

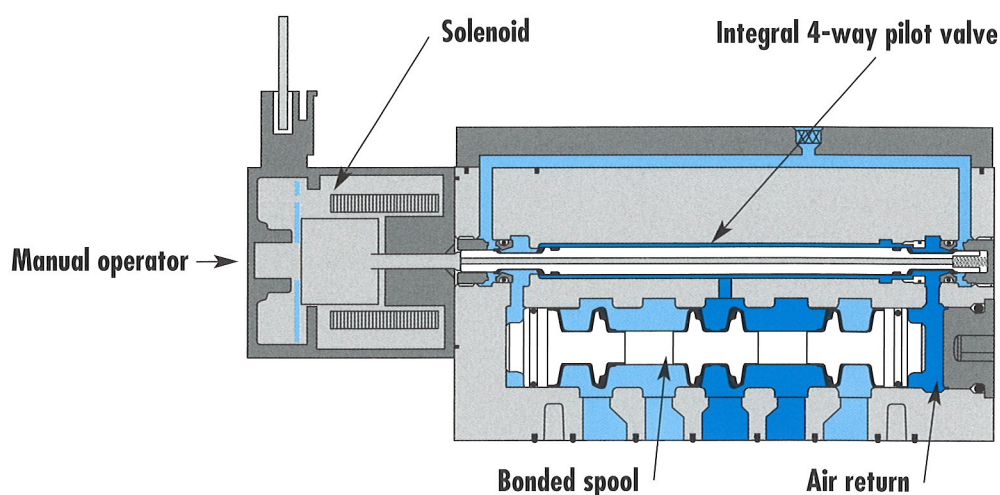
Individual mounting

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

Series

Manifold mounting

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



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.

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48P

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ISO 01

ISO 02

ISO 1

ISO 2

ISO 3

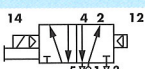
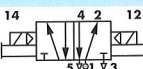
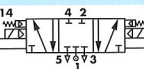
Function	Port size	Flow [Max]	Individual/Manifold mounting	Series
5/2, 5/3	G1/4"	1000 NI/min	Valve only - No base non "plug-in" Conform to ISO 15407/1	

OPERATIONAL BENEFITS

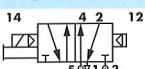
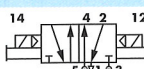
1. Unique patented MACsolenoid® with oval shaped armature for fastest possible response times.
2. Balanced poppet 5-way pilot valve provides maximum shifting forces, precise repeatability and consistent operation.
3. MAC spool and bore combination wipes away contamination, eliminates sticking and allows 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.
9. 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-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 ➤

J XXX-XXX*			
XX Voltage	X Lead wire length	X Manual operator	XX Electrical connection
DA 24V=5,4W	O 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 307.

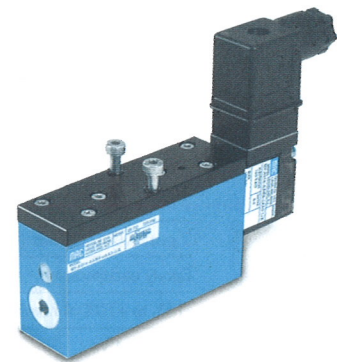
Note: - ISO series, valve and base are ordered separately, see page 225 for base codes.

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

OPTIONS

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

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



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TECHNICAL DATA

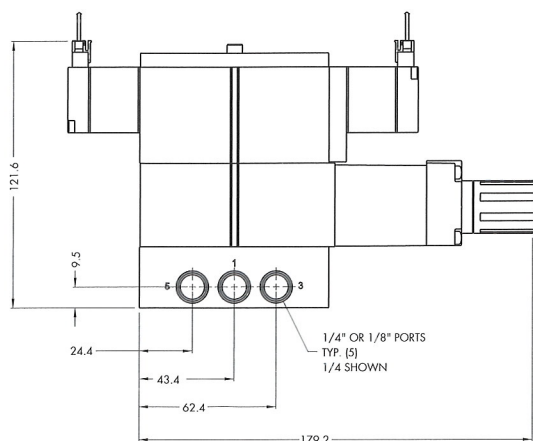
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot – 2 pos.: 1,4 to 8 bar 3 pos.: 2,3 to 8 bar External pilot – Vacuum to 8 bar
Pilot pressure :	2 pos.: 1,4 to 8 bar – 3 pos.: 2,3 to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	6 mm
Flow (at 6 bar, $\Delta P=1\text{bar}$) :	2 pos.: 1000 Nl/min (Cv 1.0) – 3 pos.: 800 Nl/min (Cv 0.8)
Coil :	Epoxy encapsulated – Class F wires
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

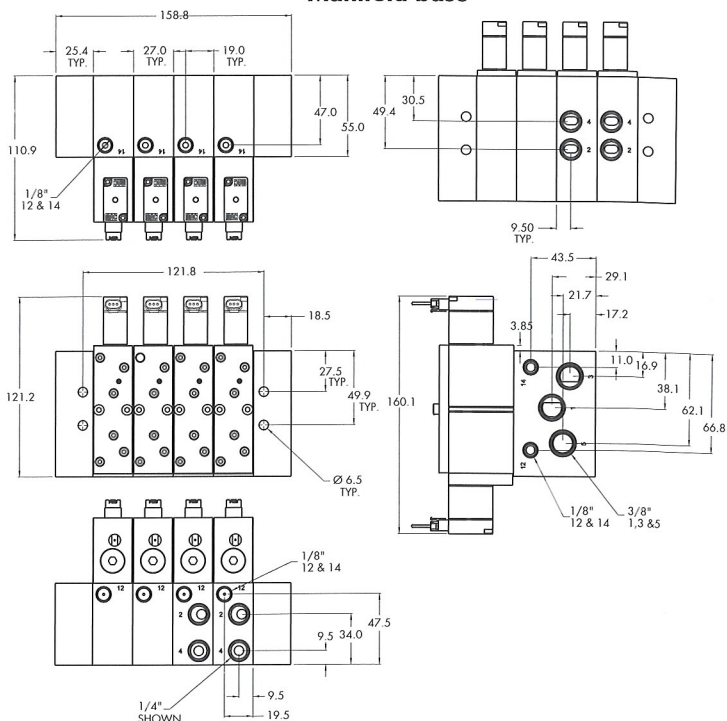
DIMENSIONS

Individual base



Dimensions shown are metric (mm)

Manifold base



Non plug-in individual / manifold base



ISO 01

ISO 02

ISO 1

ISO 2

ISO 3

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.

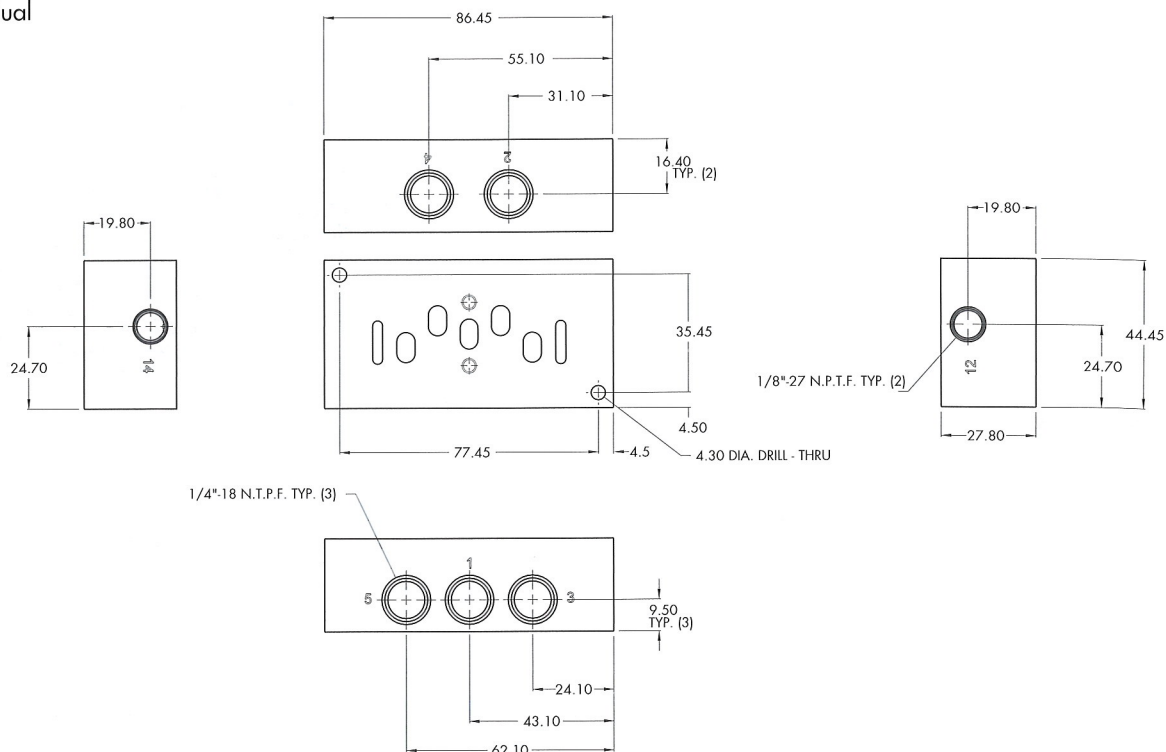
End plate kit: Internal pilot M-00017-01-01P
External pilot M-00017-02-01P

Inlet/exhaust isolator: 28413

DIMENSIONS

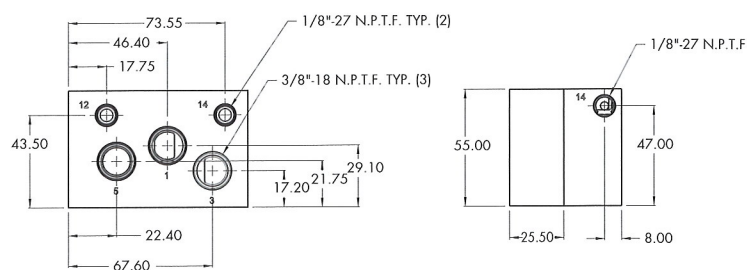
Dimensions shown are metric (mm)

Individual



Manifold

LEFT SIDE



RIGHT SIDE

