

Direct solenoid and solenoid pilot operated valves
 8 mm valve

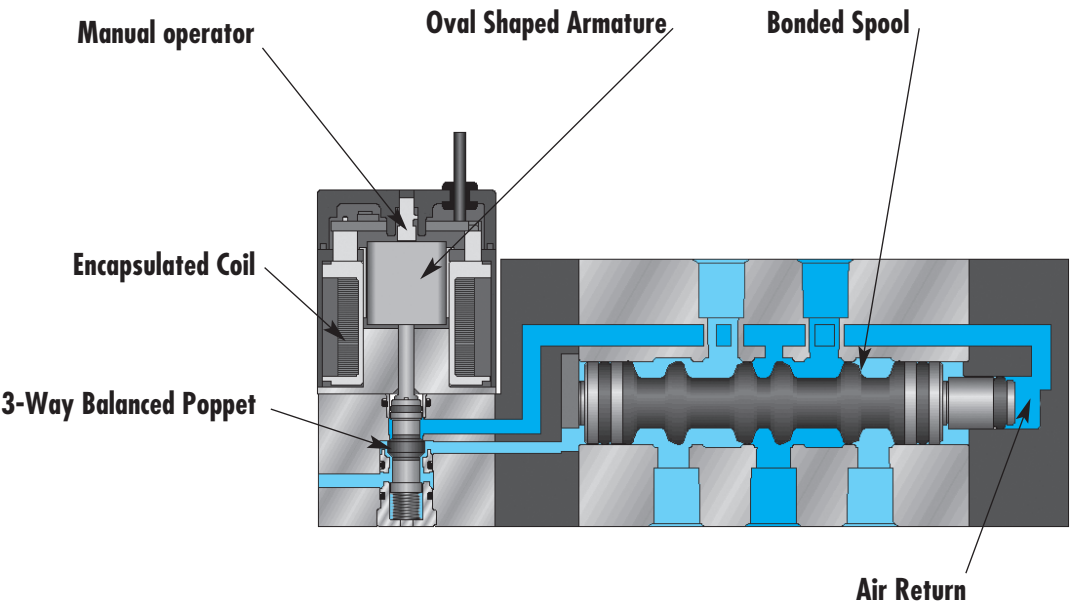
Individual mounting

Série

Inline	Sub-base Non plug-in
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Manifold mounting

Manifold-base Non plug-in



SERIES FEATURES

- Patented high force MACSOLENOID® for fastest possible response times.
- Bonded balanced poppet for high flow, precise repeatability, and consistent operation.
- Extremely high cycle rate capability.
- Use on lube or non-lube service.
- 8 mm solenoid pilot operated valve.
- Very fast and repeatable response times.

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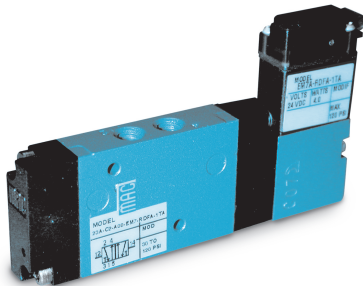


Direct solenoid and solenoid pilot operated valves
8 mm valve

Function	Port size	Flow [Max]	Individual mounting	Series
5/2	M3,M5	230 NI/min	Inline	

OPERATIONAL BENEFITS

- 1. 8 mm valve – solenoid pilot operated.
- 2. Balanced spool, immune to variations of pressure.
- 3. Bonded spool with minimum friction.
- 4. Wiping effect, eliminates sticking.
- 5. Pilot valve with balanced poppet, high flow, short and consistent response times



HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot air	Single solenoid	Double solenoid
M3	Internal	23A-A1-C00-E xx -R xxx - xxx	23A-B1-C00-E xx -R xxx - xxx
	External	23A-A4-C00-E xx -R xxx - xxx	23A-B4-C00-E xx -R xxx - xxx
M5	Internal	23A-A1-B00-E xx -R xxx - xxx	23A-B1-B00-E xx -R xxx - xxx
	External	23A-A4-B00-E xx -R xxx - xxx	23A-B4-B00-E xx -R xxx - xxx

DUAL PRESSURE MODELS (INTERNAL PILOT ONLY)

Port size	Pilot air	Single solenoid	Double solenoid
M3	Internal from port #3	23A-C2-C00-E xx -R xxx - xxx	23A-D2-C00-E xx -R xxx - xxx
	Internal from port #5	23A-C3-C00-E xx -R xxx - xxx	23A-D3-C00-E xx -R xxx - xxx
M5	Internal from port #3	23A-C2-B00-E xx -R xxx - xxx	23A-D2-B00-E xx -R xxx - xxx
	Internal from port #5	23A-C3-B00-E xx -R xxx - xxx	23A-D3-B00-E xx -R xxx - xxx

SOLENOID OPERATOR ►

E xx -R xxx - xxx *				
xx Pilot type	xx Voltage	x Lead wire length	x Manual operator	xx Electrical connection
M2 Muffled exhaust	DB 24VDC (1.0W)	0* No lead wire	0 No manual operator	BA Flying leads
P2 Piped exhaust (M3)	DC 24VDC (1.8W)	A 45 cm	1 Recessed non locking	BB Flying leads w/ LED
	DD 24VDC (2.5W)	B 60 cm	3 Extended non locking	RA Mini JAC solenoid plug-in
	DE 24VDC (3.0W)	C 90 cm		RB Mini JAC sol. plug-in w/ LED
	DF 24VDC (4.0W)			TA JST solenoid plug-in
	DH 12VDC (1.0W)			TB JST sol. plug-in w/ LED
	DJ 12VDC (1.8W)			
	DK 12VDC (2.5W)			
	DL 12VDC (3.0W)			
	DM 12VDC (4.0W)			

* Other options availat le, see page 397.

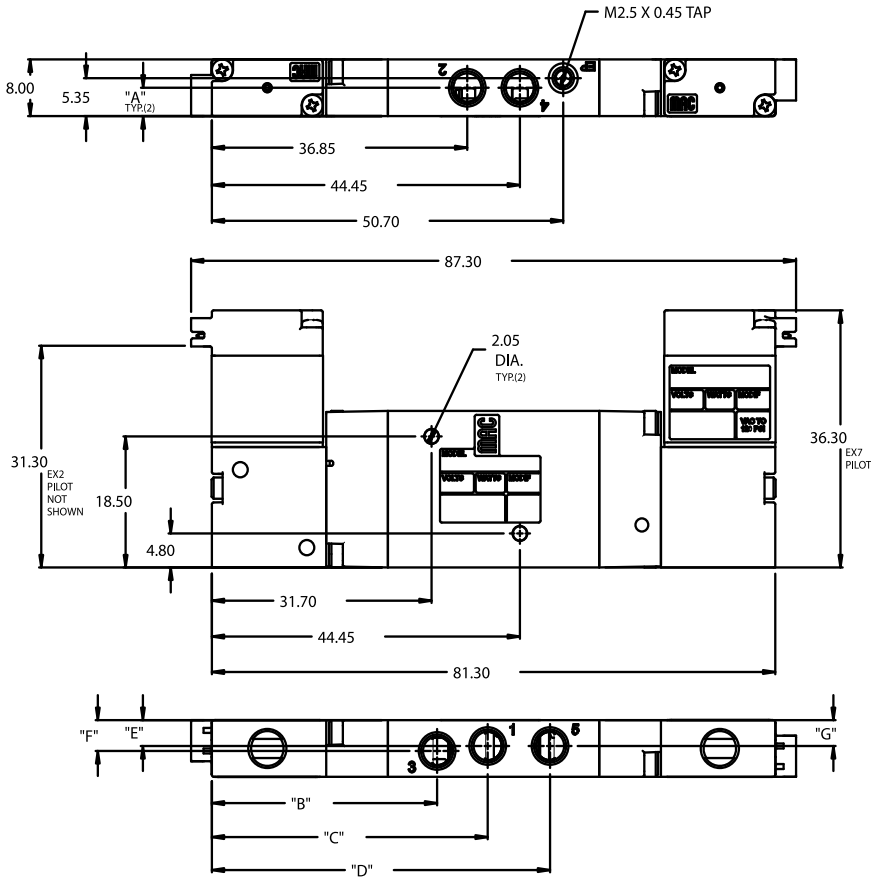
* Not available for flying lead connectors.
Note: For pilot exhaust out main exhaust, Mod. 0353 is required

TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot: Single solenoid air return: 2 to 8 bar Single solenoid spring return: 2,7 to 8 bar Double solenoid: 1,3 to 8 bar External pilot: vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Flow :	230 NL/min
Coil :	Class A (#26 AWG x 18), continuous duty
Voltage range :	-15% to +10% of nominal voltage
Power :	4.0W, 3.0W, 2.5W, 1.8W, 1.0W

DIMENSIONS

Dimensions shown are metric (mm)



DIM	M3 X 0.5 PORT OPTION	#10-32 OR M5 PORT OPTION
A	3.20	4.00
B	33.00	32.50
C	40.60	39.80
D	48.20	48.80
E	4.00	3.65
F	4.00	4.35
G	4.00	3.65

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 8 mm valve

Function	Port size	Flow [Max]	Individual mounting	Series
5/2	M3,M5	230 NI/min	Subbase non plug-in	

OPERATIONAL BENEFITS

1. 8 mm valve – solenoid pilot operated.
2. Balanced spool, immune to variations of pressure.
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5. Pilot valve with balanced poppet, high flow, short and consistent response times

HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot air	Single solenoid	Double solenoid
			
Valve less base	Internal	23A-AD-000-Exx-Rxxx-xxx	23A-BD-000-Exx-Rxxx-xxx
	External	23A-AE-000-Exx-Rxxx-xxx	23A-BE-000-Exx-Rxxx-xxx
M3	Internal	23A-AD-C1B-Exx-Rxxx-xxx	23A-BD-C1B-Exx-Rxxx-xxx
	External	23A-AE-C1B-Exx-Rxxx-xxx	23A-BE-C1B-Exx-Rxxx-xxx
M5	Internal	23A-AD-B1B-Exx-Rxxx-xxx	23A-BD-B1B-Exx-Rxxx-xxx
	External	23A-AE-B1B-Exx-Rxxx-xxx	23A-BE-B1B-Exx-Rxxx-xxx

DUAL PRESSURE MODELS (INTERNAL PILOT ONLY)

Port size	Pilot air	Single solenoid	Double solenoid
			
Valve less base	Internal from port #3	23A-CJ-000-Exx-Rxxx-xxx	23A-DJ-000-Exx-Rxxx-xxx
	Internal from port #5	23A-CK-000-Exx-Rxxx-xxx	23A-DK-000-Exx-Rxxx-xxx
M3	Internal from port #3	23A-CJ-C1B-Exx-Rxxx-xxx	23A-DJ-C1B-Exx-Rxxx-xxx
	Internal from port #5	23A-CK-C1B-Exx-Rxxx-xxx	23A-DK-C1B-Exx-Rxxx-xxx
M5	Internal from port #3	23A-CJ-B1B-Exx-Rxxx-xxx	23A-DJ-B1B-Exx-Rxxx-xxx
	Internal from port #5	23A-CK-B1B-Exx-Rxxx-xxx	23A-DK-B1B-Exx-Rxxx-xxx

SOLENOID OPERATOR ➤

E

xx-Rxxx-xxx**

xx	Pilot type	xx	Voltage	X	Lead wire length	X	Manual operator	xx	Electrical connection
M2	Muffled exhaust	DB	24VDC (1.0W)	0*	No lead wire	0	No manual operator	BA	Flying leads
P2	Piped exhaust (M3)	DC	24VDC (1.8W)	A	45 cm	1	Recessed non locking	BB	Flying leads w/ LED
		DD	24VDC (2.5W)	B	60 cm	3	Extended non locking	RA	Mini JAC sol. solenoid plug-in
		DE	24VDC (3.0W)	C	90 cm			RB	Mini JAC sol. plug-in w/ LED
		DF	24VDC (4.0W)					TA	JST solenoid plug-in
		DH	12VDC (1.0W)					TB	JST sol. plug-in w/ LED
		DJ	12VDC (1.8W)						
		DK	12VDC (2.5W)						
		DL	12VDC (3.0W)						
		DM	12VDC (4.0W)						

* Not available for flying lead connectors.
 Note: For pilot exhaust out main exhaust, Mod. 0353 is required.
 Must use M7 or P7 pilot type.

** Other options available, see page 397.

OPTIONS

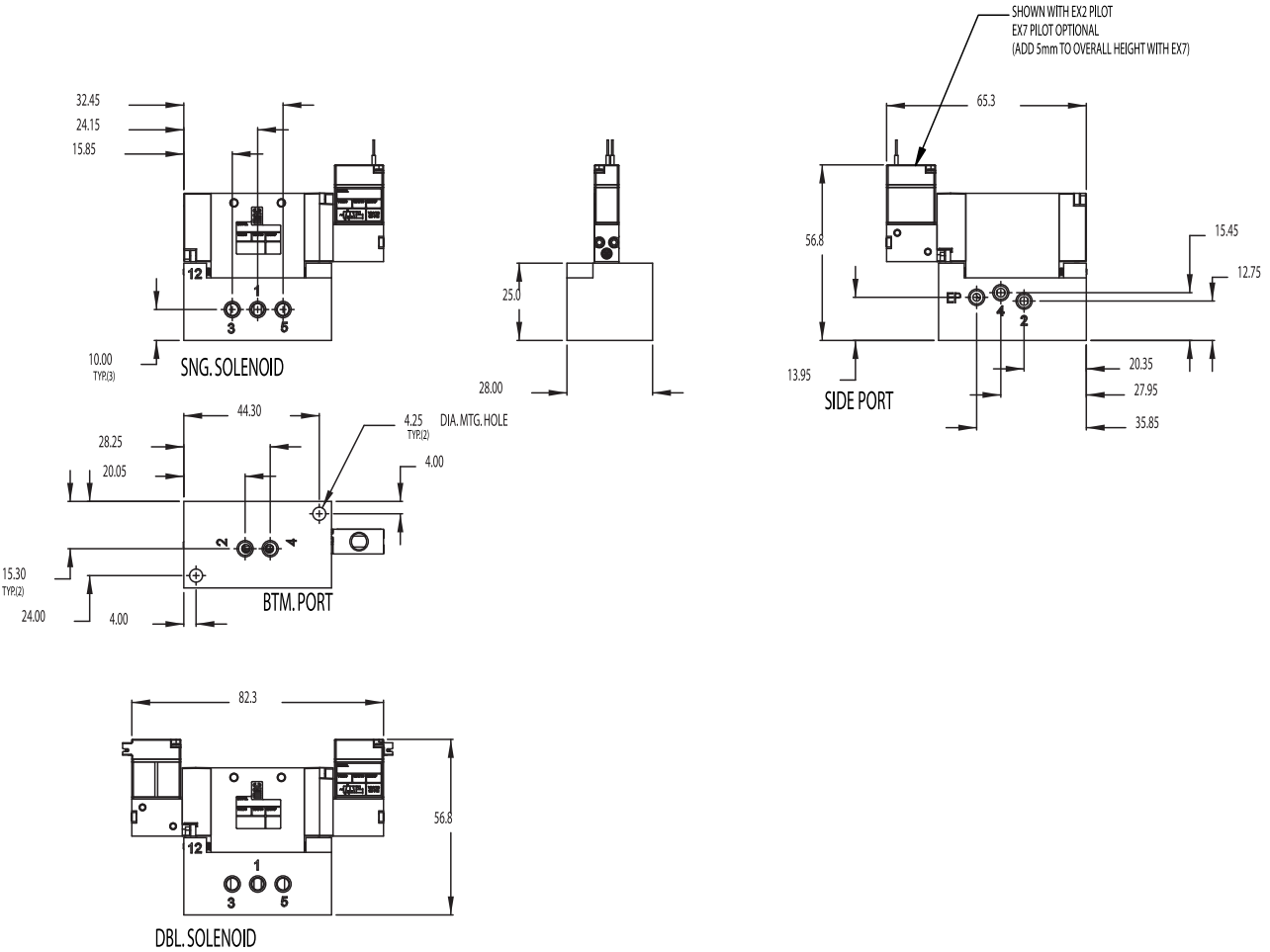
23A-xx-XxX-Exx-Rxxx-xxx

1 Individual base – Side ports
 2 Individual base – Bottom ports (no side ports)

TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot: Single solenoid air return: 2 to 8 bar Single solenoid spring return: 2,7 to 8 bar Double solenoid: 1,3 to 8 bar External pilot: vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Flow :	230 NL/min
Coil :	Class A (#26 AWG x 18), continuous duty
Voltage range :	-15% to +10% of nominal voltage
Power :	4.0W, 3.0W, 2.5W, 1.8W, 1.0W

DIMENSIONS

Dimensions shown are metric (mm)



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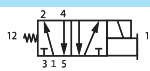
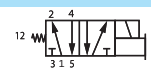
Function	Port size	Flow [Max]	Manifold mounting	Series
5/2	M3,M5	230 NI/min	Manifold base non plug-in	

OPERATIONAL BENEFITS

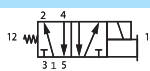
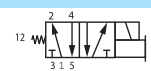
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HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot air	Single solenoid	Double solenoid
			
Valve only	Internal	23A-AD-000-Exx-Rxxx-xxx	23A-BD-000-Exx-Rxxx-xxx
	External	23A-AE-000-Exx-Rxxx-xxx	23A-BE-000-Exx-Rxxx-xxx
M3	Internal	23A-AD-CAB-Exx-Rxxx-xxx	23A-BD-CAB-Exx-Rxxx-xxx
	External	23A-AE-CAB-Exx-Rxxx-xxx	23A-BE-CAB-Exx-Rxxx-xxx
M5	Internal	23A-AD-BAB-Exx-Rxxx-xxx	23A-BD-BAB-Exx-Rxxx-xxx
	External	23A-AE-BAB-Exx-Rxxx-xxx	23A-BE-BAB-Exx-Rxxx-xxx

DUAL PRESSURE MODELS (INTERNAL PILOT ONLY)

Port size	Pilot air	Single solenoid	Double solenoid
			
Valve only	Internal from port #3	23A-CJ-000-Exx-Rxxx-xxx	23A-DJ-000-Exx-Rxxx-xxx
	Internal from port #5	23A-CK-000-Exx-Rxxx-xxx	23A-DK-000-Exx-Rxxx-xxx
M3	Internal from port #3	23A-CJ-CAB-Exx-Rxxx-xxx	23A-DJ-CAB-Exx-Rxxx-xxx
	Internal from port #5	23A-CK-CAB-Exx-Rxxx-xxx	23A-DK-CAB-Exx-Rxxx-xxx
M5	Internal from port #3	23A-CJ-BAB-Exx-Rxxx-xxx	23A-DJ-BAB-Exx-Rxxx-xxx
	Internal from port #5	23A-CK-BAB-Exx-Rxxx-xxx	23A-DK-BAB-Exx-Rxxx-xxx

SOLENOID OPERATOR ➤

XX	Pilot type	XX	Voltage	X	Lead wire length	X	Manual operator	XX	Electrical connection
M2	Muffled exhaust	DB	24VDC (1.0W)	0*	No lead wire	0	No manual operator	BA	Flying leads
P2	Piped exhaust (M3)	DC	24VDC (1.8W)	A	45 cm	1	Recessed non locking	BB	Flying leads w/ LED
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		DJ	12VDC (1.8W)						
		DK	12VDC (2.5W)						
		DL	12VDC (3.0W)						
		DM	12VDC (4.0W)						

** Other options available, see page 397.

OPTIONS

23A-XX-XxX-Exx-Rxxx-xxx

- A Manifold base – Side cylinder ports
- B Manifold base – Bottom cylinder ports (no side cylinder ports)



