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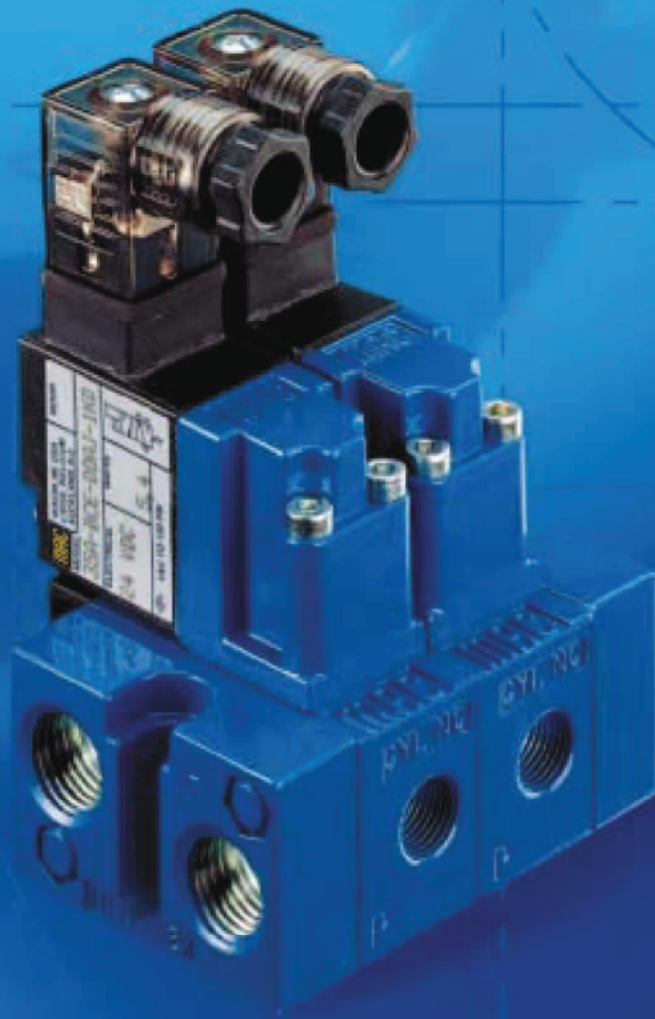
MAC

V A L V E S



LDA

Solutions for Life



A i r V a l v e s

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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Series

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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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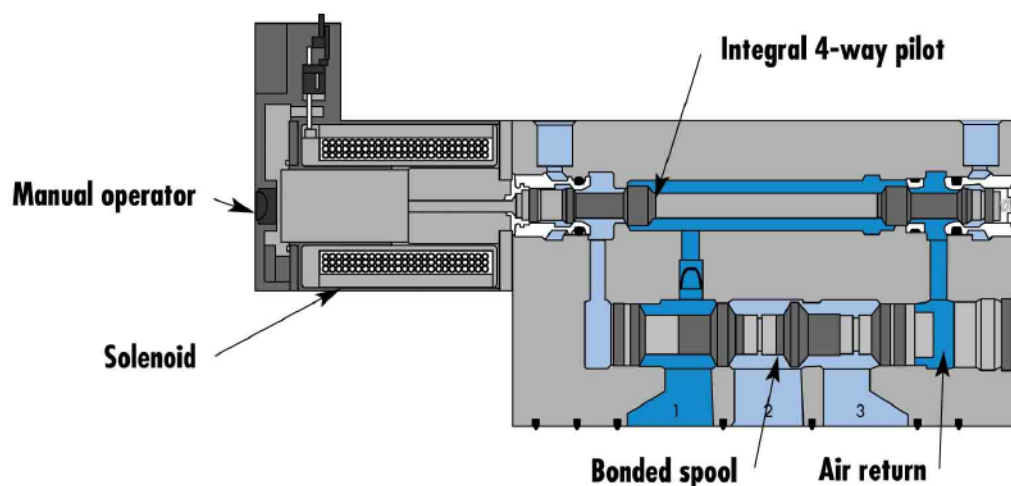
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ISO 1

ISO 2

ISO 3



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.

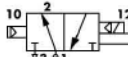
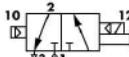
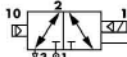
Function	Port size	Flow [Max]	Individual mounting	Series
3/2 NO-NC	1/8" - 1/4" O.D. tube receptacle	1.2 C_v	Sub-base non "plug-in"	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1.2 C_v).
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	38A-BMA-000-G-XXX-XXX	38A-AMA-000-G-XXX-XXX	
	External	38A-BMB-000-G-XXX-XXX	38A-AMB-000-G-XXX-XXX	38A-GMB-000-G-XXX-XXX
1/8" NPTF	Internal	38A-BMA-AAL-G-XXX-XXX	38A-AMA-AAL-G-XXX-XXX	
	External	38A-BMB-AAM-G-XXX-XXX	38A-AMB-AAM-G-XXX-XXX	38A-GMB-AAM-G-XXX-XXX
1/4" O.D. Tube receptacle	Internal	38A-BMA-EAL-G-XXX-XXX	38A-AMA-EAL-G-XXX-XXX	
	External	38A-BMB-EAM-G-XXX-XXX	38A-AMB-EAM-G-XXX-XXX	38A-GMB-EAM-G-XXX-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 VAC (2.5W)	A	18"	1	Non-locking recessed	BA	Flying leads
DA	24 VDC (1.0W)	B	24"	2	Locking recessed	BT	Flying leads with light
DC	24 VDC (1.8W)	C	36"			KA	Plug-in wire assembly
DD	24 VDC (2.5W)					KT	Plug-in wire assembly with light
DF	24 VDC (4.0W)					KD	Plug-in wire assembly with rectifier & light & ground

Note : AC voltage requires connector with rectifier.

* Click here for other options available.

** 38 series with non plug-in base configuration must use type "B" or "K" electrical connector
Click here for latching solenoid also available.

OPTIONS

Pilot/Base Configuration :

38A- M - X - A -G-XXX-XXX	
A	Individual base - Side port
B	Individual base - Bottom port
M	Pilot exhaust muffled
P	Pilot exhaust piped (# 10-32)
U	Pilot exhaust to main exhaust

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ISO 1

ISO 2

ISO 3

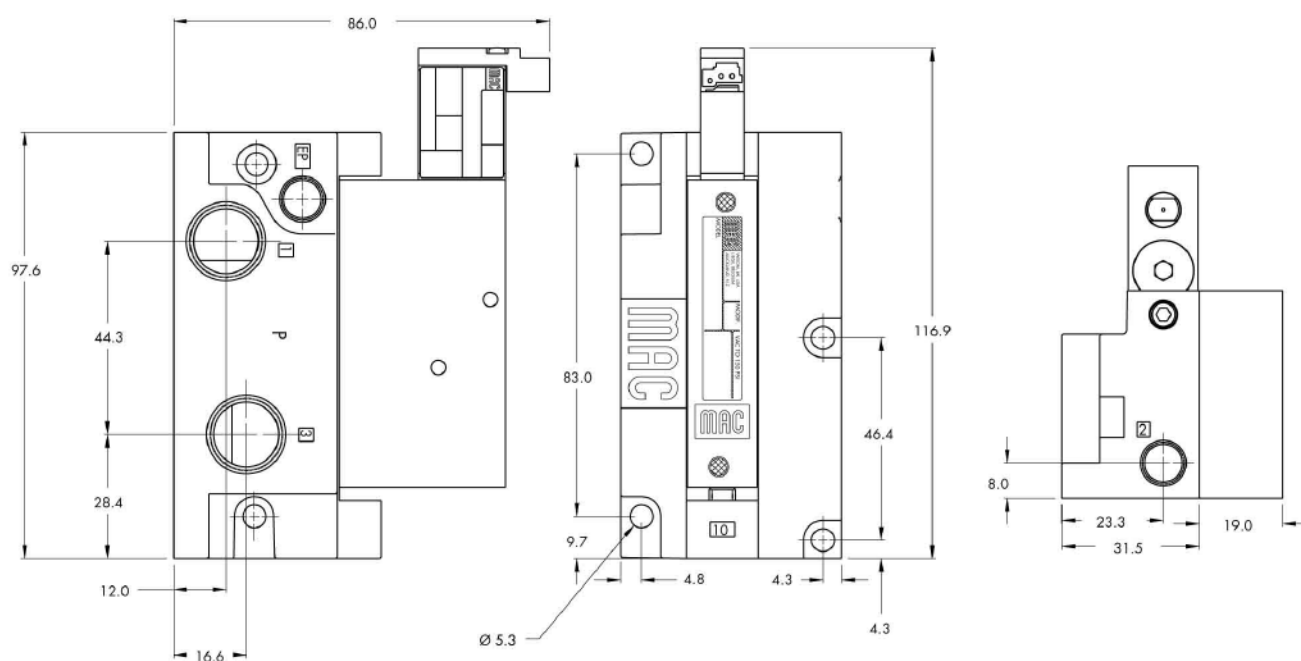
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 20 to 120 PSI External Pilot : Vacuum to 120 PSI
Pilot pressure :	20 to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180 °F and 210 °F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to +50°C)
Flow :	1/8" bottom port: (1.2 C _v) - 1/8" side port: (1.0 C _v) - 1/4" tube receptacle: (0.85 C _v)
Coil :	Class A wire (#22 AWG x 18), continuous duty
Voltage range :	-15% to +10% of nominal voltage
Power :	1.0 to 4.0 W
Response times : (with 4 W coil)	Energize : 6 ms De-energize : 6 ms

Options : • BSPP threads

DIMENSIONS

Dimensions shown are metric (mm)



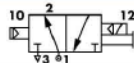
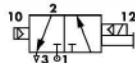
Function	Port size	Flow [Max]	Individual mounting	Series
3/2 NO-NC	1/8" - 1/4" O.D. tube receptacle	1.2 C_v	Sub-base "plug-in"	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1.2 C_v).
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	38A-BMA-000-GxxP-xxx	38A-AMA-000-GxxP-xxx	
	External	38A-BMB-000-GxxP-xxx	38A-AMB-000-GxxP-xxx	38A-GMB-000-GxxP-xxx
1/8" NPTF	Internal	38A-BMA-AAA-GxxP-xxx	38A-AMA-AAA-GxxP-xxx	
	External	38A-BMB-AAB-GxxP-xxx	38A-AMB-AAB-GxxP-xxx	38A-GMB-BAB-GxxP-xxx
1/4" O.D. Tube receptacle	Internal	38A-BMA-EAA-GxxP-xxx	38A-AMA-EAA-GxxP-xxx	
	External	38A-BMB-EAB-GxxP-xxx	38A-AMB-EAB-GxxP-xxx	38A-GMB-EAB-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 VAC (2.5W)	1	Non-locking recessed	DJ	Base plug-in
DA	24 VDC (1.0W)	2	Locking recessed	DT	Base plug-in with light
DC	24 VDC (1.8W)			DD	Base plug-in with rectifier & light & ground
DD	24 VDC (2.5W)				
DF	24 VDC (4.0W)				

Note : AC voltage requires connector with rectifier.

* Click here for other options available.

** 38 series with plug-in base configuration must use type "D" electrical connector.

Click here for latching solenoid also available.

OPTIONS

Pilot/Base Configuration :

38A-**M**x-**A**x-GxxP-xxx

- A** Individual base – Side port
- B** Individual base – Bottom port
- M** Pilot exhaust muffled
- P** Pilot exhaust piped (# 10-32)
- U** Pilot exhaust to main exhaust

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ISO 1

ISO 2

ISO 3

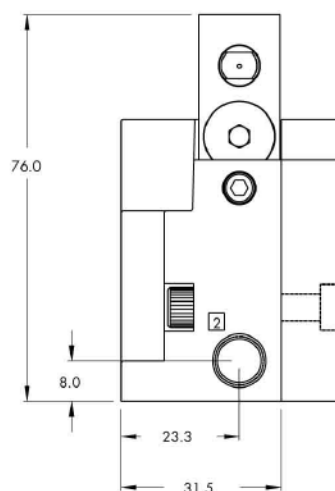
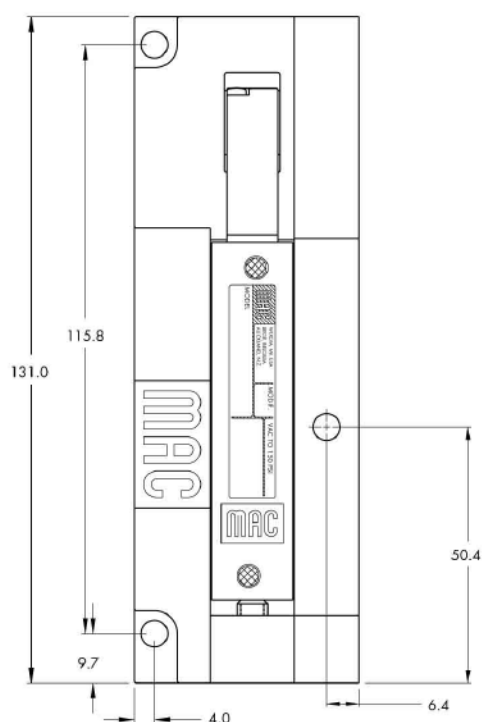
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 20 to 120 PSI External Pilot : Vacuum to 120 PSI
Pilot pressure :	20 to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180 °F and 210 °F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to +50°C)
Flow :	1/8" bottom port: (1.2 C _v) - 1/8" side port: (1.0 C _v) - 1/4" tube receptacle: (0.85 C _v)
Coil :	Class A continuous duty, #22 AWG x 12 base leads
Voltage range :	-15% to +10% of nominal voltage
Power :	1.0 to 4.0 W
Response times : (with 4 W coil)	Energize : 6 ms De-energize : 6 ms

Options : • BSPP threads

DIMENSIONS

Dimensions shown are metric (mm)

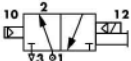


Function	Port size	Flow [Max]	Manifold mounting	Series
3/2 NO-NC	1/8" - 1/4" O.D. tube receptacle	1.2 C_v	Manifold base non "plug-in"	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1.2 C_v).
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	38A-BMA-000-G-XXX-XXX	38A-AMA-000-G-XXX-XXX	
	External	38A-BMB-000-G-XXX-XXX	38A-AMB-000-G-XXX-XXX	38A-GMB-000-G-XXX-XXX
1/8" NPTF	Internal	38A-BMA-AJL-G-XXX-XXX	38A-AMA-AJL-G-XXX-XXX	
	External	38A-BMB-AJM-G-XXX-XXX	38A-AMB-AJM-G-XXX-XXX	38A-GMB-BJM-G-XXX-XXX
1/4" O.D.	Internal	38A-BMA-EJL-G-XXX-XXX	38A-AMA-EJL-G-XXX-XXX	
Tube receptacle	External	38A-BMB-EJM-G-XXX-XXX	38A-AMB-EJM-G-XXX-XXX	38A-GMB-EJM-G-XXX-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 VAC (2.5W)	A 18"	1 Non-locking recessed	BA Flying leads
DA 24 VDC (1.0W)	B 24"	2 Locking recessed	BT Flying leads with light
DC 24 VDC (1.8W)	C 36"		KA Plug-in wire assembly
DD 24 VDC (2.5W)			KT Plug-in wire assembly with light
DF 24 VDC (4.0W)			KD Plug-in wire assembly with rectifier & light & ground

Note : AC voltage requires connector with rectifier.

* Click here for other options available.

** 38 series with non plug-in base configuration must use type "B" or "K" electrical connector
Click here for latching solenoid also available.

OPTIONS

Base only :

38A-000-XXX
(i.e. 38A-000-AJL)

Pilot/Base Configuration :

38A-**M**X-**XJ**X-G-XXX-XXX

- J** Manifold base – Side port
- K** Manifold base – Bottom port
- M** Pilot exhaust muffled
- P** Pilot exhaust piped (# 10-32)
- U** Pilot exhaust to main exhaust

Note : Manifold assemblies require an end plate kit :

M-38003-01-01 (Internal pilot)
M-38003-02-01 (External pilot)

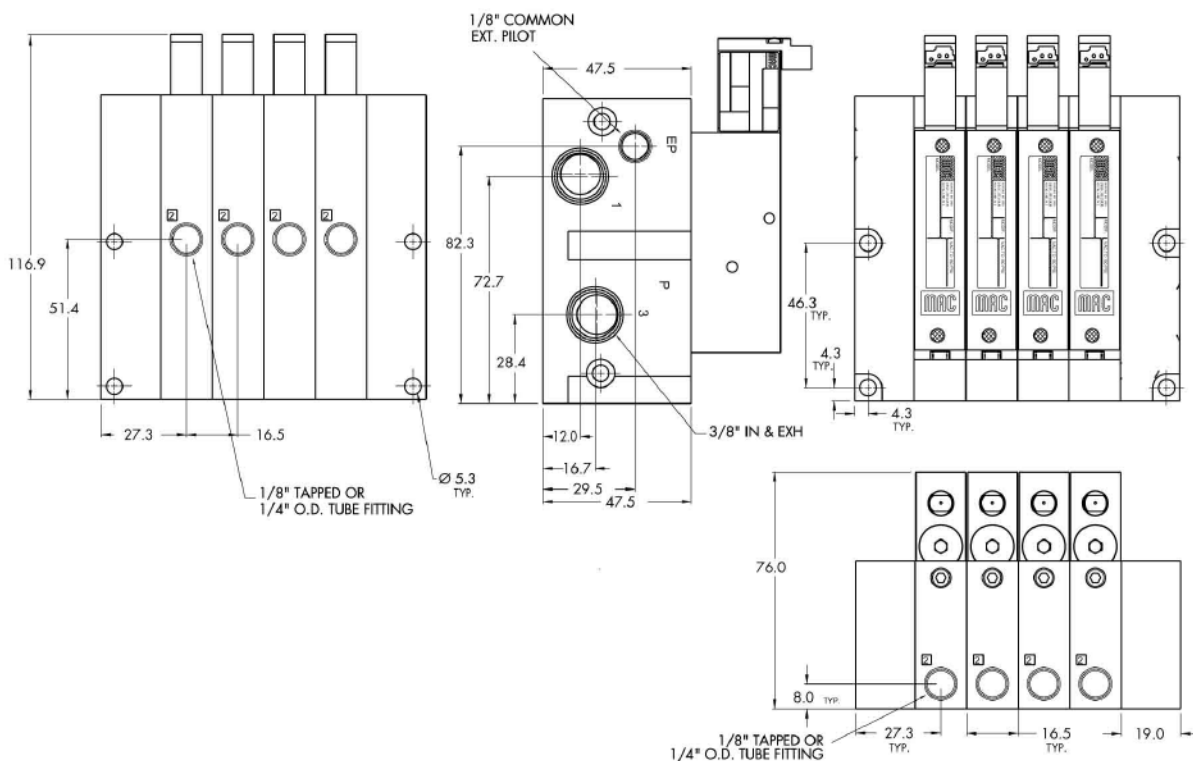
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 20 to 120 PSI External Pilot : Vacuum to 120 PSI
Pilot pressure :	20 to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180 °F and 210 °F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to +50°C)
Flow :	1/8" bottom port: (1.2 C _v) - 1/8" side port: (1.0 C _v) - 1/4" tube receptacle: (0.85 C _v)
Coil :	Class A wire (#22 AWG x 18), continuous duty
Voltage range :	-15% to +10% of nominal voltage
Power :	1.0 to 4.0 W
Response times : (with 4 W coil)	Energize : 6 ms De-energize : 6 ms

Options : • BSPP threads

DIMENSIONS

Dimensions shown are metric (mm)



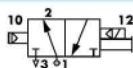
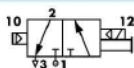
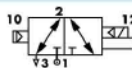
Function	Port size	Flow [Max]	Manifold mounting	Series
3/2 NO-NC	1/8" - 1/4" O.D. tube receptacle	1.2 C_v	Manifold base "plug-in"	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1.2 C_v).
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	38A-BMA-000-GxxP-xxx	38A-AMA-000-GxxP-xxx	
	External	38A-BMB-000-GxxP-xxx	38A-AMB-000-GxxP-xxx	38A-GMB-000-GxxP-xxx
1/8" NPTF	Internal	38A-BMA-AJA-GxxP-xxx	38A-AMA-AJA-GxxP-xxx	
	External	38A-BMB-AJB-GxxP-xxx	38A-AMB-AJB-GxxP-xxx	38A-GMB-BJB-GxxP-xxx
1/4" O.D. Tube receptacle	Internal	38A-BMA-EJA-GxxP-xxx	38A-AMA-EJA-GxxP-xxx	
	External	38A-BMB-EJB-GxxP-xxx	38A-AMB-EJB-GxxP-xxx	38A-GMB-EJB-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 VAC (2.5W)	1 Non-locking recessed	DJ Base plug-in
DA 24 VDC (1.0W)	2 Locking recessed	DT Base plug-in with light
DC 24 VDC (1.8W)		DD Base plug-in with rectifier & light & ground
DD 24 VDC (2.5W)		
DF 24 VDC (4.0W)		

Note : AC voltage requires connector with rectifier.

* Click here for other options available.

** 38 series with plug-in base configuration must use type "D" electrical connector.
Click here for latching solenoid also available.

OPTIONS

Base only :

38A-000-xxx
(i.e. 38A-000-AJA)

Base Configuration :

38A-xxx-xJx-GxxP-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").

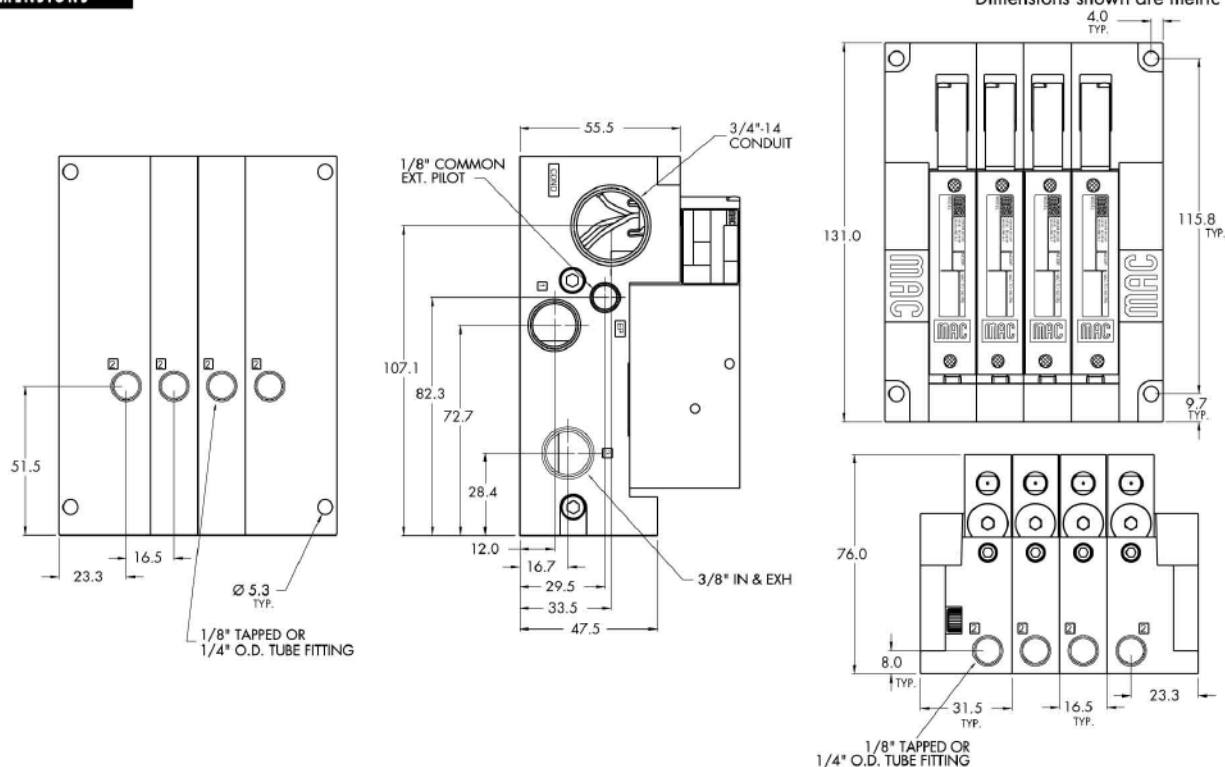
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 20 to 120 PSI External Pilot : Vacuum to 120 PSI
Pilot pressure :	20 to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180 °F and 210 °F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to +50°C)
Flow :	1/8" bottom port: (1.2 C _v) - 1/8" side port: (1.0 C _v) - 1/4" tube receptacle: (0.85 C _v)
Coil :	Class A continuous duty, #22 AWG x 12 base leads
Voltage range :	-15% to +10% of nominal voltage
Power :	1.0 to 4.0 W
Response times : (with 4 W coil)	Energize : 6 ms De-energize : 6 ms

Options : • BSPP threads

DIMENSIONS

Dimensions shown are metric (mm)



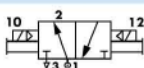
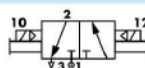
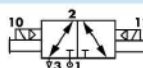
Function	Port size	Flow [Max]	Individual/Manifold mounting	Series
3/2 NO-NC	1/8" - 1/4" O.D. tube receptacle	1.2 C_v	Sub-base/ manifold base non "plug-in" with latching solenoid	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1.2 C_v).
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	38A-BMA-000-Lxxx-xxx	38A-AMA-000-Lxxx-xxx	
	External	38A-BMB-000-Lxxx-xxx	38A-AMB-000-Lxxx-xxx	38A-GMB-000-Lxxx-xxx
1/8" NPTF	Internal	38A-BMA-AAL-Lxxx-xxx	38A-AMA-AAL-Lxxx-xxx	
	External	38A-BMB-AAM-Lxxx-xxx	38A-AMB-AAM-Lxxx-xxx	38A-GMB-AAM-Lxxx-xxx
1/4" O.D. Tube receptacle	Internal	38A-BMA-EAL-Lxxx-xxx	38A-AMA-EAL-Lxxx-xxx	
	External	38A-BMB-EAM-Lxxx-xxx	38A-AMB-EAM-Lxxx-xxx	38A-GMB-EAM-Lxxx-xxx

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

LATCHING SOLENOID OPERATOR ➤

XX Voltage	X Wire length	X Manual operator	XX Electrical connection**
DF 24 VDC (4.0W)	A 18"	0 No operator	BA 2 Wire Flying leads
HA 24 VDC (1.95W)	B 24"		BJ 4 Wire Flying leads
	C 36"		KA 2 Wire Plug-in Assembly
			KE 4 Wire Plug-in Assembly
			LA 3 Wire plug-in assembly (Polarity Switching Cover)

* Click here for other options available.

** Latching 38 series with non plug-in base configuration must use "B", "K" or "L" type electrical connector.

OPTIONS

Pilot/Base Configuration :

38A-**M**x-**A**x-Lxxx-xxx

- A** Individual base – Side port
- B** Individual base – Bottom port
- J** Manifold base – Side port
- K** Manifold base – Bottom port
- M** Pilot exhaust muffled
- P** Pilot exhaust piped (#10-32)
- U** Pilot exhaust to main exhaust

Note : Manifold assemblies require an end plate kit :
M-38003-01-01 (internal pilot)
M-38003-02-01 (external pilot)

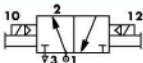
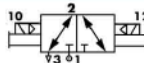
Function	Port size	Flow [Max]	Individual/Manifold mounting	Series
3/2 NO-NC	1/8" - 1/4" O.D. tube receptacle	1.2 C_v	Sub-base/ manifold base "plug-in" with latching solenoid	

OPERATIONAL BENEFITS

1. 3-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1.2 C_v).
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	38A-BMA-000-LxxP-xxx	38A-AMA-000-LxxP-xxx	
	External	38A-BMB-000-LxxP-xxx	38A-AMB-000-LxxP-xxx	38A-GMB-000-LxxP-xxx
1/8" NPTF	Internal	38A-BMA-AAA-LxxP-xxx	38A-AMA-AAA-LxxP-xxx	
	External	38A-BMB-AAB-LxxP-xxx	38A-AMB-AAB-LxxP-xxx	38A-GMB-AAB-LxxP-xxx
1/4" O.D. Tube receptacle	Internal	38A-BMA-EAA-LxxP-xxx	38A-AMA-EAA-LxxP-xxx	
	External	38A-BMB-EAB-LxxP-xxx	38A-AMB-EAB-LxxP-xxx	38A-GMB-EAB-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 VDC (4.0W)	0 No operator	DA Base/Manifold Plug-in
HA 24 VDC (1.95W)		DB Base/Manifold Plug-in w/Ground
		DC Base/Manifold Plug-in w/ Led
		DD Base/Manifold Plug-in w/ Led and Ground
		EA Base/Manifold Plug-in 3 Pin (Polarity Switching Cover)

* Click here for other options available.

** 2 and 4 wire bases must use "D" type electrical connector.
3 wire base must use "EA" type electrical connector.

OPTIONS

Manifold/Base Configuration :

38A-xxx-x**A**x-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

Manifold/Base Int./Ext. Pilot : (Wire options)

38A-xxx-xx**A**x-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)**

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

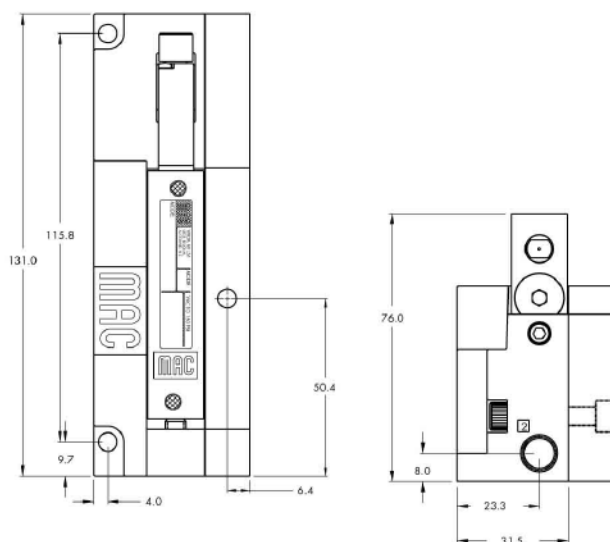
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot : 20 to 120 PSI External Pilot : Vacuum to 120 PSI
Pilot pressure :	20 to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180 °F and 210 °F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to +50°C)
Flow :	1/8" bottom port: (1.2 C _v) - 1/8" side port: (1.0 C _v) - 1/4" tube receptacle: (0.85 C _v)
Coil :	Class A continuous duty, #22 AWG x 12 base leads
Voltage range :	-15% to +10% of nominal voltage
Power :	1.95 to 4.0 W
Response times : (with 4 W coil)	Energize : 6 ms De-energize : 6 ms

Options : • BSPP threads

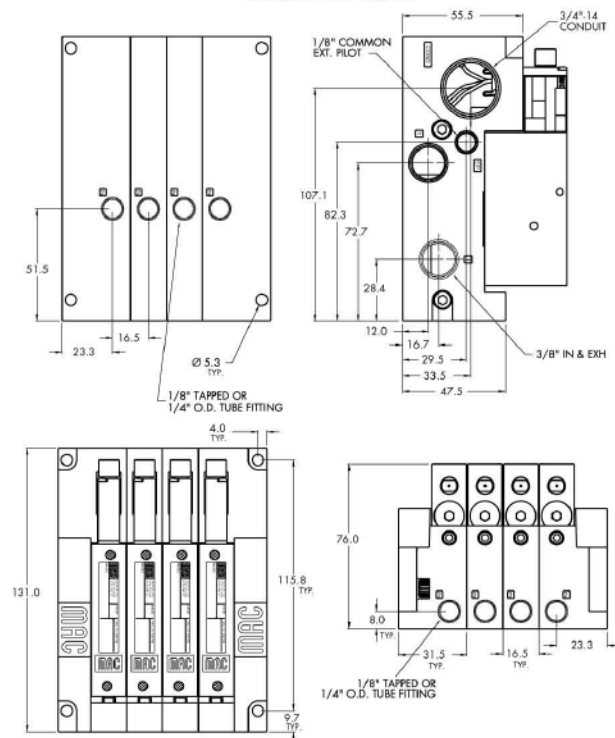
DIMENSIONS

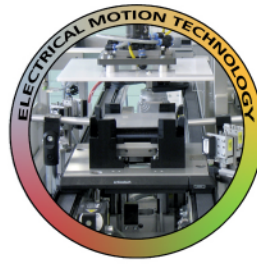
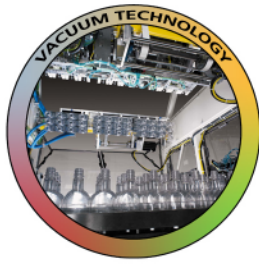
Individual base



Dimensions shown are metric (mm)

Manifold base





We look forward to your application.

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