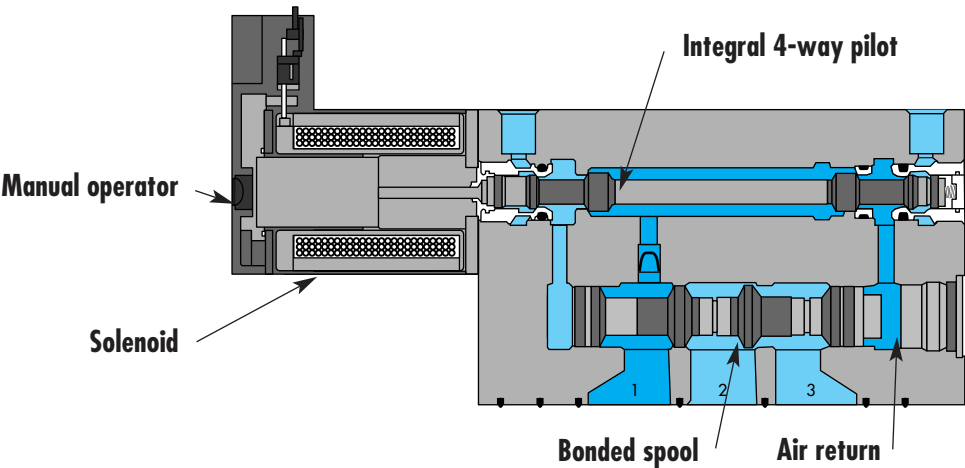


Individual mounting

Sub-base non "plug-in"	Sub-base "plug-in"	Sub-base/ manifold base non "plug-in" with latching solenoid	Sub-base/ manifold base "plug-in" with latching solenoid
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Manifold mounting

Manifold base non "plug-in"	Manifold base "plug-in"	Sub-base/ manifold base non "plug-in" with latching solenoid	Sub-base/ manifold base "plug-in" with latching solenoid
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SERIES FEATURES

- High force MACSOLENOID®.
- Integral 4-way pilot design.
- Internal or external pilot.
- Normally open or normally closed function.
- Universal function (external pilot).
- Rectified AC voltage.
- Latching solenoid technology.

Series

31
 33
 34
 36

32

37
 38
 52
 53
 54
 67
 68
 69
 41
 43
 44
 23
 24
 46
 42
 47
 48P

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400

92

83

93

ISO 01

ISO 02

ISO 1

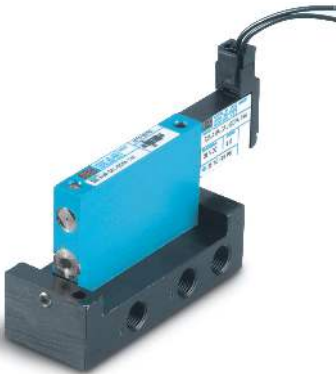
ISO 2

ISO 3

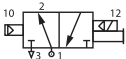
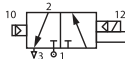
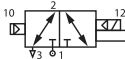
Function	Port size	Flow [Max]	Individual mounting	Series
3/2 NO-NC	G1/8"	400 NI/min	Sub-base non "plug-in"	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 10.5 mm centres).
3. High flow (up to 400 NI/min).
4. Fast, repeatable response times.
5. Maximum shifting forces in both directions.



HOW TO ORDER

Port size	Pilot air	NO valve	NC valve	Universal valve
				
Valve less base	Internal	32B-BMA-000-Gxxx-xxx	32B-AMA-000-Gxxx-xxx	
	External	32B-BMB-000-Gxxx-xxx	32B-AMB-000-Gxxx-xxx	32B-GMB-000-Gxxx-xxx
G1/8"	Internal	32B-BMA-HAL-Gxxx-xxx	32B-AMA-HAL-Gxxx-xxx	
	External	32B-BMB-HAM-Gxxx-xxx	32B-AMB-HAM-Gxxx-xxx	32B-GMB-HAM-Gxxx-xxx

Note : Above codes are for side port.

STANDARD SOLENOID OPERATOR >

XX Voltage		X Wire length		X Manual operator		XX Electrical connection	
AA	120 V~/2,5W	A	45 cm	1	Non-locking	BA	Flying leads
DA	24 V~/1,0W	B	60 cm	2	Locking	BT	Flying leads with light
DC	24 V~/1,8W	C	90 cm			GA	MAC JAC Solenoid plug-in
DD	24 V~/2,5W					GB	MAC JAC Solenoid plug-in with diode
DF	24 V~/4,0W					GC	MAC JAC Solenoid plug-in with MOV
						GD	MAC JAC Solenoid plug-in with LED
						GE	MAC JAC Solenoid plug-in with diode and LED
						GF	MAC JAC Solenoid plug-in with MOV and LED
						GG	MAC JAC Solenoid plug-in with rectifier
						GH	MAC JAC Solenoid plug-in with rectifier and LED
						KA	Mini connector
						KD	Mini connector with rectifier light and ground
						KT	Mini connector with light

Note : AC voltage requires connector with rectifier.

* Other options available, see page 387.

Washdown capability is possible for the "G" type electrical connector. Consult factory for ordering information

Latching solenoid also available, see page 45.

OPTIONS

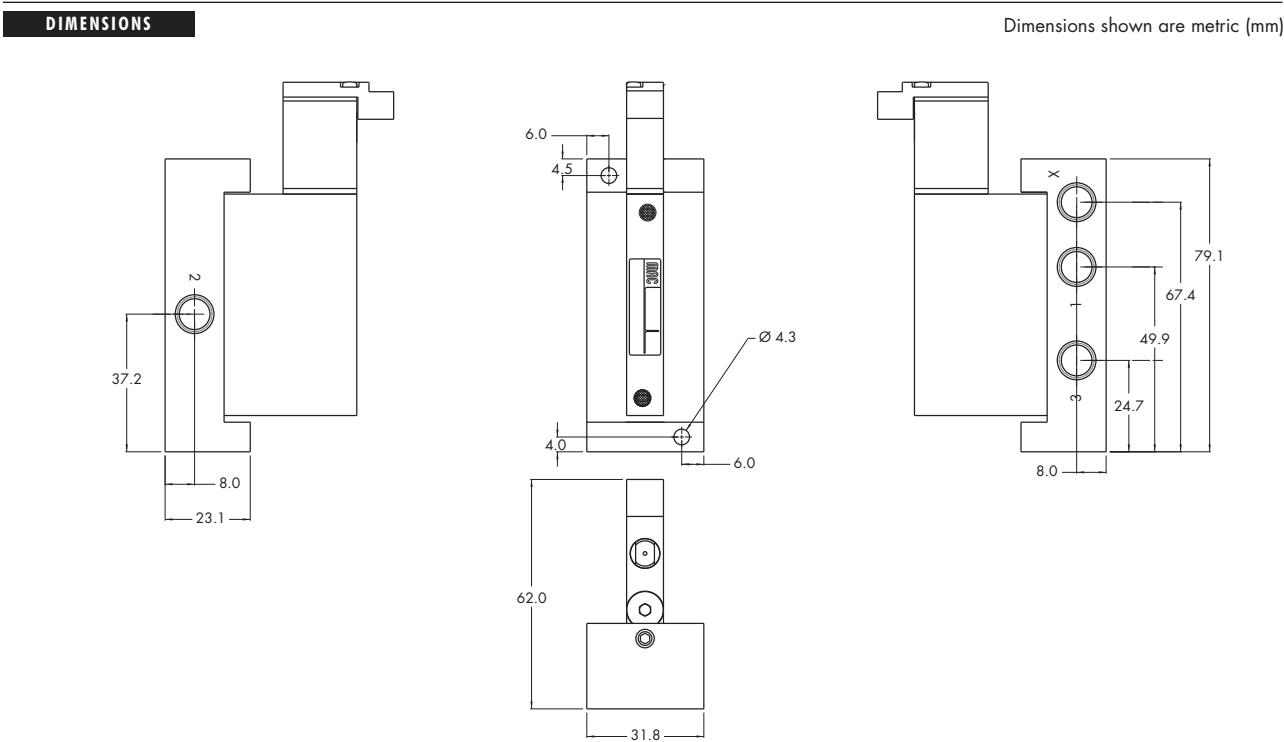
Pilot/Base Configuration :

32B-xMx-xAx-Gxxx-xxx	
A	Individual base – Side port
B	Individual base – Bottom port
M	Pilot exhaust muffled
R	Pilot exhaust piped M5
U	Pilot exhaust to main exhaust (not available with external pilot)

TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 1,3 to 8 bar External Pilot : Vacuum to 8 bar
Pilot pressure :	1,3 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 :	3,8 mm
Flow (at 6 bar, ΔP=1 bar) :	G1/8" : 400 Nl/min (Cv 0,40)
Coil :	Epoxy encapsulated – 100% ED – Class A wire
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	1.0 to 4.0 W
Response times :	Energize : 5 ms
(with 4 W coil)	De-energize : 5 ms

Options :

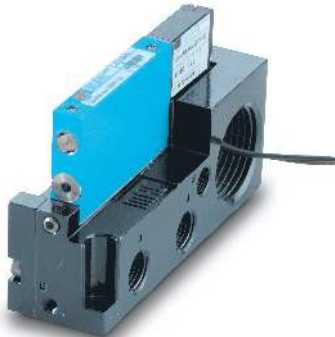
- NPTF threads



Function	Port size	Flow [Max]	Individual mounting	Series
3/2 NO-NC	M5, M7	400 NI/min	Sub-base "plug-in"	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 10.5 mm centres).
3. High flow (up to 400 NI/min).
4. Fast, repeatable response times.
5. Maximum shifting forces in both directions.



HOW TO ORDER

Port size	Pilot air	NO valve	NC valve	Universal valve
Valve less base	Internal	32B-BMA-000-GxxP-xxx	32B-AMA-000-GxxP-xxx	
	External	32B-BMB-000-GxxP-xxx	32B-AMB-000-GxxP-xxx	32B-GMB-000-GxxP-xxx
M5	Internal	32B-BMA-GAA-GxxP-xxx	32B-AMA-GAA-GxxP-xxx	
	External	32B-BMB-GAB-GxxP-xxx	32B-AMB-GAB-GxxP-xxx	32B-GMB-GAB-GxxP-xxx
M7	Internal	32B-BMA-LAA-GxxP-xxx	32B-AMA-LAA-GxxP-xxx	
	External	32B-BMB-LAB-GxxP-xxx	32B-AMB-LAB-GxxP-xxx	32B-GMB-LAB-GxxP-xxx

Note : Above codes are for side port.

STANDARD SOLENOID OPERATOR ►

G xx P- xxx *		
xx Voltage	x Manual operator	xx Electrical connection
AA 120 V~/2,5W	1 Non-locking	SA Base plug-in
DA 24 V~/1,0W	2 Locking	SJ Base plug-in with light
DC 24 V=/1,8W		SS Base plug-in with rectifier & light & ground
DD 24 V=/2,5W		
DF 24 V=/4,0W		

Note : AC voltage requires connector with rectifier.

* Other options available, see page 387.

Washdown capability is possible for the "G" type electrical connector. Consult factory for ordering information.

Latching solenoid also available, see page 47.

OPTIONS

Pilot/Base Configuration :

32B- xM - x A -G xx P- xxx	
A Individual base – Side port	
B Individual base – Bottom port	
M Pilot exhaust muffled	
R Pilot exhaust piped M5	
U Pilot exhaust to main exhaust (not available with external pilot)	

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48P

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400

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ISO 01

ISO 02

ISO 1

ISO 2

ISO 3

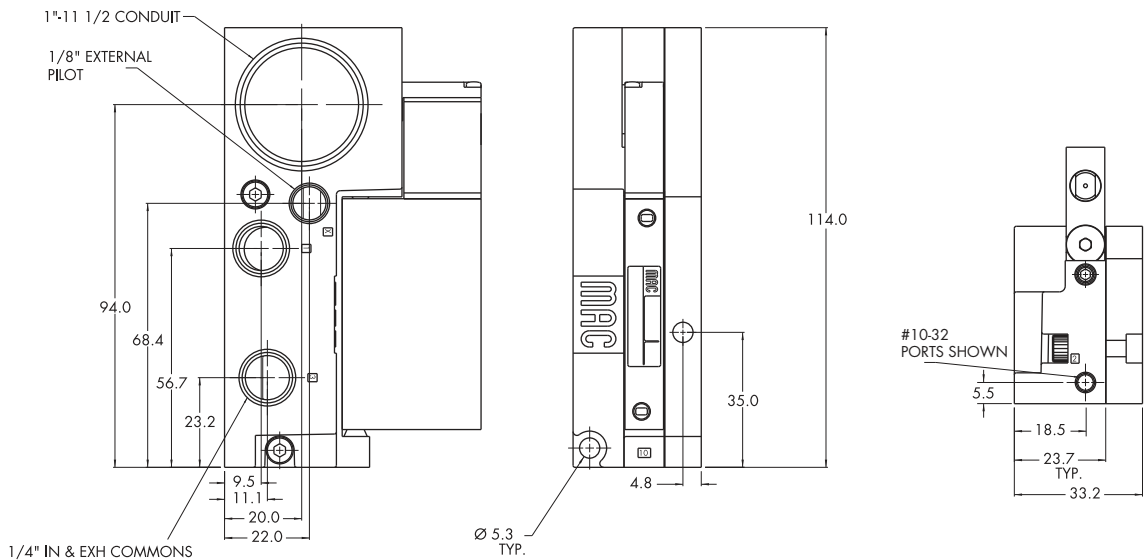
TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 1,3 to 8 bar External Pilot : Vacuum to 8 bar
Pilot pressure :	1,3 to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	3,8 mm
Flow (at 6 bar, ΔP=1bar) :	M5 : 350 Nl/min (Cv 0,35) - M7 : 400 Nl/min (Cv 0,40)
Coil :	Epoxy encapsulated – 100% ED – Class A wire
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	1.0 to 4.0 W
Response times : (with 4 W coil)	Energize : 5 ms De-energize : 5 ms

Options :

- NPTF threads

DIMENSIONS

Dimensions shown are metric (mm)



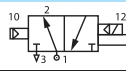
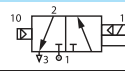
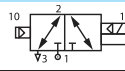
Function	Port size	Flow [Max]	Manifold mounting	Series
3/2 NO-NC	M5, M7	400 NI/min	Manifold base non "plug-in"	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 10.5 mm centres).
3. High flow (up to 400 NI/min).
4. Fast, repeatable response times.
5. Maximum shifting forces in both directions.



HOW TO ORDER

Port size	Pilot air	NO valve	NC valve	Universal valve
				
Valve less base	Internal	32B-BMA-000-Gxxx-xxx	32B-AMA-000-Gxxx-xxx	
	External	32B-BMB-000-Gxxx-xxx	32B-AMB-000-Gxxx-xxx	32B-GMB-000-Gxxx-xxx
M5	Internal	32B-BMA-GJL-Gxxx-xxx	32B-AMA-GJL-Gxxx-xxx	
	External	32B-BMB-GJM-Gxxx-xxx	32B-AMB-GJM-Gxxx-xxx	32B-GMB-GJM-Gxxx-xxx
M7	Internal	32B-BMA-LJL-Gxxx-xxx	32B-AMA-LJL-Gxxx-xxx	
	External	32B-BMB-LJM-Gxxx-xxx	32B-AMB-LJM-Gxxx-xxx	32B-GMB-LJM-Gxxx-xxx

Note : Above codes are for side port.

STANDARD SOLENOID OPERATOR ►

G **XXX-XXX***

XX Voltage	X Wire length	X Manual operator	XX Electrical connection
AA 120 V~/2,5W	A 45 cm	1 Non-locking	BA Flying leads
DA 24 V~/1,0W	B 60 cm	2 Locking	BT Flying leads with light
DC 24 V=/1,8W	C 90 cm		GA MAC JAC Solenoid plug-in
DD 24 V=/2,5W			GB MAC JAC Solenoid plug-in with diode
DF 24 V=/4,0W			GC MAC JAC Solenoid plug-in with MOV
			GD MAC JAC Solenoid plug-in with LED
			GE MAC JAC Solenoid plug-in with diode and LED
			GF MAC JAC Solenoid plug-in with MOV and LED
			GG MAC JAC Solenoid plug-in with rectifier
			GH MAC JAC Solenoid plug-in with rectifier and LED
			KA Mini connector
			KD Mini connector with rectifier light and ground
			KT Mini connector with light

Note : AC voltage requires connector with rectifier.

* Other options available, see page 387.

Washdown capability is possible for the "G" type electrical connector. Consult factory for ordering information.

Latching solenoid also available, see page 45.

OPTIONS

Base only :

32B-000-xxx (i.e. 32B-000-GJL)

Base Configuration :

32B-xM-xJL-Gxxx-xxx

- J Manifold base – Side port
- K Manifold base – Bottom port

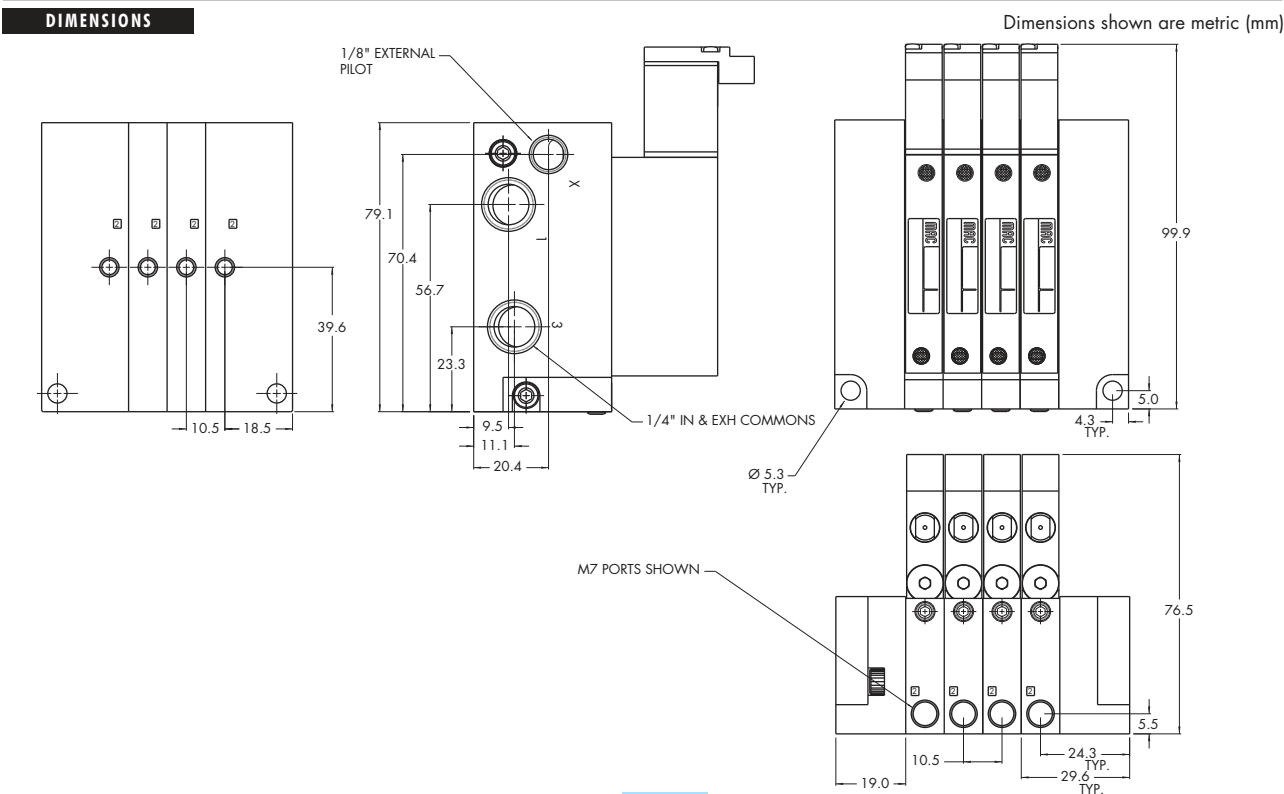
- M Pilot exhaust muffled
- R Pilot exhaust piped M5
- U Pilot exhaust to main exhaust (not available with external pilot)

Note : Manifold assemblies require an end plate kit :
M-32003-01-01P (Internal pilot)
M-32003-02-01P (External pilot)

TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 1,3 to 8 bar External Pilot : Vacuum to 8 bar
Pilot pressure :	1,3 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 :	3,8 mm
Flow (at 6 bar, ΔP=1bar) :	M5 : 350 Nl/min (Cv 0,35) - M7 : 400 Nl/min (Cv 0,40)
Coil :	Epoxy encapsulated – 100% ED – Class A wire
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	1.0 to 4.0 W
Response times :	Energize : 5 ms
(with 4 W coil)	De-energize : 5 ms

Options :

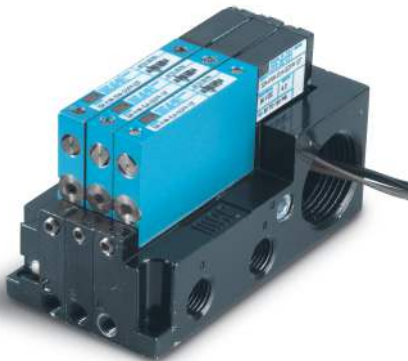
• NPTF threads



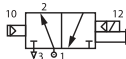
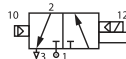
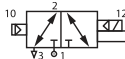
Function	Port size	Flow [Max]	Manifold mounting	Series
3/2 NO-NC	M5, M7	400 NI/min	Manifold base "plug-in"	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 10.5 mm centres).
3. High flow (up to 400 NI/min).
4. Fast, repeatable response times.
5. Maximum shifting forces in both directions.



HOW TO ORDER

Port size	Pilot air	NO valve	NC valve	Universal valve
				
Valve less base	Internal	32B-BMA-000-GxxP-xxx	32B-AMA-000-GxxP-xxx	
	External	32B-BMB-000-GxxP-xxx	32B-AMB-000-GxxP-xxx	32B-GMB-000-GxxP-xxx
M5	Internal	32B-BMA-GJA-GxxP-xxx	32B-AMA-GJA-GxxP-xxx	
	External	32B-BMB-GJB-GxxP-xxx	32B-AMB-GJB-GxxP-xxx	32B-GMB-GJB-GxxP-xxx
M7	Internal	32B-BMA-LJA-GxxP-xxx	32B-AMA-LJA-GxxP-xxx	
	External	32B-BMB-LJB-GxxP-xxx	32B-AMB-LJB-GxxP-xxx	32B-GMB-LJB-GxxP-xxx

Note : Above codes are for side port.

STANDARD SOLENOID OPERATOR

G xx P- xxx *		
xx Voltage	x Manual operator	xx Electrical connection
AA 120 V~/2,5W	1 Non-locking	SA Base plug-in
DA 24 V=/1,0W	2 Locking	SJ Base plug-in with light
DC 24 V=/1,8W		SS Base plug-in with rectifier & light & ground
DD 24 V=/2,5W		
DF 24 V=/4,0W		

Note : AC voltage requires connector with rectifier.

* Other options available, see page 387.

Washdown capability is possible for the "G" type electrical connector. Consult factory for ordering information.

Latching solenoid also available, see page 47.

OPTIONS

Base only :

32B-000-xxx (i.e. 32B-000-GJA)

Base Configuration :

32B-xxx-Jx-Gxx P-xxx

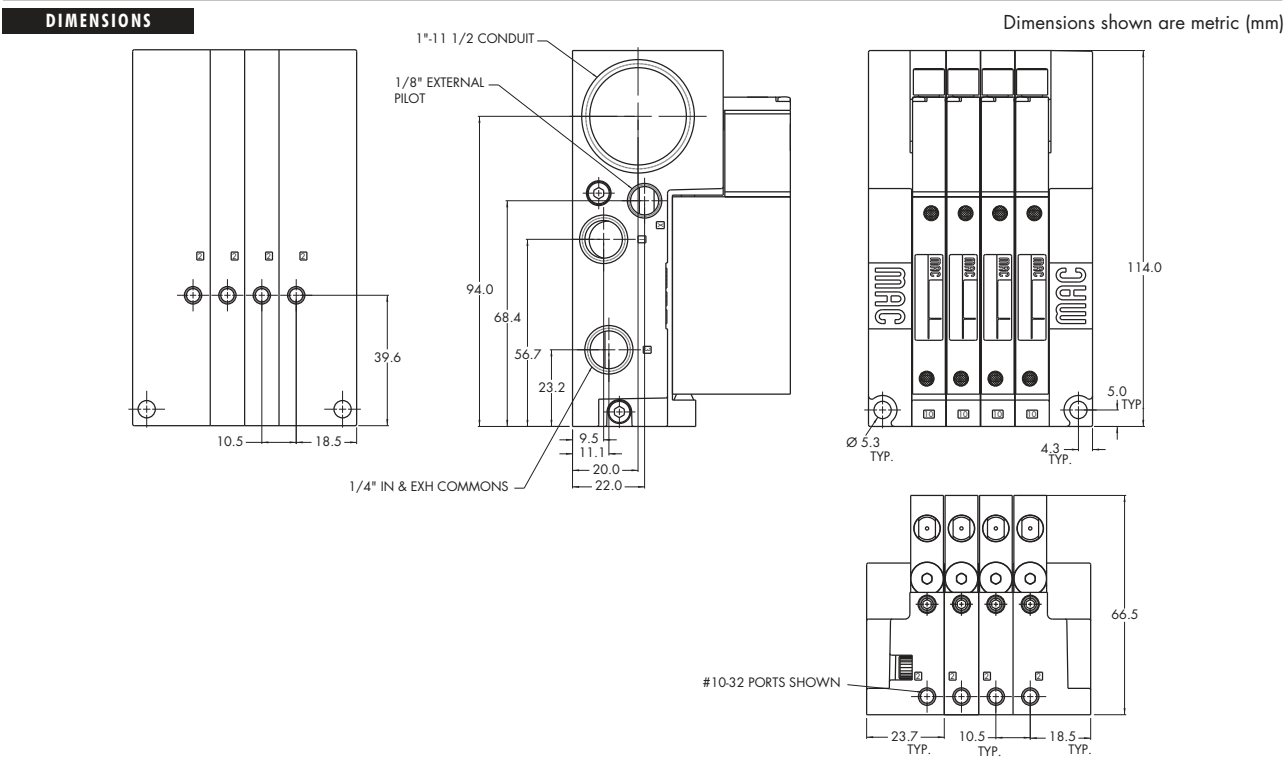
- J Manifold base – Side port
 - K Manifold base – Bottom port
 - L Left end manifold base - Side port
 - M Left end manifold base - Bottom port
 - N Right end manifold base - Side port
 - P Right end manifold base - Bottom port

Note : Manifold assemblies consist of (1) left end manifold, (1) right end manifold and middle station manifolds (options "J" or "K").

TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 1,3 to 8 bar External Pilot : Vacuum to 8 bar
Pilot pressure :	1,3 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 :	3,8 mm
Flow (at 6 bar, ΔP=1bar) :	M5 : 350 NI/min (Cv 0,35) - M7 : 400 NI/min (Cv 0,40)
Coil :	Epoxy encapsulated – 100% ED – Class A wire
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	1.0 to 4.0 W
Response times : (with 4 W coil)	Energize : 5 ms De-energize : 5 ms

Options :

- NPTF threads



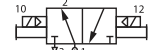
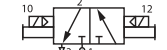
Function	Port size	Flow [Max]	Individual/Manifold mounting	Series
3/2 NO-NC	M5, M7	400 NI/min	Subbase/ manifold base non "plug-in" with latching solenoid	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 10.5 mm centres).
3. High flow (up to 400 NI/min).
4. Fast, repeatable response times.
5. Maximum shifting forces in both directions.



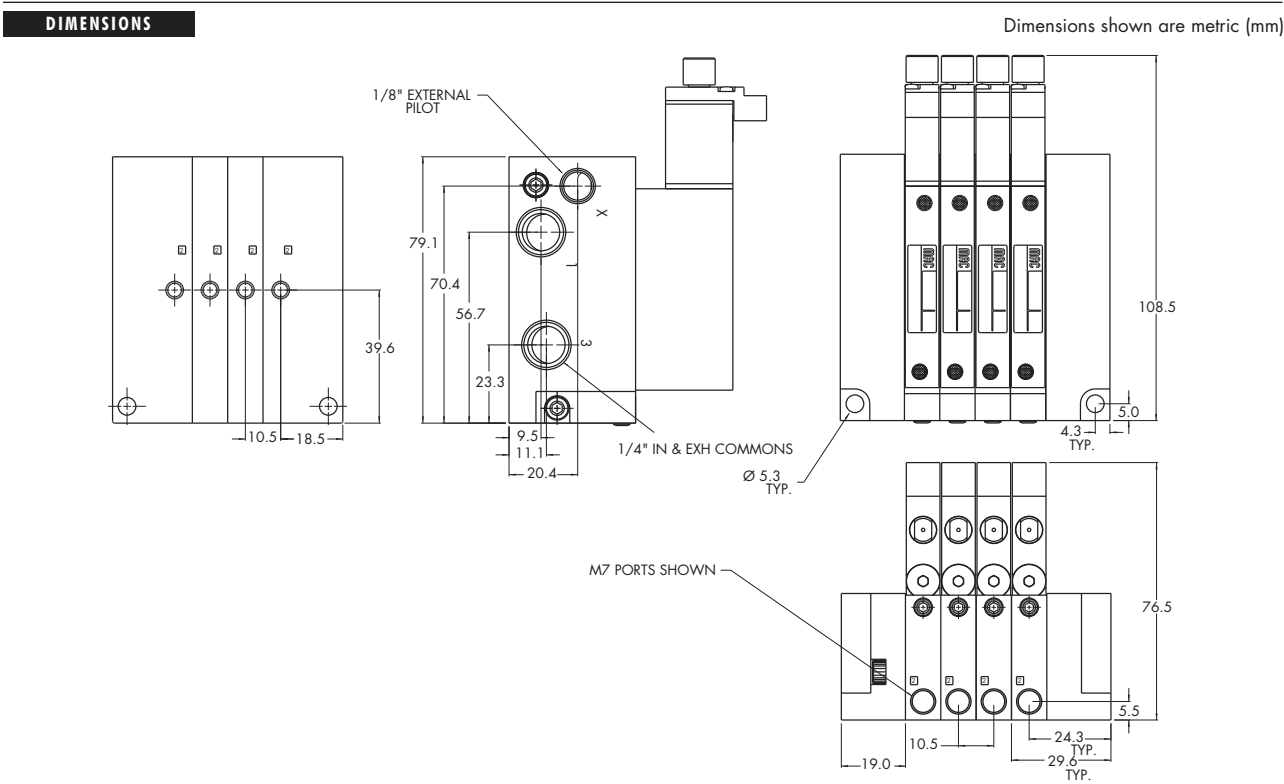
HOW TO ORDER

Port size	Pilot air	NO valve	NC valve
			
Valve less base	Internal	32B-BMA-000-Lxxx-xxx	32B-AMA-000-Lxxx-xxx
	External	32B-BMB-000-Lxxx-xxx	32B-AMB-000-Lxxx-xxx
M5	Internal	32B-BMA-GAL-Lxxx-xxx	32B-AMA-GAL-Lxxx-xxx
	External	32B-BMB-GAM-Lxxx-xxx	32B-AMB-GAM-Lxxx-xxx
M7	Internal	32B-BMA-LAL-Lxxx-xxx	32B-AMA-LAL-Lxxx-xxx
	External	32B-BMB-LAM-Lxxx-xxx	32B-AMB-LAM-Lxxx-xxx

TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 1,3 to 8 bar External Pilot : Vacuum to 8 bar
Pilot pressure :	1,3 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 :	3,8 mm
Flow (at 6 bar, ΔP=1 bar) :	M5 : 350 Nl/min (Cv 0,35) - M7 : 400 Nl/min (Cv 0,40)
Coil :	Epoxy encapsulated – 100% ED – Class A wire
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	1.95 to 4.0 W
Response times :	Energize : 5 ms
(with 4 W coil)	De-energize : 5 ms

Options :

- NPTF threads



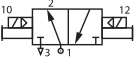
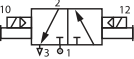
Function	Port size	Flow [Max]	Individual/Manifold mounting	Series
3/2 NO-NC	M5, M7	400 NI/min	Sub-base/ manifold base "plug-in" with latching solenoid	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 10.5 mm centres).
3. High flow (up to 400 NI/min).
4. Fast, repeatable response times.
5. Maximum shifting forces in both directions.



HOW TO ORDER

Port size	Pilot air	NO valve	NC valve
			
Valve less base	Internal	32B-BMA-000-LxxP-xxx	32B-AMA-000-LxxP-xxx
	External	32B-BMB-000-LxxP-xxx	32B-AMB-000-LxxP-xxx
M5	Internal	32B-BMA-GAA-LxxP-xxx	32B-AMA-GAA-LxxP-xxx
	External	32B-BMB-GAB-LxxP-xxx	32B-AMB-GAB-LxxP-xxx
M7	Internal	32B-BMA-LAA-LxxP-xxx	32B-AMA-LAA-LxxP-xxx
	External	32B-BMB-LAB-LxxP-xxx	32B-AMB-LAB-LxxP-xxx

Note : Above codes are for individual base and side port.

LATCHING SOLENOID OPERATOR ➤

L XX P- xxx *		
XX Voltage	X Manual operator	XX Electrical connection**
DF 24 V=/4,0W	0 No operator	DA Base/Manifold Plug-in
HA 24 V=/1,95W		DB Base/Manifold Plug-in w/Ground
		DC Base/Manifold Plug-in w/ Light
		DD Base/Manifold Plug-in w/ Light and Ground
		EA Base/Manifold Plug-in 3 Pin (Polarity Switching Cover)

* Other options available, see page 395.
 **2 and 4 wire base must use "D" type electrical connector, 3 wire base must use "EA" type electrical connector.

OPTIONS

Manifold/Base Configuration :

32B-xMx-xA-LxxP-xxx	A Individual base – Side port B Individual base – Bottom port J Manifold base – Side port K Manifold base – Bottom port L Left end manifold base - Side port M Left end manifold base - Bottom port N Right end manifold base - Side port P Right end manifold base - Bottom port M Pilot exhaust muffled R Pilot exhaust piped M5 U Pilot exhaust to main exhaust (not available with external pilot)
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Base Int./Ext. Pilot :

32B-xxx-xxA-LxxP-xxx	A Plug-In Int. Pilot (2 Wire)** B Plug-In Ext. Pilot (2 Wire)** C Plug-In Int. Pilot (3 Wire)** D Plug-In Ext. Pilot (3 Wire)** E Plug-In Int. Pilot (4 Wire)** F Plug-In Ext. Pilot (4 Wire)**
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Note : Manifold assemblies consist of (1) left end manifold, (1) right end manifold, and middle station manifolds (option J or K).

TECHNICAL DATA	
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 1,3 to 8 bar External Pilot : Vacuum to 8 bar
Pilot pressure :	1,3 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 :	3,8 mm
Flow (at 6 bar, ΔP=1 bar) :	M5 : 350 Nl/min (Cv 0,35) - M7 : 400 Nl/min (Cv 0,40)
Coil :	Epoxy encapsulated – 100% ED – Class A wire
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	1.0 to 4.0 W
Response times :	Energize : 5 ms
(with 4 W coil)	De-energize : 5 ms

Options :

• NPTF threads

