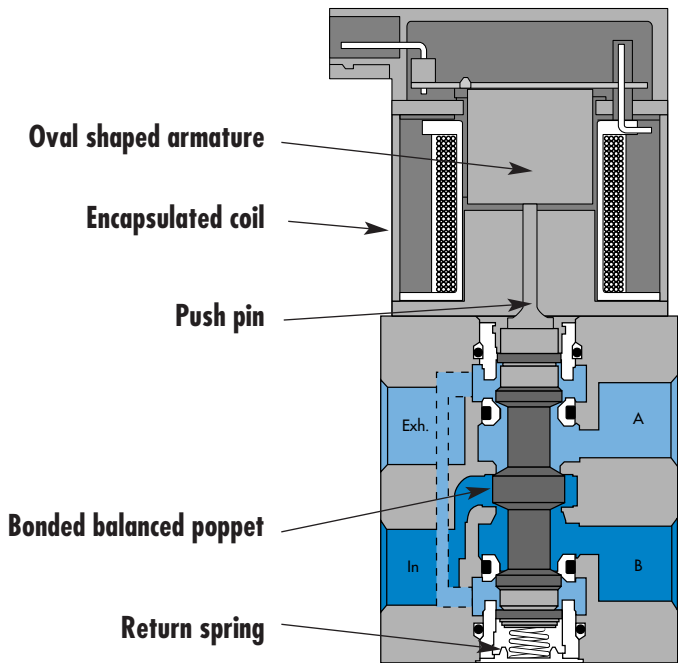


Individual mounting

Inline	
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Manifold mounting

Stacking	Manifold base "plug-in"	Manifold base "plug-in" with pressure regulators	Manifold base "plug-in" with flow controls	Manifold base "plug-in" with PR & FC
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**SERIES FEATURES**

- Patented high force MACSOLENOID® for fastest possible response times.
- Bonded balanced poppet for high flow, precise repeatability, and consistent operation.
- Balanced poppet permits versatility in function — may be used as 3-way or 2-way normally open or normally closed and may be used for vacuum, divertor, or selector applications.
- Extremely high cycle rate capability.
- Use on lube or non-lube service.
- Manual overrides as standard.
- Various solenoid enclosures and plug-in connectors.
- Optional surge suppression available.
- Low wattage DC solenoids — down to 1.3 watts.
- Rectified AC voltage.

Series

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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 mounting	Series
<b>4/2</b>	<b>1/8" - # 10-32</b>	<b>0.3 C<sub>v</sub></b>	Inline	

## OPERATIONAL BENEFITS

1. Balanced poppet, immune to variations of pressure.
2. Patented solenoid develops high shifting forces.
3. Short stroke with high flow.
4. Higher forces result in lower wattages for given flow.
5. Powerful return spring.



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ISO 01

ISO 02

ISO 1

ISO 2

ISO 3

## HOW TO ORDER

Port size	Single Operator		Double Operator	
	Without flow controls	With flow controls	Without flow controls	With flow controls
<b>1/8" NPTF</b>	46A-AA1-J <b>xxx-xxx</b>	46A-AA2-J <b>xxx-xxx</b>	46A-GA1-J <b>xxx-xxx</b>	46A-GA2-J <b>xxx-xxx</b>
<b># 10-32</b>	46A-AB1-J <b>xxx-xxx</b>	46A-AB2-J <b>xxx-xxx</b>	46A-GB1-J <b>xxx-xxx</b>	46A-GB2-J <b>xxx-xxx</b>

## SOLENOID OPERATOR ➤

J **xxx-xxx** (-G) Add "G" for ground

XX Voltage	X Wire length	X Manual operator	XX Electrical connection
<b>Single &amp; double solenoid</b>	<b>** O</b> No leads	<b>1</b> Non-locking recessed	<b>BA</b> Flying leads
<b>AA</b> 120 VAC (5.4W)	<b>A</b> 18"	<b>2</b> Locking recessed	<b>GA</b> MAC JAC solenoid plug-in
<b>DA</b> 24 VDC (5.4W)	<b>B</b> 24"		<b>GG</b> MAC JAC solenoid plug-in with rectifier
<b>DB</b> 12 VDC (5.4W)	<b>C</b> 36"		<b>JB</b> Rectangular connector
<b>Single solenoid only</b>			<b>JD</b> Rectangular connector with light
<b>DC</b> 24 VDC (2.4W)			<b>KA</b> Mini square connector
<b>DD</b> 12 VDC (2.4W)			<b>KD</b> Mini square connector with light

\* Other options available, see page 317.

\*\* Use with rectangular and mini connectors

Note : - AC voltage requires connector with rectifier.

- With the MAC JAC, washdown capability is possible. Consult factory for washdown modification number.

Double solenoid requires minimum 5.4 watts.

## OPTIONS

46A-AA1-J**xxx-xxx**

**G** Use with O ring mount (body option 'D' & 'H')

- A** Single operator - 4 port body with side ports
- C** Single operator - 4 port body with bottom ports (No side ports - M5 or #10-32 ONLY)
- D** Single operator - Bottom O ring mount - All ports (No side ports)
- F** Single operator - Bottom O ring mount - Cylinder ports only - Side inlet & exhaust
- G** Double operator - 4 Port body - With side ports
- H** Double operator - Bottom O ring mount - All ports (No side ports)

Examples : 46A-DG1-Jxxx-xxx (Bottom O ring mount - all ports)  
46A-CB1-Jxxx-xxx (4 port body with bottom ports - no side ports)



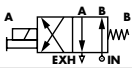
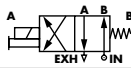
Function	Port size	Flow [Max]	Manifold Mounting	Series
<b>4/2</b>	<b>1/8" - # 10-32</b>	<b>0.3 C<sub>v</sub></b>	Stacking	

## OPERATIONAL BENEFITS

1. Balanced poppet, immune to variations of pressure.
2. Patented solenoid develops high shifting forces.
3. Short stroke with high flow.
4. Higher forces result in lower wattages for given flow.
5. Powerful return spring.



## HOW TO ORDER

Port size	Without flow controls	With flow controls
		
<b>1/8" NPTF</b>	46A-SA1-J <b>XXX-XXX</b>	46A-SA2-J <b>XXX-XXX</b>
<b># 10-32</b>	46A-SB1-J <b>XXX-XXX</b>	46A-SB2-J <b>XXX-XXX</b>

## SOLENOID OPERATOR ➤

J **XXX-XXX\*** (-G) Add "G" for ground

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
AA	120 VAC (5.4W)	A	18"	1	Non-locking recessed	BA	Flying leads
DA	24 VDC (5.4W)	B	24"	2	Locking recessed	GA	MAC JAC solenoid plug-in
DB	12 VDC (5.4W)	C	36"			GB	MAC JAC solenoid plug-in with diode
DC	24 VDC (2.4W)					GG	MAC JAC solenoid plug-in with rectifier
DD	12 VDC (2.4W)						

\* Other options available, see page 317.

Note : - AC voltage requires connector with rectifier.

- With the MAC JAC, washdown capability is possible. Consult factory for washdown modification number.

End plate kit required (port size 1/4") : M-46001-01.

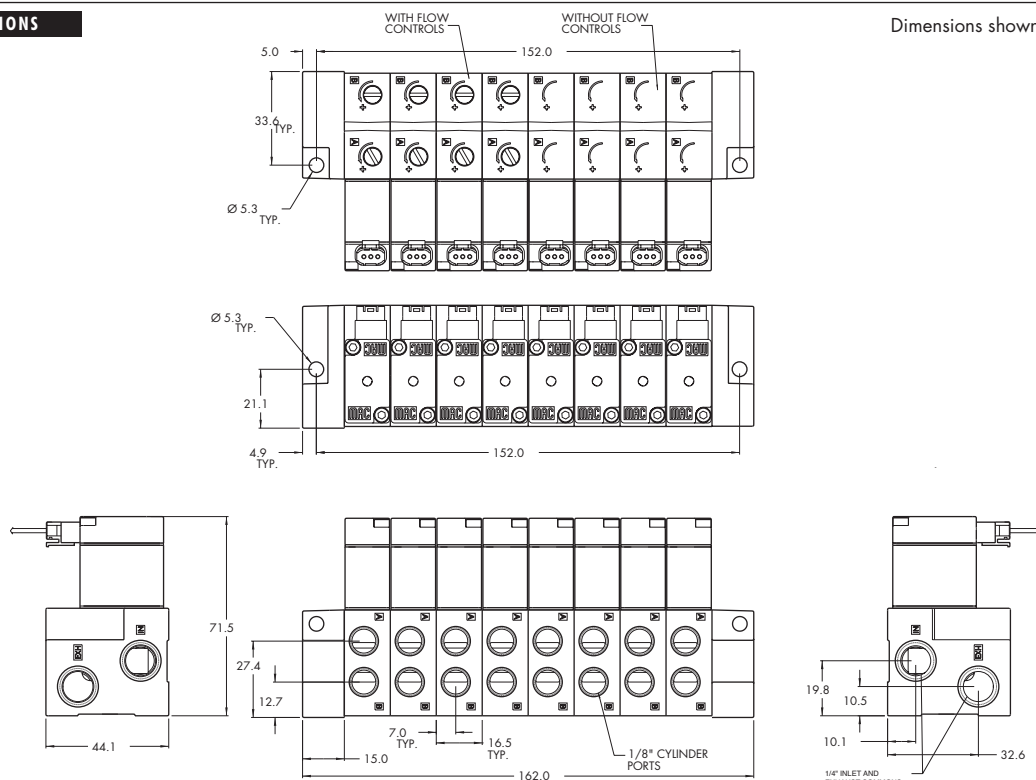
# TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 100 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 :	1.8W : (0.20 C <sub>v</sub> ) – 2.4W : (0.20 C <sub>v</sub> ) – 5.4W : (0.30 C <sub>v</sub> )
Coil :	Class A wire (#22 AWG x 18), continuous duty
Voltage range :	-15% to +10% of nominal voltage
Protection :	Consult factory
Power :	5.4W – 2.4W – 1.8W
Response times : (with 5.4 W coil)	Energize : 7.20 ms De-energize : 4.20ms

- Options :
- BSPP threads
- Spare parts :
- Inlet isolator : 28494 • Exhaust isolator : 28493 • Tie rod (x2) : 79411

# DIMENSIONS

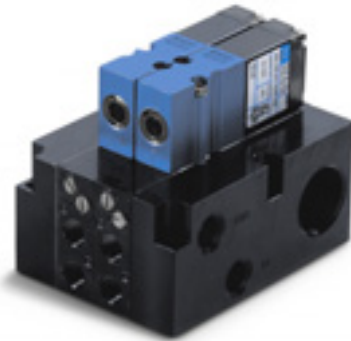
Dimensions shown are metric (mm)



Function	Port size	Flow [Max]	Manifold mounting	Series
<b>4/2</b>	<b>1/8" - 5/32 O.D. Pressed-in tube receptacles</b>	<b>0.3 C<sub>v</sub></b>	Manifold base "plug-in"	

## OPERATIONAL BENEFITS

1. Balanced poppet, immune to variations of pressure.
2. Patented solenoid develops high shifting forces.
3. Short stroke with high flow.
4. Higher forces result in lower wattages for given flow.
5. Powerful return spring.



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ISO 01

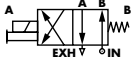
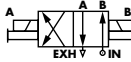
ISO 02

ISO 1

ISO 2

ISO 3

## HOW TO ORDER

Port size	Single solenoid	Double solenoid
		
<b>Valve less base</b>	46A-L00-00-J <b>XX</b> P- <b>XXX</b>	46A-N00-00-J <b>XX</b> P- <b>XXX</b>
<b>1/8" NPTF</b>	46A-LSA-AC-J <b>XX</b> P- <b>XXX</b>	46A-NSA-BL-J <b>XX</b> P- <b>XXX</b>
<b>5/32 O.D. Pressed-in tube receptacles</b>	46A-LSF-AC-J <b>XX</b> P- <b>XXX</b>	46A-NSF-BL-J <b>XX</b> P- <b>XXX</b>

## SOLENOID OPERATOR ➤

J **XX** P-**XXX**\* (-G) Add "G" for ground

<b>XX</b> Voltage	<b>X</b> Manual operator	<b>XX</b> Electrical connection
<b>Single &amp; double solenoid</b>		
<b>AA</b> 120 VAC (5,4W)	<b>1</b> Non-locking	<b>FA</b> Base plug-in
<b>AC</b> 24 VAC (5,4W)	<b>2</b> Locking	<b>FB</b> Base plug-in with diode
<b>DA</b> 24 VDC (5,4W)		<b>FG</b> Base plug-in with rectifier
<b>DB</b> 12 VDC (5,4W)		
<b>Single solenoid only</b>		
<b>DC</b> 24 VDC (2,4W)		
<b>DD</b> 12 VDC (2,4W)		

\* Other options available, see page 317.

Note : AC voltage requires connector with rectifier. Double solenoid requires minimum 5.4 watts.

## OPTIONS

<b>46A-LSB-AC-JXXP-XXX</b>	
<b>C</b> Single solenoid - Side cylinder ports	
<b>L</b> Single & double solenoid - Bottom cylinder ports	
<b>O</b> Base only - no valve	
<b>L</b> Single solenoid - Base mount body	
<b>M</b> Single solenoid - Base mount body with gage port	
<b>N</b> Double solenoid - Base mount body	
<b>P</b> Double solenoid - Base mount body with gage port	

Example : base only : 46A-OSA-AC.

End plate kit required (port size 1/4") : M-46003-01.

#### TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 100 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)
Orifice :	3.3 mm
Flow :	1.8W : (0.20 C <sub>v</sub> ) – 2.4W : (0.20 C <sub>v</sub> ) – 5.4W : (0.30 C <sub>v</sub> )
Coil :	Epoxy encapsulated – Class A wires – 100% ED
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	5.4W – 2.4W – 1.8W
Response times :	Energize : 7.20 ms De-energize : 4.20ms

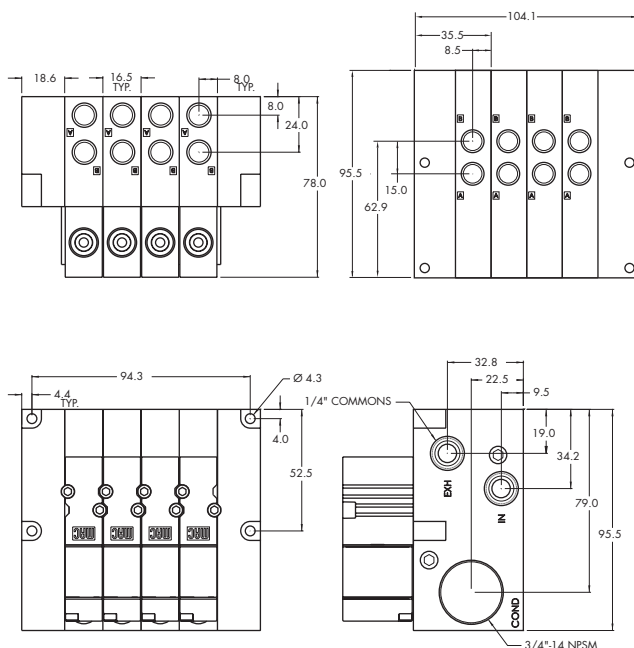
Options :

- BSPP threads

Spare parts :

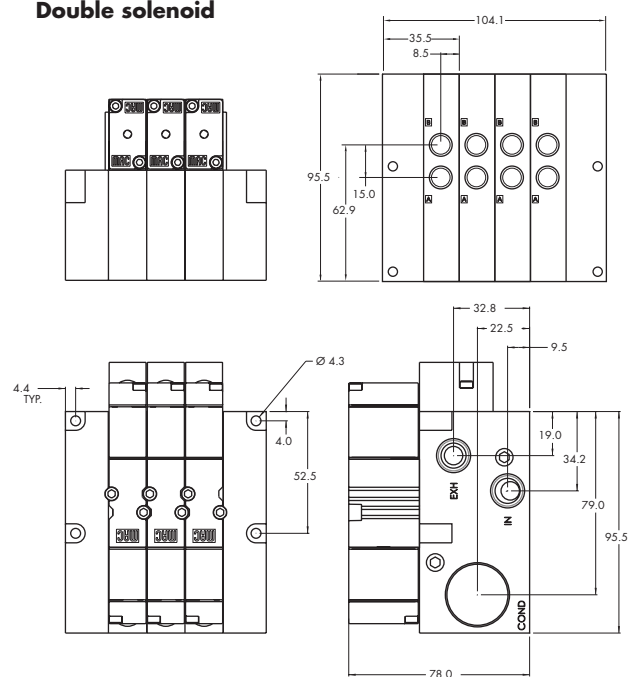
- Inlet isolator : 28501 • Exhaust isolator : 28502 • Valve cover plate : M-46002
- Tie rod (x2) : 79443

#### DIMENSIONS



Dimensions shown are metric (mm)

#### Double solenoid



Function	Port size	Flow [Max]	Manifold mounting	Series
<b>4/2</b>	<b>1/8" - 5/32 O.D. Pressed-in tube receptacles</b>	<b>0.3 C<sub>v</sub></b>	Manifold base "plug-in" with pressure regulators	

## OPERATIONAL BENEFITS

1. Balanced poppet, immune to variations of pressure.
2. Patented solenoid develops high shifting forces.
3. Short stroke with high flow.
4. Higher forces result in lower wattages for given flow.
5. Powerful return spring.



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ISO 01

ISO 02

ISO 1

ISO 2

ISO 3

## HOW TO ORDER

Port size (Bottom ports only)	Model number
<b>Valve less base</b>	46A-L00-00-J <b>XX</b> P- <b>XXX</b>
<b>1/8" NPTF</b>	46A-LSA-AJ-J <b>XX</b> P- <b>XXX</b>
<b>5/32 O.D. Pressed-in tube receptacles</b>	46A-LSF-AJ-J <b>XX</b> P- <b>XXX</b>

## SOLENOID OPERATOR ➤

J **XX** P-**XXX**\* (-G) Add "G" for ground

<b>XX</b> Voltage	<b>X</b> Manual operator	<b>XX</b> Electrical connection
<b>AA</b> 120 VAC (5.4W)	<b>1</b> Non-locking recessed	<b>FA</b> Base plug-in
<b>DA</b> 24 VDC (5.4W)	<b>2</b> Locking recessed	<b>FB</b> Base plug-in with diode
<b>DB</b> 12 VDC (5.4W)		<b>FG</b> Base plug-in with rectifier
<b>DC</b> 24 VDC (2.4W)		

\* Other options available, see page 317.  
Note : AC voltage requires connector with rectifier.

## OPTIONS

46A-LSA-AJ-J**XX**P-**XXX**

- J** Regulator with adjusting knob
- E** Regulator with slotted stem
- G** Regulator with slotted stem with locknut

- O** Base only – no valve
- L** Base mount body
- M** Base mount body with gage port

Example : base only with regulator : 46A-OSA-AJ.  
End plate kit required (port size 1/4") : M-46003-01.



# TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 100 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 :	1.8W : (0.20 C <sub>v</sub> ) – 2.4W : (0.20 C <sub>v</sub> ) – 5.4W : (0.30 C <sub>v</sub> )
Coil :	Class A continuous duty, #22 AWG x 12 base leads
Voltage range :	-15% to +10% of nominal voltage
Protection :	Consult factory
Power :	5.4W – 2.4W – 1.8W
Response times :	Energize : 7.20 ms
(with 5.4 W coil)	De-energize : 4.20ms

Options :

Spare parts :

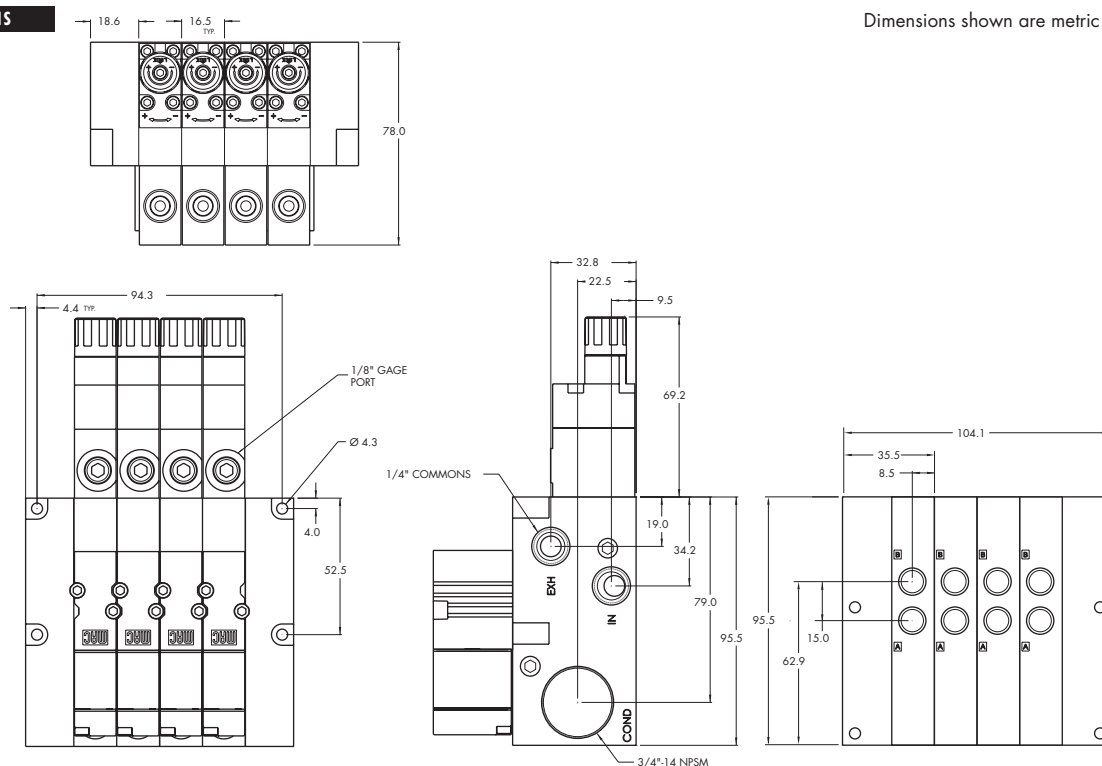
- BSPP threads
- Inlet isolator : 28501 • Exhaust isolator : 28502 • Valve cover plate : M-46002 • Tie rod (x2) : 79443
- Replacement regulators : PR46A-OAAA (slotted stem)  
PR46A-OBAA (adjusting knob)  
PR46A-OCAA (slotted stem with locknut)

Regulating range options :

- PR46A-xxx**A**
  - A** 0 to 120 PSI
  - B** 0 to 80 PSI
  - C** 0 to 30 PSI

# DIMENSIONS

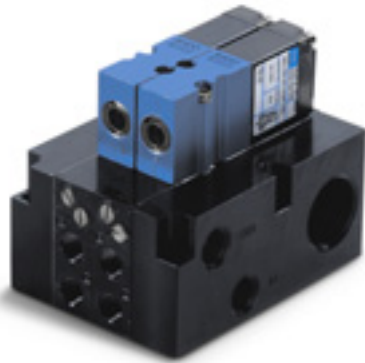
Dimensions shown are metric (mm)



Function	Port size	Flow [Max]	Manifold mounting	Series
4/2	1/8" - 5/32 O.D. Pressed-in tube receptacles	0.3 C <sub>v</sub>	Manifold base "plug-in" with flow controls	

## OPERATIONAL BENEFITS

1. Balanced poppet, immune to variations of pressure.
2. Patented solenoid develops high shifting forces.
3. Short stroke with high flow.
4. Higher forces result in lower wattages for given flow.
5. Powerful return spring.



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ISO 01

ISO 02

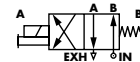
ISO 1

ISO 2

ISO 3

## HOW TO ORDER

Port size	Model number
Valve less base	46A-L00-00-J <b>XX</b> P- <b>XXX</b>
1/8" NPTF	46A-LSA-AD-J <b>XX</b> P- <b>XXX</b>
5/32 O.D. Pressed-in tube receptacles	46A-LSF-AD-J <b>XX</b> P- <b>XXX</b>



## SOLENOID OPERATOR ➤

J **XX** P-**XXX**\* (-G) Add "G" for ground

XX Voltage	X Manual operator	XX Electrical connection
<b>AA</b> 120 VAC (5.4W)	<b>1</b> Non-locking recessed	<b>FA</b> Base plug-in
<b>DA</b> 24 VDC (5.4W)	<b>2</b> Locking recessed	<b>FB</b> Base plug-in with diode
<b>DB</b> 12 VDC (5.4W)		<b>FG</b> Base plug-in with rectifier
<b>DC</b> 24 VDC (2.4W)		

\* Other options available, see page 317.  
Note : AC voltage requires connector with rectifier.

## OPTIONS

46A-LSA-AD-J**XX**P-**XXX**

- D** Side cylinder ports
- M** Bottom cylinder ports
- O** Base only – no valve
- L** Base mount body
- M** Base mount body with gage port

Example : base only with flow controls: 46A-OSA-AD.  
End plate kit required (port size 1/4") : M-46003-01.

#### TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 100 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 :	1.8W : (0.20 C <sub>v</sub> ) – 2.4W : (0.20 C <sub>v</sub> ) – 5.4W : (0.30 C <sub>v</sub> )
Coil :	Class A continuous duty, #22 AWG x 12 base leads
Voltage range :	-15% to +10% of nominal voltage
Protection :	Consult factory
Power :	5.4W – 2.4W – 1.8W
Response times :	Energize : 7.20 ms De-energize : 4.20ms

Options :

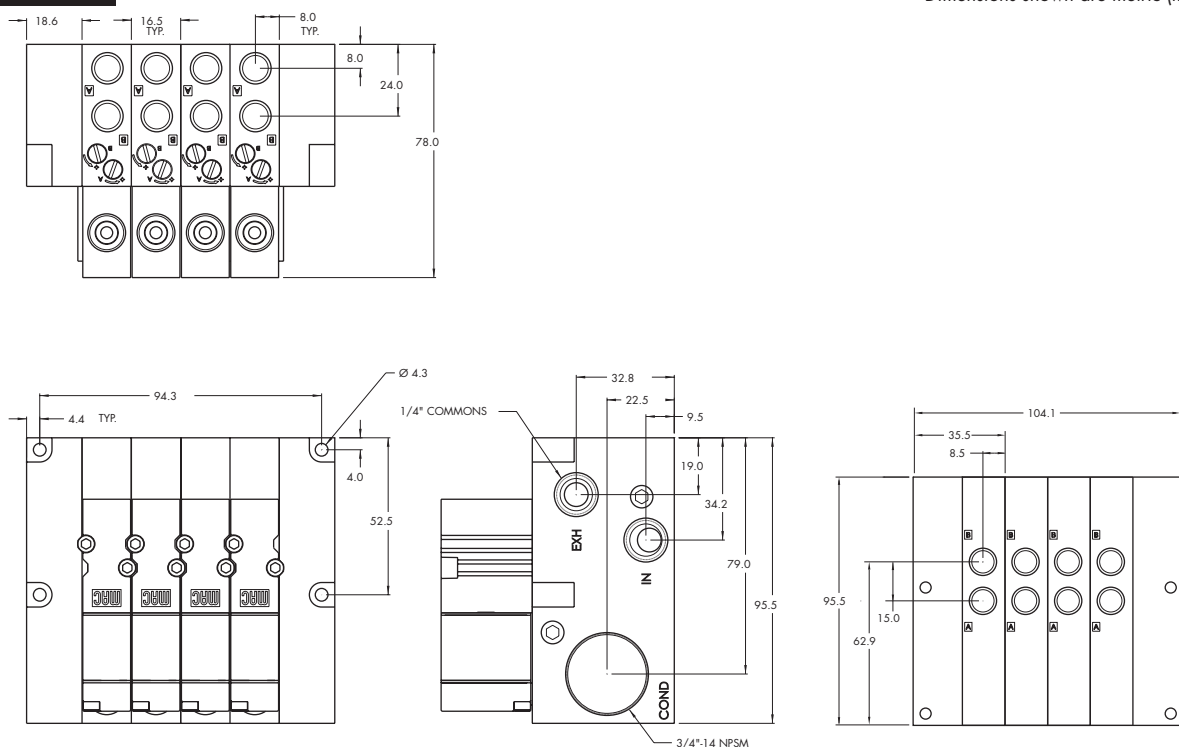
- BSPP threads

Spare parts :

- Inlet isolator : 28501 • Exhaust isolator : 28502 • Valve cover plate : M-46002
- Tie rod (x2) : 79443

#### DIMENSIONS

Dimensions shown are metric (mm)



Function	Port size	Flow [Max]	Manifold mounting	Series
4/2	1/8" - 5/32 O.D. Pressed-in tube receptacles	0.3 C <sub>v</sub>	Manifold base "plug-in" with PR & FC	

## OPERATIONAL BENEFITS

1. Balanced poppet, immune to variations of pressure.
2. Patented solenoid develops high shifting forces.
3. Short stroke with high flow.
4. Higher forces result in lower wattages for given flow.
5. Powerful return spring.



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ISO 01

ISO 02

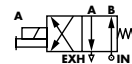
ISO 1

ISO 2

ISO 3

## HOW TO ORDER

Port size (Bottom ports only)	Model number
Valve less base	46A-L00-00-J <b>XX</b> P- <b>XXX</b>
1/8" NPTF	46A-LSA-AK-J <b>XX</b> P- <b>XXX</b>
5/32 O.D. Pressed-in tube receptacles	46A-LSF-AK-J <b>XX</b> P- <b>XXX</b>



## SOLENOID OPERATOR ➤

J **XX** P-**XXX**\* (-G) Add "G" for ground

<b>XX</b> Voltage	<b>X</b> Manual operator	<b>XX</b> Electrical connection
<b>AA</b> 120 VAC (5.4W)	<b>1</b> Non-locking recessed	<b>FA</b> Base plug-in
<b>DA</b> 24 VDC (5.4W)	<b>2</b> Locking recessed	<b>FB</b> Base plug-in with diode
<b>DB</b> 12 VDC (5.4W)		<b>FG</b> Base plug-in with rectifier
<b>DC</b> 24 VDC (2.4W)		

\* Other options available, see page 317.  
Note : AC voltage requires connector with rectifier.

## OPTIONS

46A-LSA-AK-J**XX**P-**XXX**

- K** Regulator with adjusting knob & flow controls
- F** Regulator with slotted stem & flow controls
- H** Regulator with slotted stem with locknut & flow controls

- O** Base only – no valve
- L** Base mount body
- M** Base mount body with gage port

Example : base only with regulator : 46A-OSA-AK.  
End plate kit required (port size 1/4") : M-46003-01.

# TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 100 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 :	1.8W : (0.20 C <sub>v</sub> ) – 2.4W : (0.20 C <sub>v</sub> ) – 5.4W : (0.30 C <sub>v</sub> )
Coil :	Class A continuous duty, #22 AWG x 12 base leads
Voltage range :	-15% to +10% of nominal voltage
Protection :	Consult factory
Power :	5.4W – 2.4W – 1.8W
Response times :	Energize : 7.20 ms De-energize : 4.20ms

Options :

Spare parts :

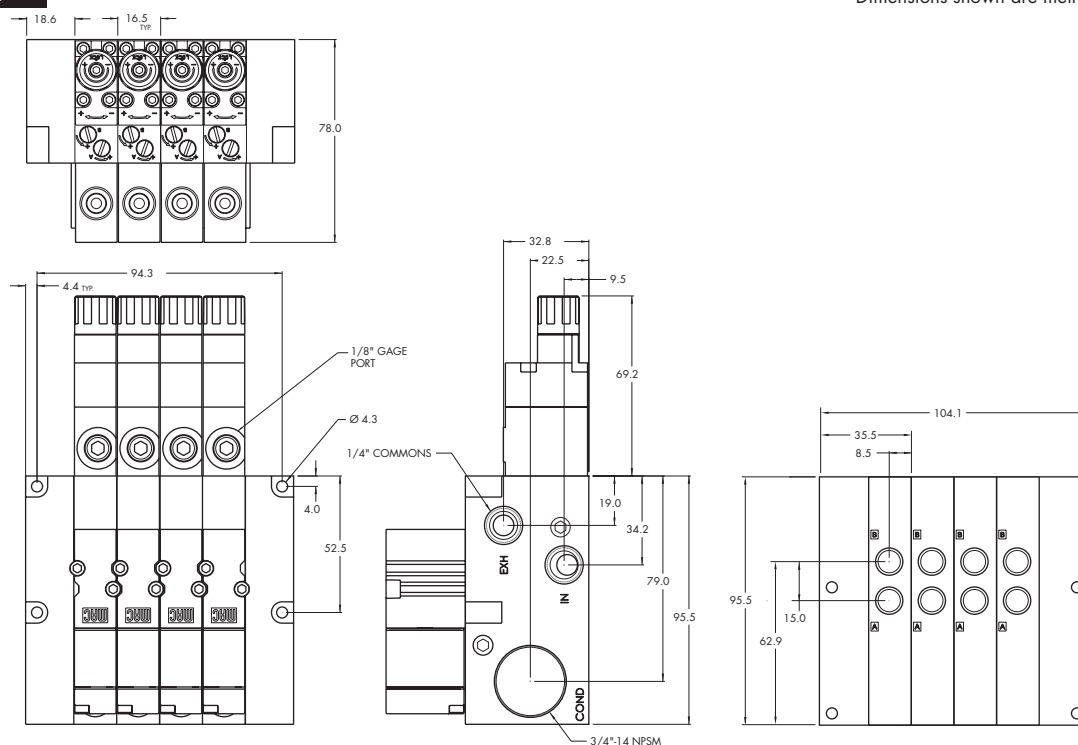
- BSPP threads
- Inlet isolator : 28501 • Exhaust isolator : 28502 • Valve cover plate : M-46002 • Tie rod (x2) : 79443
- Replacement regulators : PR46A-OAAA (slotted stem)  
PR46A-OBAA (adjusting knob)  
PR46A-OCBA (slotted stem with locknut)

Regulating range options :

- PR46A-xxx**A**
  - A** 0 to 120 PSI
  - B** 0 to 80 PSI
  - C** 0 to 30 PSI

# DIMENSIONS

Dimensions shown are metric (mm)





**Codification table for voltages / Manual operators / Electrical connections**

VALVE CODE ➤  $J \frac{XX}{1} \frac{X-X}{2 \ 3} \frac{XX}{4}$

**OPTIONS AVAILABLE FOR**

- Solenoid valves 36, 46, ISO 01 and ISO 02 Series

## 1. VOLTAGE

J-XX X-X XX	VOLTAGE
AA	120VAC (5.4W)
AC	24VAC (5.4W)
DE	24VDC (1.8W)
DF	12VDC (1.8W)
DJ	24VDC (1.3W)
DL	12VDC (1.3W)
DN	12VDC (0.5W)*
DR	12VDC (1.0W)*
DS	24VDC (0.5W)*
DU	24VDC (1.0W)*

\* Not available on 36 series universal valve

## 2. WIRE LENGTH

J-XX X-X XX	WIRE LENGTH
A	18" coil leads
B	24" coil leads
C	36" coil leads
D	48" coil leads
E	72" coil leads
F	96" coil leads
P	Base plug-in
O	No leads (use with J, K & L type connectors)

## 3. MANUAL OPERATOR

J-XX X-X XX	MANUAL OPERATOR
0	No operator
1	Non-locking recessed
2	Locking recessed
3	Non-locking extended
4	Locking extended

## 4. ELECTRICAL CONNECTION

J-XX X-X XX	CONNECTORS FOR NON PLUG-IN VALVES ELECTRICAL CONNECTION
BA	Flying leads
GA	MAC JAC solenoid plug-in
GB	MAC JAC solenoid plug-in with diode
GC	MAC JAC solenoid plug-in with MOV
GD	MAC JAC solenoid plug-in with light
GE	MAC JAC solenoid plug-in with diode and light
GF	MAC JAC solenoid plug-in with MOV 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
*JC	Square 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
*JK	Square Connector with Rectifier

## J-XX X-X XX

*JL	Square Connector with Rectifier with light
*JJ	Square Connector Male only (Plain)
*JB	Rectangular Connector
*JD	Rectangular Connector with light
*JN	Rectangular Connector with diode
*JP	Rectangular Connector with MOV
*JR	Rectangular Connector with diode/light
*JS	Rectangular Connector with MOV/light
*JT	Rectangular Connector with Rectifier
*JU	Rectangular Connector with Rectifier with light
*JM	Rectangular Connector Male only (Plain)

\* Not available on manifold or stacking valves

## CONNECTORS FOR NON PLUG-IN VALVES

J-XX X-X XX	MINI SQUARE PLUG-IN CONNECTORS 9.4 MM SPACING BETWEEN PINS
KA	Mini plug-in
KB	Mini plug-in with diode
KC	Mini plug-in with MOV
KD	Mini plug-in with light
KE	Mini plug-in with diode and light
KF	Mini plug-in with MOV and light
KG	Mini plug-in with rectifier
KH	Mini plug-in with rectifier and light
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

## CONNECTORS FOR NON PLUG-IN VALVES

J-XX X-X XX	MINI SQUARE PLUG-IN CONNECTORS 8.0 MM SPACING BETWEEN PINS ISO SPECIFICATION 15217
LA	Mini plug-in
LB	Mini plug-in with diode
LC	Mini plug-in with MOV
LD	Mini plug-in with light
LE	Mini plug-in with diode and light
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

## J-XX X-X XX

J-XX X-X XX	CONNECTORS FOR PLUG-IN VALVES
FA	Base plug-in
FB	Base plug-in with diode
FC	Base plug-in with MOV
FD	Base plug-in with light
FE	Base plug-in with diode and light
FF	Base plug-in with MOV and light
FG	Base plug-in with rectifier
FH	Base plug-in with rectifier and light