with rectifier and light
O	No leads (use with J, K & L type connectors)	KJ	Mini plug-in - Male only
		KK	Mini plug-in with diode - Male only
		KL	Mini plug-in with MOV - Male only
		KM	Mini plug-in with light - Male only
		KN	Mini plug-in with diode and light - Male only
		KP	Mini plug-in with MOV and light - Male only
		KR	Mini plug-in with rectifier - Male only
		KS	Mini plug-in with rectifier and light - Male only
		* Not available on manifold or stacking valves	
3. MANUAL OPERATOR		J-XX X-X XX	CONNECTORS FOR NON PLUG-IN VALVES MINI SQUARE PLUG-IN CONNECTORS 8.0 MM SPACING BETWEEN PINS ISO SPECIFICATION 15217
J-XX X-X XX	MANUAL OPERATOR	LA	Mini plug-in
0	No operator	LB	Mini plug-in with diode
1	Non-locking recessed	LC	Mini plug-in with MOV
2	Locking recessed	LD	Mini plug-in with light
3	Non-locking extended	LE	Mini plug-in with diode and light
4	Locking extended	LF	Mini plug-in with MOV and light
		LG	Mini plug-in with rectifier
		LH	Mini plug-in with rectifier and light
		LJ	Mini plug-in - Male only
		LK	Mini plug-in with diode - Male only
		LL	Mini plug-in with MOV - Male only
		LM	Mini plug-in with light - Male only
		LN	Mini plug-in with diode and light - Male only
		LP	Mini plug-in with MOV and light - Male only
		LR	Mini plug-in with rectifier - Male only
		LS	Mini plug-in with rectifier and light - Male only
4. ELECTRICAL CONNECTION		J-XX X-X XX	CONNECTORS FOR PLUG-IN VALVES
J-XX X-X XX	ELECTRICAL CONNECTION	FA	Base plug-in
BA	Flying leads	FB	Base plug-in with diode
GA	MAC JAC solenoid plug-in	FC	Base plug-in with MOV
GB	MAC JAC solenoid plug-in with diode	FD	Base plug-in with light
GC	MAC JAC solenoid plug-in with MOV	FE	Base plug-in with diode and light
GD	MAC JAC solenoid plug-in with light	FF	Base plug-in with MOV and light
GE	MAC JAC solenoid plug-in with diode and light	FG	Base plug-in with rectifier
GF	MAC JAC solenoid plug-in with MOV and light	FH	Base plug-in with rectifier and light
GG	MAC JAC solenoid plug-in with rectifier		
GH	MAC JAC solenoid plug-in with rectifier and light		
GJ	MAC JAC solenoid plug-in - Male only		
GK	MAC JAC solenoid plug-in with diode - Male only		
GL	MAC JAC solenoid plug-in with MOV - Male only		
GM	MAC JAC solenoid plug-in with light - Male only		
GN	MAC JAC solenoid plug-in with diode and light - Male only		
GP	MAC JAC solenoid plug-in with MOV and light - Male only		
GR	MAC JAC solenoid plug-in with rectifier - Male only		
GS	MAC JAC solenoid plug-in with rectifier and light - Male only		
*JA	Square connector		
*JB	Rectangular connector		
*JC	Square connector with light		
*JD	Rectangular connector with light		
*JE	Square connector with diode		
*JF	Square connector with MOV		
*JG	Square connector with diode/light		
*JH	Square connector with MOV/light		



o p t i o n s

Codification table for voltages / Manual operators / Electrical connections

VALVE CODE ►

(Plug-in series)

R XX X - X XX
1 2 3 4

1. VOLTAGE		3. MANUAL OPERATOR	
R XX X - XXX	VOLTAGE	R XX X - XXX	MANUAL OPERATOR
DB	24 VDC (1.0W)	0	No operator
DC	24 VDC (1.8W)	1	Non-locking recessed
DD	24 VDC (2.5W)	3	Non-locking extended
DE	24 VDC (3.0W)		
DF	24 VDC (4.0W)		
DH	12 VDC (1.0W)		
DJ	12 VDC (1.8W)		
DK	12 VDC (2.5W)		
DL	12 VDC (3.0W)		
DM	12 VDC (4.0W)		
EA*	24 VDC (60W)		
EB*	24 VDC (90W)		
EC*	24 VDC (230W)		
* MOD numbers required for these voltages (consult factory)			
2. WIRE LENGHT		4. ELECTRICAL CONNECTION	
R XX X - XXX	WIRE LENGHT	ELECTRICAL CONNECTION FOR NON PLUG-IN VALVES	
0*	No lead wire	R XX X - XXX	
A	45 cm - 18"	BA	Flying leads
B	60 cm - 24"	BB	Flying leads with LED
C	90 cm - 36"	BC	Flying leads with MOV
D	120 cm - 48"	BD	Flying leads with LED and MOV
E	180 cm - 72"	DA	Base plug-in
F	240 cm - 96"	DB	Base plug-in with LED
G	300 cm - 120"	DC	Base plug-in with MOV
H	365 cm - 144"	DD	Base plug-in with LED and MOV
P	Base plug-in	RA	Mini JAC solenoid
* Not available for flying leads connector		RB	Mini JAC solenoid with LED
		RC	Mini JAC solenoid with MOV
		RD	Mini JAC solenoid with LED and MOV
		TA	JST solenoid plug-in
		TB	JST solenoid plug-in with LED
		TC	JST solenoid plug-in with MOV
		TD	JST solenoid plug-in with LED and MOV
		ELECTRICAL CONNECTION FOR PLUG-IN VALVES	
		R XX X - XXX	
		PA	Base plug-in
		PB	Base plug-in with light
		PC	Base plug-in with MOV
		PD	Base plug-in with light and MOV