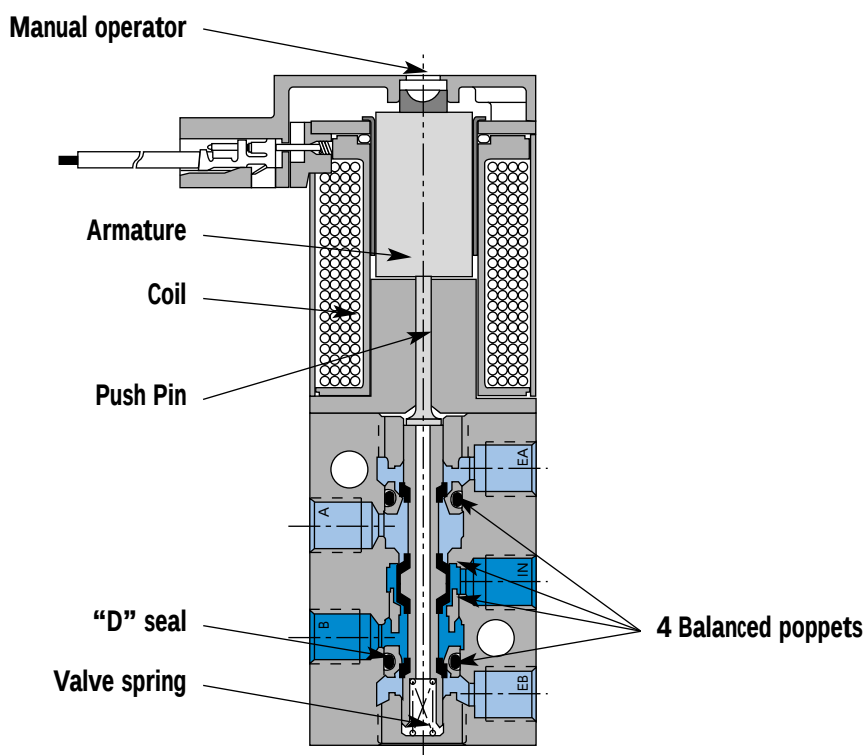


Individual mounting

Series

Inline



SERIES FEATURES

- High force MACSOLENOID®.
- 10mm direct operated.
- # 10-32 or M5 ports.
- Rated for lubricated or non-lubricated service.
- Cylinder ports in valve or in circuit bar.

3 4

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9 3

ISO 1

ISO 2

ISO 3

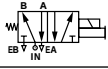
Function	Port size	Flow (Max)	Individual Mounting	Series
5 / 2	M 5	100 NI/min	Inline	

OPERATIONAL BENEFITS

1. 10 mm valve, direct solenoid operated.
2. Balanced poppet, immune to variations of pressure.
3. Short stroke with high flow.
4. The patented solenoid develops high shifting forces.
5. Powerful return spring.
6. Flow is specifically adjusted on each valve.
7. Manual operator standard on all valves.



HOW TO ORDER

Port size	Universal valve	For use with external flow controls
		
M 5	44B-ABA-G XXX-XXX	44B-BBA-G XXX-XXX

SOLENOID OPERATOR ►

G **XXX-XXX***

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
DA	24 V=/1W	A	45 cm	1	Non-locking	KA	Mini connector
DC	24 V=/1,8W	B	60 cm	2	Locking	KT	Mini connector with light
DD	12 V=/2,5W					BA	Flying leads
DF	24 V=/4,0W					BT	Flying leads with light

* Click here for other options available.

LATCHING SOLENOID ►

L **XXX-XXX***

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
DF	24 V=/4,0W	A	45 cm	0	No operator	BA	2 Wire flying leads
HA	24 V=/1,95W	B	60 cm			BJ	4 Wire flying leads
		C	90 cm			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.

Consult "Precautions" before use, installation or service of MAC Valves..

Individual mounting

Inline

Series

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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3 4

3 6

3 2

3 7

3 8

5 2

6 7

4 4

4 6

4 2

4 7

4 8

4 0 0

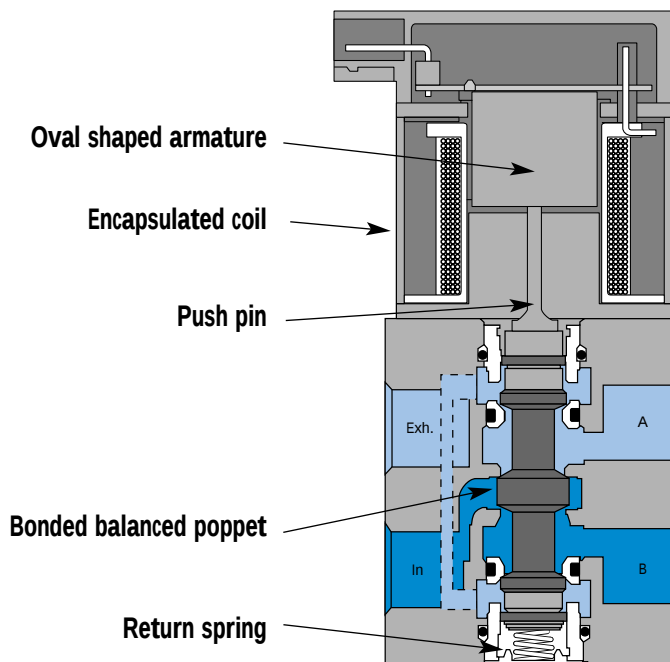
9 2

9 3

ISO 1

ISO 2

ISO 3



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 1.8 watts.
- Rectified AC voltage.

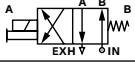
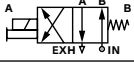
Function	Port size	Flow (Max)	Individual mounting	Series
4 / 2	G 1 / 8 " - M5	300 NI / min	Inline	

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.



HOW TO ORDER

Port size	Without flow controls	With flow controls
		
G 1 / 8 "	46A-AC1-J xxx-xxx	46A-AC2-J xxx-xxx
M 5	46A-AD1-J xxx-xxx	46A-AD2-J xxx-xxx

SOLENOID OPERATOR ➤

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

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
AA	120 V~/5,4W	A	45 cm	1	Non-locking	BA	Flying leads
DA	24 V~/5,4W	B	60 cm	2	Locking	GA	MAC JAC solenoid plug-in
DB	12 V~/5,4W	C	90 cm			GB	MAC JAC solenoid plug-in with diode
DC	24 V~/2,4W					GD	MAC JAC solenoid plug-in with light
DD	12 V~/2,4W					GG	MAC JAC solenoid plug-in with rectifier

* Click here for other options available.

Note : - AC voltage requires connector with rectifier.

- The MAC JAC connector is similar to the connector used for valves that incorporate the "G" type solenoid. With the MAC JAC, washdown capability is possible. Consult factory for washdown modification number.

OPTIONS

46A-AC1-Jxxx-xxx

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

- A 4 port body with side ports
- C 4 port body with bottom ports (no side ports) – M5 ONLY
- D Bottom O ring mount – All ports (no side ports)
- F Bottom O ring mount – Cylinder ports only – Side inlet & exhaust

Examples : 46A-DG1-Jxxx-xxx (Bottom O ring mount – all ports)
46A-CD1-Jxxx-xxx (4 port body with bottom ports – no side ports)

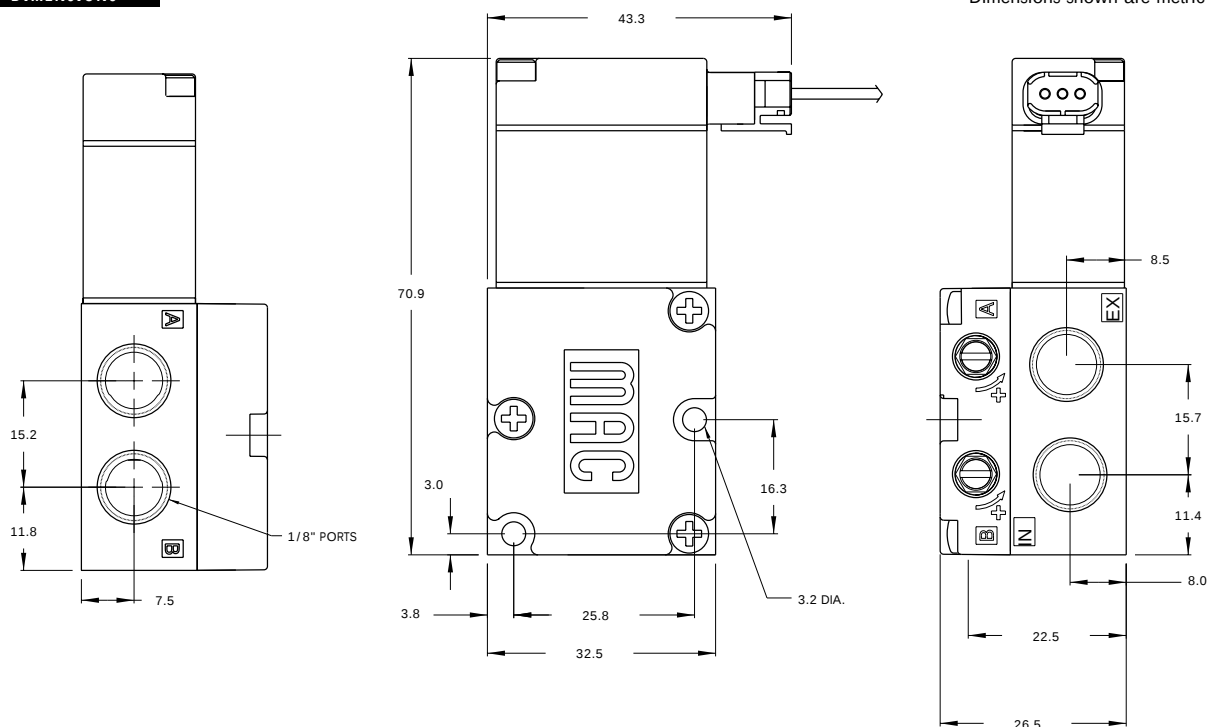
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum 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 :	3,3 mm
Flow (at 6 bar, ΔP=1bar) :	1,8W : 200 NI/min (Cv 0,20) – 2,4W : 200 NI/min (Cv 0,20) – 5,4W : 300 NI/min (Cv 0,30)
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 – 1,0W
Response times :	Energize : 7,20 ms De-energize : 4,20ms

Options : • NPTF threads

DIMENSIONS

Dimensions shown are metric (mm)



Consult "Precautions" before use, installation or service of MAC Valves..



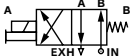
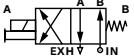
Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow (Max)	Manifold Mounting	Series
4 / 2	G 1 / 8 " - M 5	300 NI / min	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
		
G 1 / 8 "	46A-SC1-J XXX-XXX	46A-SC2-J XXX-XXX
M 5	46A-SD1-J XXX-XXX	46A-SD2-J XXX-XXX

SOLENOID OPERATOR ➤

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

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
AA	120 V~/5,4W	A	45 cm	1	Non-locking	BA	Flying leads
DA	24 V~/5,4W	B	60 cm	2	Locking	GA	MAC JAC solenoid plug-in
DB	12 V~/5,4W	C	90 cm			GB	MAC JAC solenoid plug-in with diode
DC	24 V~/2,4W					GD	MAC JAC solenoid plug-in with light
DD	12 V~/2,4W					GG	MAC JAC solenoid plug-in with rectifier

* Click here for other options available.

Note : - AC voltage requires connector with rectifier.

- The MAC JAC connector is similar to the connector used for valves that incorporate the "G" type solenoid. With the MAC JAC, washdown capability is possible. Consult factory for washdown modification number.

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

TECHNICAL DATA

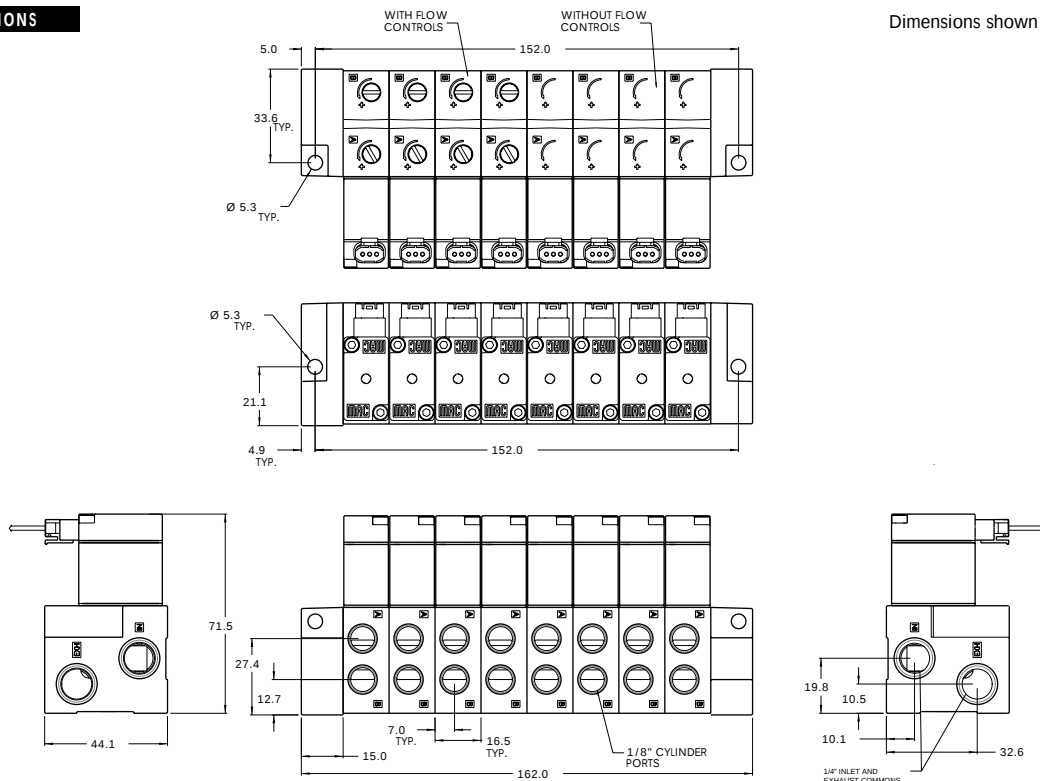
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	3,3 mm
Flow (at 6 bar, ΔP=1bar) :	1,8W : 200 NI/min (Cv 0,20) – 2,4W : 200 NI/min (Cv 0,20) – 5,4W : 300 NI/min (Cv 0,30)
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 – 1,0W
Response times :	Energize : 7,20 ms De-energize : 4,20ms

Options : • NPTF threads

Spare parts : • Inlet isolator : 28494 • Exhaust isolator : 28493 • Tie rod (x2) : 79411

DIMENSIONS

Dimensions shown are metric (mm)



Consult "Precautions" before use, installation or service of MAC Valves..



Direct solenoid and solenoid pilot operated valves

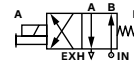
Function	Port size	Flow (Max)	Manifold mounting	Series
4 / 2	G 1 / 8 "	300 NI / min	Manifold base "plug-in"	

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.

HOW TO ORDER

Port size	Model number
Valve less base	46A-L00-00-J xxP-xxx
G 1 / 8 "	46A-LSB-AC-J xxP-xxx



SOLENOID OPERATOR ➤

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

xx Voltage	x Manual operator	xx Electrical connection
AA 120V~/5,4W	1 Non-locking	FA Base plug-in
DA 24V~/5,4W	2 Locking	FB Base plug-in with diode
DB 12V~/5,4W		FG Base plug-in with rectifier
DC 24V~/2,4W		

* Click here for other options available.
Note : AC voltage requires connector with rectifier.

OPTIONS

46A-LSB-AC-J xxP-xxx	C Side cylinder ports L Bottom cylinder ports 0 Base only – no valve L Base mount body M Base mount body with gage port
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Example : base only : 46A-0SB-AC.
End plate quit required (port size G 1 / 4 ") : M-46003-01P.

TECHNICAL DATA

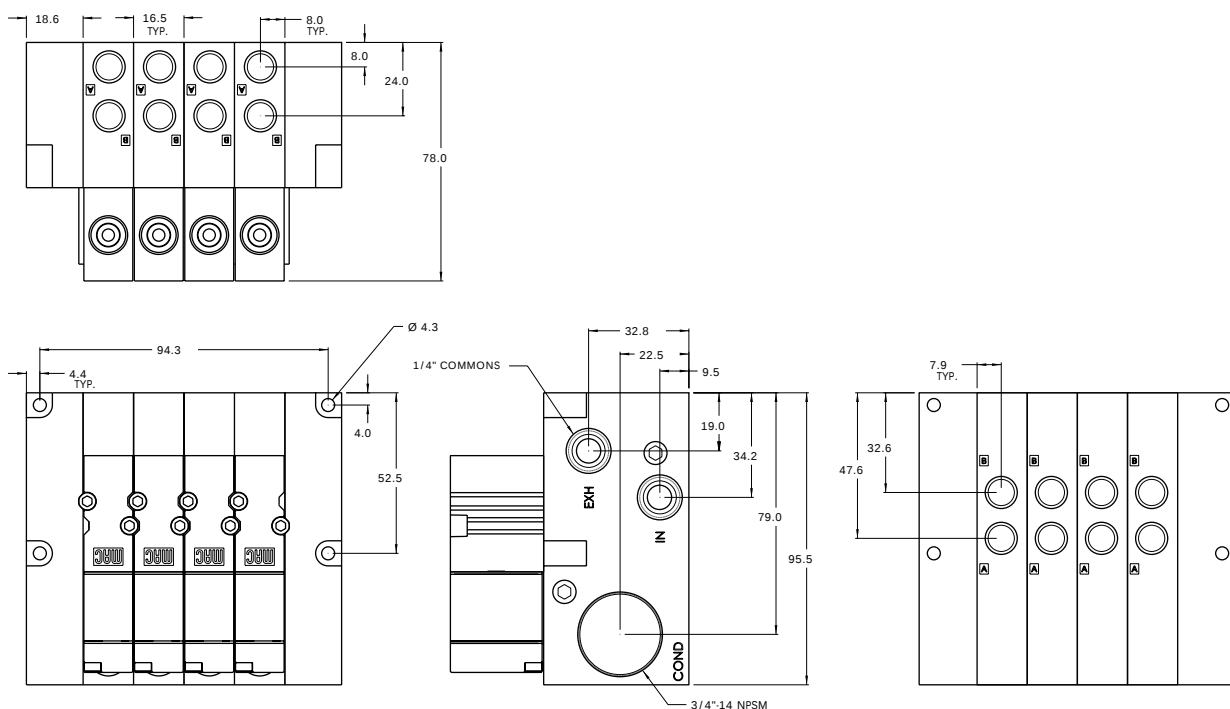
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	3,3 mm
Flow (at 6 bar, ΔP=1bar) :	1,8W : 200 NI/min (Cv 0,20) – 2,4W : 200 NI/min (Cv 0,20) – 5,4W : 300 NI/min (Cv 0,30)
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 – 1,0W
Response times :	Energize : 7,20 ms De-energize : 4,20ms

Options : • NPTF threads

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

DIMENSIONS

Dimensions shown are metric (mm)





Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow (Max)	Manifold mounting	Series
4 / 2	G 1 / 8 "	300 NI / min	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.

3 4

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3 7

3 8

5 2

6 7

4 4

4 6

HOW TO ORDER

Port size	Model number
Valve less base	46A-L00-00-J XX P- XXX
G 1 / 8 "	46A-LSB-AJ-J XX P- XXX



4 2

4 7

SOLENOID OPERATOR ►

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

XX Voltage	X Manual operator	XX Electrical connection
AA 120V~/5,4W	1 Non-locking	FA Base plug-in
DA 24V~/5,4W	2 Locking	FB Base plug-in with diode
DB 12V~/5,4W		FG Base plug-in with rectifier
DC 24V~/2,4W		

4 8

4 0 0

9 2

* Click here for other options available.
Note : AC voltage requires connector with rectifier.

9 3

OPTIONS

46A-LSB-AJ-J XX P- XXX	J Regulator with adjusting knob
	E Regulator with slotted stem
	G Regulator with slotted stem with locknut
	0 Base only – no valve
	L Base mount body
	M Base mount body with gage port

Example : base only with regulator : 46A-0SB-AJ.
End plate quit required (port size G 1 / 4 ") : M-46003-01P.

ISO 1

ISO 2

ISO 3

TECHNICAL DATA

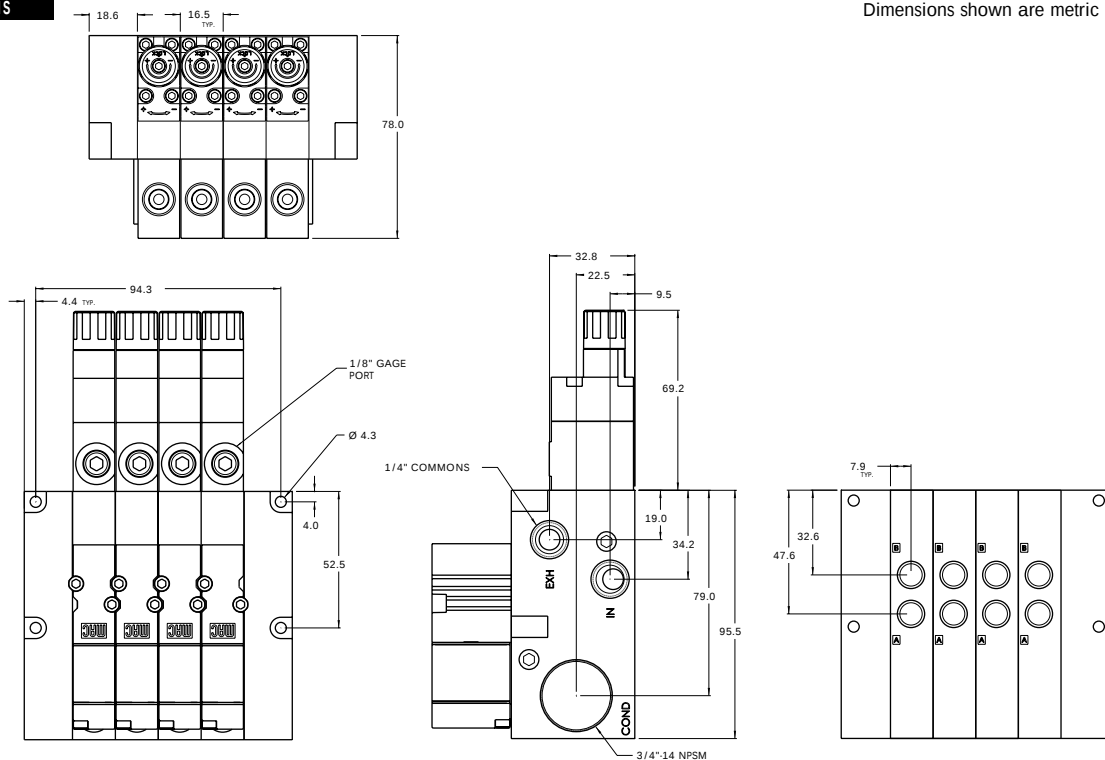
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	3,3 mm
Flow (at 6 bar, ΔP=1bar) :	1,8W : 200 NI/min (Cv 0,20) – 2,4W : 200 NI/min (Cv 0,20) – 5,4W : 300 NI/min (Cv 0,30)
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 – 1,0W
Response times :	Energize : 7,20 ms De-energize : 4,20ms

- Options :
- NPTF threads
- Spare parts :
- Inlet isolator : 28501 • Exhaust isolator : 28502 • Valve cover plate : M-46002 • Tie rod (x2) : 79443
 - Replacement regulators : PR46A-0AAA (slotted stem)
PR46A-0BAA (adjusting knob)
PR46A-0CAA (slotted stem with locknut)

- Regulating range options :
- PR46A-xxx**A**
 - A** 0 to 8 bar
 - B** 0 to 5,3 bar
 - C** 0 to 2 bar

DIMENSIONS

Dimensions shown are metric (mm)



Consult "Precautions" before use, installation or service of MAC Valves..



Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow (Max)	Manifold mounting	Series
4 / 2	G 1 / 8 "	300 NI / min	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.

HOW TO ORDER

Port size	Model number
Valve less base	46A-L00-00-J xxP-xxx
G 1 / 8 "	46A-LSB-AD-J xxP-xxx



SOLENOID OPERATOR ➤

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

xx Voltage	x Manual operator	xx Electrical connection
AA 120V~/5,4W	1 Non-locking	FA Base plug-in
DA 24V~/5,4W	2 Locking	FB Base plug-in with diode
DB 12V~/5,4W		FG Base plug-in with rectifier
DC 24V~/2,4W		

* Click here for other options available.
Note : AC voltage requires connector with rectifier.

OPTIONS

46A-LSB-AJ-J**xxP-xxx**

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

Example : base only with regulator: 46A-0SB-AD.
End plate quit required (port size G 1 / 4 ") : M-46003-01P.

TECHNICAL DATA

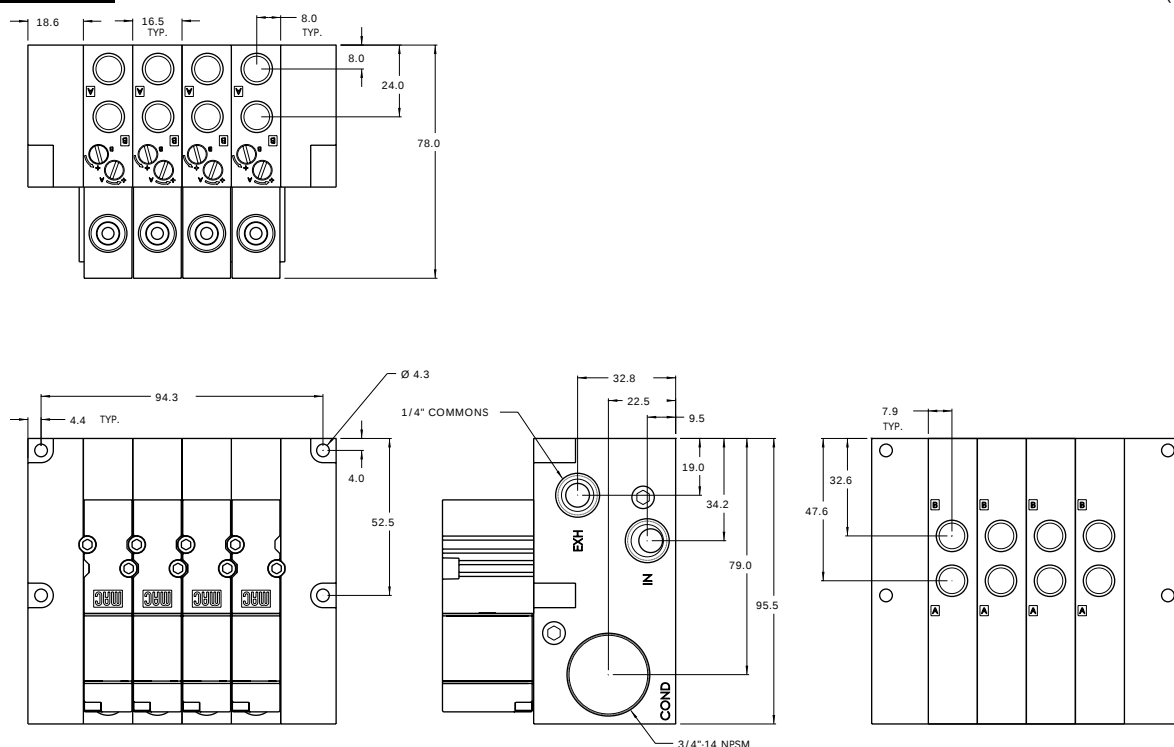
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	3,3 mm
Flow (at 6 bar, ΔP=1bar) :	1,8W : 200 NI/min (Cv 0,20) – 2,4W : 200 NI/min (Cv 0,20) – 5,4W : 300 NI/min (Cv 0,30)
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 – 1,0W
Response times :	Energize : 7,20 ms De-energize : 4,20ms

Options : • NPTF threads

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

DIMENSIONS

Dimensions shown are metric (mm)



Consult "Precautions" before use, installation or service of MAC Valves..



Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow (Max)	Manifold mounting	Series
4 / 2	G 1 / 8 "	300 NI / min	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.

3 4

3 6

3 2

3 7

3 8

5 2

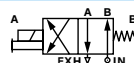
6 7

4 4

4 6

HOW TO ORDER

Port size	Model number
Valve less base	46A-L00-00-J xxP-xxx
G 1 / 8 "	46A-LSB-AK-J xxP-xxx



4 2

4 7

SOLENOID OPERATOR ➤

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

xx Voltage	x Manual operator	xx Electrical connection
AA 120V~/5,4W	1 Non-locking	FA Base plug-in
DA 24V~/5,4W	2 Locking	FB Base plug-in with diode
DB 12V~/5,4W		FG Base plug-in with rectifier
DC 24V~/2,4W		

4 8

4 0 0

9 2

* Click here for other options available.
Note : AC voltage requires connector with rectifier.

9 3

OPTIONS

46A-LSB-AJ-J**xxP-xxx**

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

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

Example : base only with regulator : 46A-0SB-AK.
End plate quit required (port size G 1 / 4 ") : M-46003-01P.

ISO 1

ISO 2

ISO 3

TECHNICAL DATA

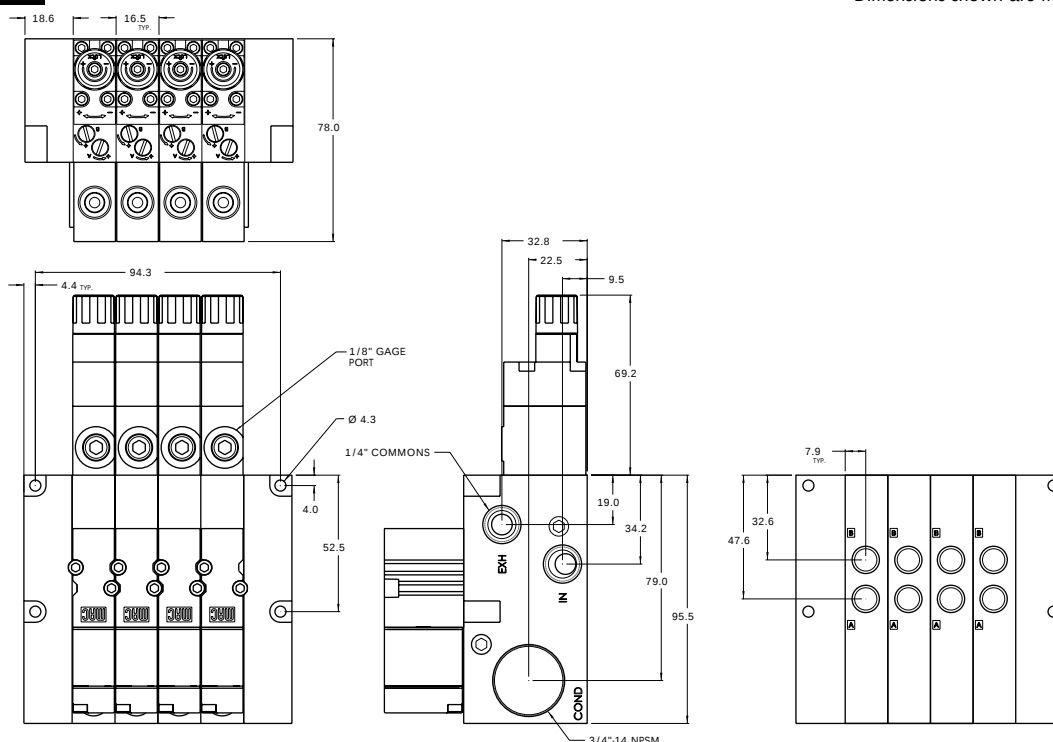
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	3,3 mm
Flow (at 6 bar, ΔP=1bar) :	1,8W : 200 NI/min (Cv 0,20) – 2,4W : 200 NI/min (Cv 0,20) – 5,4W : 300 NI/min (Cv 0,30)
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 – 1,0W
Response times :	Energize : 7,20 ms De-energize : 4,20ms

- Options :
- NPTF threads
- Spare parts :
- Inlet isolator : 28501 • Exhaust isolator : 28502 • Valve cover plate : M-46002 • Tie rod (x2) : 79443
 - Replacement regulators : PR46A-0AAA (slotted stem)
PR46A-0BAA (adjusting knob)
PR46A-0CAA (slotted stem with locknut)

- Regulating range options :
- PR46A-xxx**A**
 - A** 0 to 8 bar
 - B** 0 to 5,3 bar
 - C** 0 to 2 bar

DIMENSIONS

Dimensions shown are metric (mm)



Consult "Precautions" before use, installation or service of MAC Valves..

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

3 4

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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3 6

3 2

3 7

3 8

5 2

6 7

4 4

4 6

4 2

4 7

4 8

4 0 0

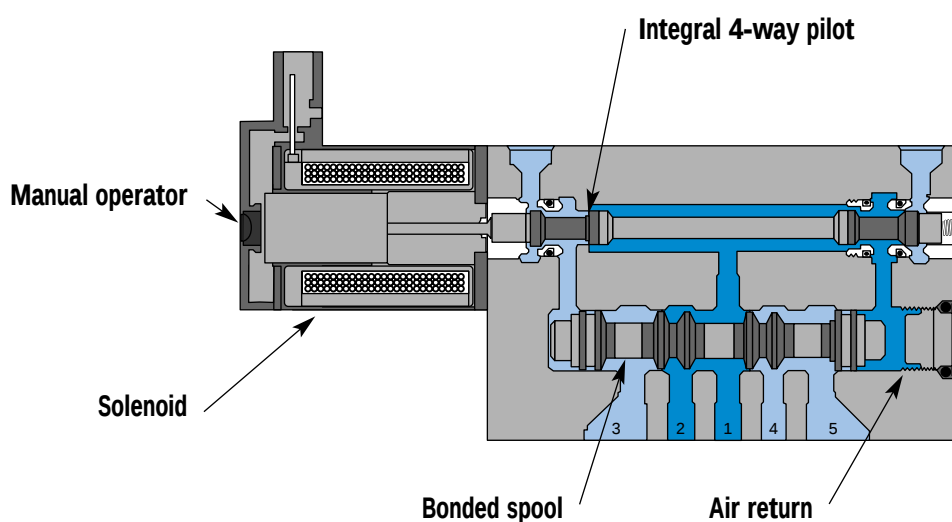
9 2

9 3

ISO 1

ISO 2

ISO 3



SERIES FEATURES

- High force MACSOLENOID®.
- Integral 4-way pilot design.
- Single or dual pressure.
- Internal or external pilot.
- Single or double solenoid.
- 2 or 3 position.
- Rectified AC voltage.
- Latching solenoid technology.

Function	Port size	Flow (Max)	Individual mounting	Series
5 / 2, 5 / 3	M5, M7	400 NI/min	Sub-base non "plug-in"	

OPERATIONAL BENEFITS

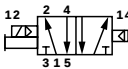
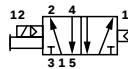
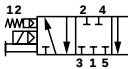
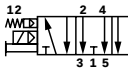
1. 4-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 10,5 mm centres).
3. High flow (up to 400 NI/min).
4. Fast repeatable response times.
5. Maximum shifting forces in both directions.
6. Long life.



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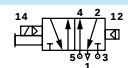
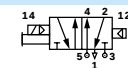
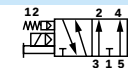
HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot air	5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Closed centre	5 / 3 Open centre
					
Valve less base	Internal	42A-AMA-000-Gxxx-xxx	42A-BMA-000-Gxxx-xxx	42A-EMA-000-Gxxx-xxx	42A-FMA-000-Gxxx-xxx
	External	42A-AMD-000-Gxxx-xxx	42A-BMD-000-Gxxx-xxx	42A-EMD-000-Gxxx-xxx	42A-FMD-000-Gxxx-xxx
M5	Internal	42A-AMA-GAL-Gxxx-xxx	42A-BMA-GAL-Gxxx-xxx	42A-EMA-GAL-Gxxx-xxx	42A-FMA-GAL-Gxxx-xxx
	External	42A-AMD-GAM-Gxxx-xxx	42A-BMD-GAM-Gxxx-xxx	42A-EMD-GAM-Gxxx-xxx	42A-FMD-GAM-Gxxx-xxx
M7	Internal	42A-AMA-LAL-Gxxx-xxx	42A-BMA-LAL-Gxxx-xxx	42A-EMA-LAL-Gxxx-xxx	42A-FMA-LAL-Gxxx-xxx
	External	42A-AMD-LAM-Gxxx-xxx	42A-BMD-LAM-Gxxx-xxx	42A-EMD-LAM-Gxxx-xxx	42A-FMD-LAM-Gxxx-xxx

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48
400

DUAL PRESSURE MODELS

Port size	Pilot air		5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Pressure centre
					
Valve less base	Internal	Supply #3 port	42A-CMB-000-Gxxx-xxx	42A-DMB-000-Gxxx-xxx	42A-HMB-000-Gxxx-xxx
		Supply #5 port	42A-CMC-000-Gxxx-xxx	42A-DMC-000-Gxxx-xxx	42A-HMC-000-Gxxx-xxx
	External		42A-CMD-000-Gxxx-xxx	42A-DMD-000-Gxxx-xxx	42A-HMD-000-Gxxx-xxx
M 5	Internal	Supply #3 port	42A-CMB-GAL-Gxxx-xxx	42A-DMB-GAL-Gxxx-xxx	42A-HMB-GAL-Gxxx-xxx
		Supply #5 port	42A-CMC-GAL-Gxxx-xxx	42A-DMC-GAL-Gxxx-xxx	42A-HMC-GAL-Gxxx-xxx
	External		42A-CMD-GAM-Gxxx-xxx	42A-DMD-GAM-Gxxx-xxx	42A-HMD-GAM-Gxxx-xxx
M 7	Internal	Supply #3 port	42A-CMB-LAL-Gxxx-xxx	42A-DMB-LAL-Gxxx-xxx	42A-HMB-LAL-Gxxx-xxx
		Supply #5 port	42A-CMC-LAL-Gxxx-xxx	42A-DMC-LAL-Gxxx-xxx	42A-HMC-LAL-Gxxx-xxx
	External		42A-CMD-LAM-Gxxx-xxx	42A-DMD-LAM-Gxxx-xxx	42A-HMD-LAM-Gxxx-xxx

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ISO 1
ISO 2
ISO 3

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
DC	24 V~/1,8W	B	60 cm	2	Locking	BT	Flying leads with light
DD	24 V~/2,5W	C	90 cm			KA	Mini connector
DF	24 V~/4,0W					KT	Mini connector with light
						KD	Mini connector with rectifier & light & ground

Note : AC voltage requires connector with rectifier.

* Click here for other options available.

Latching solenoid available for 5/2 valves.

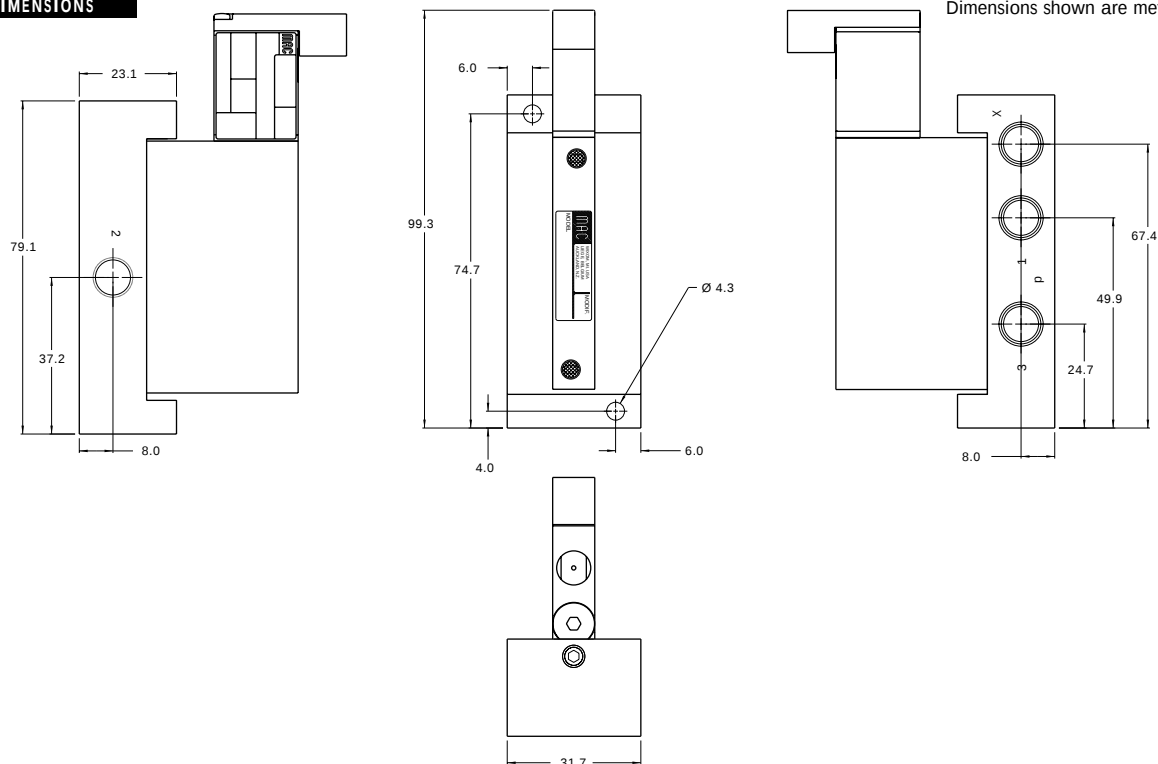
Other options available for the 42 series valves, click here.

TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot - 2 pos. : 1,3 to 8 bar 3 pos. : 2,3 to 8 bar External Pilot : vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar 3 position : 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 :	3,8 mm
Flow (at 6 bar, ΔP=1bar) :	M7: 400 NI/min (Cv 0,4) – M5: 350 NI/min (Cv 0,35)
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 24V 4 W coil) De-energize : 5 ms

- Options :
- NPTF threads
 - Sandwich flow controls : FC42A-BB
 - Sandwich regulator : see 'Regulator' section

DIMENSIONS



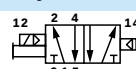
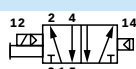
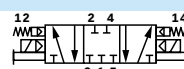
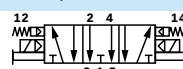
Function	Port size	Flow (Max)	Individual mounting	Series
5 / 2, 5 / 3	M 5, M 7	400 NI/min	Sub-base "plug-in"	

OPERATIONAL BENEFITS

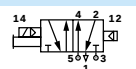
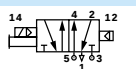
1. 4-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 10,5 mm centres).
3. High flow (up to 400 NI/min).
4. Fast repeatable response times.
5. Maximum shifting forces in both directions.
6. Long life.

HOW TO ORDER

SINGLE PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS)

Port size	Pilot air	5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Closed centre	5 / 3 Open centre
					
Valve less base	Internal	42A-AMA-000-GxxP-xxx	42A-BME-000-GxxP-xGA	42A-EME-000-GxxP-xGA	42A-FME-000-GxxP-xGA
	External	42A-AMD-000-GxxP-xxx	42A-BMH-000-GxxP-xGA	42A-EMH-000-GxxP-xGA	42A-FMH-000-GxxP-xGA
M 5	Internal	42A-AMA-GAA-GxxP-xxx	42A-BME-GAC-GxxP-xGA	42A-EME-GAC-GxxP-xGA	42A-FME-GAC-GxxP-xGA
	External	42A-AMD-GAB-GxxP-xxx	42A-BMH-GAD-GxxP-xGA	42A-EMH-GAD-GxxP-xGA	42A-FMH-GAD-GxxP-xGA
M 7	Internal	42A-AMA-LAA-GxxP-xxx	42A-BME-LAC-GxxP-xGA	42A-EME-LAC-GxxP-xGA	42A-FME-LAC-GxxP-xGA
	External	42A-AMD-LAB-GxxP-xxx	42A-BMH-LAD-GxxP-xGA	42A-EMH-LAD-GxxP-xGA	42A-FMH-LAD-GxxP-xGA

DUAL PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS)

Port size	Pilot air	5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Pressure centre
				
Valve less base	Internal	Supply #3 port	42A-CMB-000-GxxP-xxx	42A-DMF-000-GxxP-xGA
		Supply #5 port	42A-CMC-000-GxxP-xxx	42A-DMG-000-GxxP-xGA
	External	Supply #3 port	42A-CMD-000-GxxP-xxx	42A-DMH-000-GxxP-xGA
		Supply #5 port	42A-CMB-GAA-GxxP-xxx	42A-DMF-GAC-GxxP-xGA
M 5	Internal	Supply #3 port	42A-CMB-GAA-GxxP-xxx	42A-DMF-GAC-GxxP-xGA
		Supply #5 port	42A-CMC-GAA-GxxP-xxx	42A-DMG-GAC-GxxP-xGA
	External	Supply #3 port	42A-CMD-GAB-GxxP-xxx	42A-DMH-GAD-GxxP-xGA
		Supply #5 port	42A-CMB-LAA-GxxP-xxx	42A-DMF-LAC-GxxP-xGA
M 7	Internal	Supply #3 port	42A-CMB-LAA-GxxP-xxx	42A-DMF-LAC-GxxP-xGA
		Supply #5 port	42A-CMC-LAA-GxxP-xxx	42A-DMG-LAC-GxxP-xGA
	External	Supply #3 port	42A-CMD-LAB-GxxP-xxx	42A-DMH-LAD-GxxP-xGA
		Supply #5 port	42A-CMB-LAA-GxxP-xxx	42A-DMF-LAC-GxxP-xGA

STANDARD SOLENOID OPERATOR ➤

G **xx** P-**xxx***

xx	Voltage	x	Manual operator	xx	Electrical connection
AA	120 V~/2,5W	1	Non-locking	GA	Base plug-in
DC	24 V=/1,8W	2	Locking	DJ	Base plug-in
DD	24 V=/2,5W			DM	Base plug-in with ground pin
DF	24 V=/4,0W			DD	Base plug-in with rectifier & light & ground

Note : AC voltage requires connector with rectifier for single solenoid only.

* Click here for other options available.

Other options available for the 42 series valves, click here.

Consult "Precautions" before use, installation or service of MAC Valves..

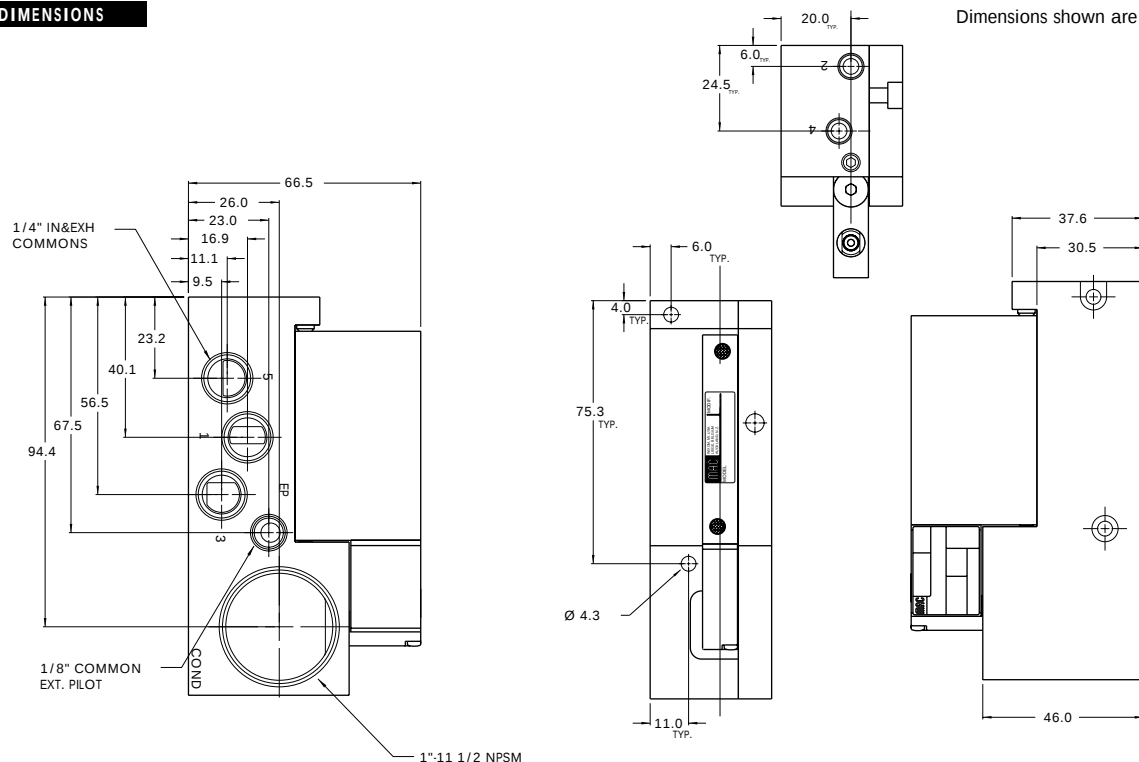
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot - 2 pos. : 1,3 to 8 bar 3 pos. : 2,3 to 8 bar External Pilot : vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar 3 position : 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 :	3,8 mm
Flow (at 6 bar, ΔP=1bar) :	M7: 400 NI/min (Cv 0,4) – M5: 350 NI/min (Cv 0,35)
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 24V 4 W coil)	De-energize : 5 ms

- Options :
- NPTF ports
 - Sandwich flow controls : FC42A-AB
 - Sandwich regulator : see 'Regulator' section

DIMENSIONS

Dimensions shown are metric (mm)



Function	Port size	Flow (Max)	Manifold mounting	Series
5 / 2, 5 / 3	M5, M7	400 NI/min	Manifold base non "plug-in"	

OPERATIONAL BENEFITS

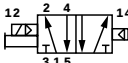
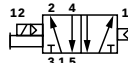
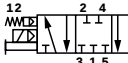
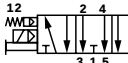
1. 4-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 10,5 mm centres).
3. High flow (up to 400 NI/min).
4. Fast repeatable response times.
5. Maximum shifting forces in both directions.
6. Long life.



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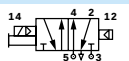
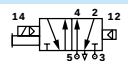
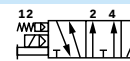
HOW TO ORDER

SINGLE PRESSURE MODELS (MIDDLE STATION MANIFOLDS WITH SIDE PORTS)

Port size	Pilot air	5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Closed centre	5 / 3 Open centre
					
Valve less base	Internal	42A-AMA-000-Gxxx-xxx	42A-BMA-000-Gxxx-xxx	42A-EMA-000-Gxxx-xxx	42A-FMA-000-Gxxx-xxx
	External	42A-AMD-000-Gxxx-xxx	42A-BMD-000-Gxxx-xxx	42A-EMD-000-Gxxx-xxx	42A-FMD-000-Gxxx-xxx
M 5	Internal	42A-AMA-GJL-Gxxx-xxx	42A-BMA-GJL-Gxxx-xxx	42A-EMA-GJL-Gxxx-xxx	42A-FMA-GJL-Gxxx-xxx
	External	42A-AMD-GJM-Gxxx-xxx	42A-BMD-GJM-Gxxx-xxx	42A-EMD-GJM-Gxxx-xxx	42A-FMD-GJM-Gxxx-xxx
M 7	Internal	42A-AMA-LJL-Gxxx-xxx	42A-BMA-LJL-Gxxx-xxx	42A-EMA-LJL-Gxxx-xxx	42A-FMA-LJL-Gxxx-xxx
	External	42A-AMD-LJM-Gxxx-xxx	42A-BMD-LJM-Gxxx-xxx	42A-EMD-LJM-Gxxx-xxx	42A-FMD-LJM-Gxxx-xxx

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DUAL PRESSURE MODELS (MIDDLE STATION MANIFOLDS WITH SIDE PORTS)

Port size	Pilot air		5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Pressure centre
					
Valve less base	Internal	Supply #3 port	42A-CMB-000-Gxxx-xxx	42A-DMB-000-Gxxx-xxx	42A-HMB-000-Gxxx-xxx
		Supply #5 port	42A-CMC-000-Gxxx-xxx	42A-DMC-000-Gxxx-xxx	42A-HMC-000-Gxxx-xxx
M 5	External		42A-CMD-000-Gxxx-xxx	42A-DMD-000-Gxxx-xxx	42A-HMD-000-Gxxx-xxx
	Internal	Supply #3 port	42A-CMB-GJL-Gxxx-xxx	42A-DMB-GJL-Gxxx-xxx	42A-HMB-GJL-Gxxx-xxx
		Supply #5 port	42A-CMC-GJL-Gxxx-xxx	42A-DMC-GJL-Gxxx-xxx	42A-HMC-GJL-Gxxx-xxx
	External		42A-CMD-GJM-Gxxx-xxx	42A-DMD-GJM-Gxxx-xxx	42A-HMD-GJM-Gxxx-xxx
M 7	Internal	Supply #3 port	42A-CMB-LJL-Gxxx-xxx	42A-DMB-LJL-Gxxx-xxx	42A-HMB-LJL-Gxxx-xxx
		Supply #5 port	42A-CMC-LJL-Gxxx-xxx	42A-DMC-LJL-Gxxx-xxx	42A-HMC-LJL-Gxxx-xxx
	External		42A-CMD-LJM-Gxxx-xxx	42A-DMD-LJM-Gxxx-xxx	42A-HMD-LJM-Gxxx-xxx

9 2
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ISO 1
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ISO 3

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
DC	24 V~/1,8W	B	60 cm	2	Locking	BT	Flying leads with light
DD	24 V~/2,5W	C	90 cm			KA	Mini connector
DF	24 V~/4,0W					KT	Mini connector with light
						KD	Mini connector with rectifier & light & ground

Note : - AC voltage requires connector with rectifier.

* Click here for other options available.

Latching solenoid available for 5/2 valves.

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

Other options available for the 42 series valves, click here.

Consult "Precautions" before use, installation or service of MAC Valves..

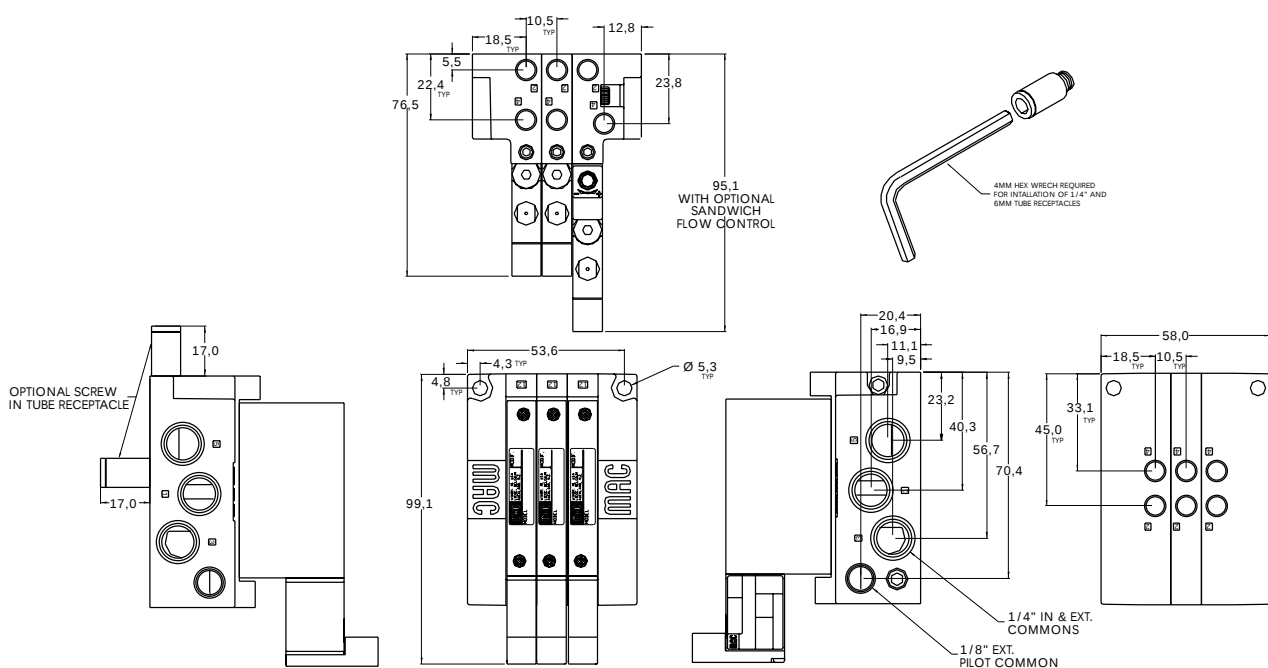
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot - 2 pos. : 1,3 to 8 bar 3 pos. : 2,3 to 8 bar External Pilot : vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar 3 position : 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 :	3,8 mm
Flow (at 6 bar, ΔP=1bar) :	M7: 400 NI/min (Cv 0,4) – M5: 350 NI/min (Cv 0,35)
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 24V 4 W coil) De-energize : 5 ms

- Options :
- NPTF threads • Sandwich flow controls : FC42A-BB
 - Sandwich regulator : see "regulators" section • Isolator disk for inlet and exhaust: 28454
 - Valve blanking plate : M-42004

DIMENSIONS

Dimensions shown are metric (mm)



Function	Port size	Flow (Max)	Manifold mounting	Series
5 / 2, 5 / 3	M5, M7	400 NI/min	Manifold base "plug-in"	

OPERATIONAL BENEFITS

1. 4-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.
6. Long life.



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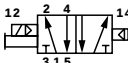
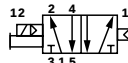
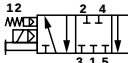
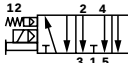
ISO 1

ISO 2

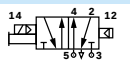
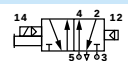
ISO 3

HOW TO ORDER

SINGLE PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS)

Port size	Pilot air	5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Closed centre	5 / 3 Open centre
					
Valve less base	Internal	42A-AMA-000-GxxP-xxx	42A-BME-000-GxxP-xxx	42A-EME-000-GxxP-xxx	42A-FME-000-GxxP-xxx
	External	42A-AMD-000-GxxP-xxx	42A-BMH-000-GxxP-xxx	42A-EMH-000-GxxP-xxx	42A-FMH-000-GxxP-xxx
M 5	Internal	42A-AMA-GJA-GxxP-xxx	42A-BME-GJC-GxxP-xxx	42A-EME-GJC-GxxP-xxx	42A-FME-GJC-GxxP-xxx
	External	42A-AMD-GJB-GxxP-xxx	42A-BMH-GJD-GxxP-xxx	42A-EMH-GJD-GxxP-xxx	42A-FMH-GJD-GxxP-xxx
M 7	Internal	42A-AMA-LJA-GxxP-xxx	42A-BME-LJC-GxxP-xxx	42A-EME-LJC-GxxP-xxx	42A-FME-LJC-GxxP-xxx
	External	42A-AMD-LJB-GxxP-xxx	42A-BMH-LJD-GxxP-xxx	42A-EMH-LJD-GxxP-xxx	42A-FMH-LJD-GxxP-xxx

DUAL PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS)

Port size	Pilot air		5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Pressure centre
					
Valve less base	Internal	Supply #3 port	42A-CMB-000-GxxP-xxx	42A-DMF-000-GxxP-xxx	42A-HMF-000-GxxP-xxx
		Supply #5 port	42A-CMC-000-GxxP-xxx	42A-DMG-000-GxxP-xxx	42A-HMG-000-GxxP-xxx
M 5	External		42A-CMD-000-GxxP-xxx	42A-DMH-000-GxxP-xxx	42A-HMH-000-GxxP-xxx
	Internal	Supply #3 port	42A-CMB-GJA-GxxP-xxx	42A-DMF-GJC-GxxP-xxx	42A-HMF-GJC-GxxP-xxx
		Supply #5 port	42A-CMC-GJA-GxxP-xxx	42A-DMG-GJC-GxxP-xxx	42A-HMG-GJC-GxxP-xxx
	External		42A-CMD-GJB-GxxP-xxx	42A-DMH-GJD-GxxP-xxx	42A-HMH-GJD-GxxP-xxx
M 7	Internal	Supply #3 port	42A-CMB-LJA-GxxP-xxx	42A-DMF-LJC-GxxP-xxx	42A-HMF-LJC-GxxP-xxx
		Supply #5 port	42A-CMC-LJA-GxxP-xxx	42A-DMG-LJC-GxxP-xxx	42A-HMG-LJC-GxxP-xxx
	External		42A-CMD-LJB-GxxP-xxx	42A-DMH-LJD-GxxP-xxx	42A-HMH-LJD-GxxP-xxx

STANDARD SOLENOID OPERATOR ►

G **XX** P-**XXX***

XX	Voltage	X	Manual operator	XX	Electrical connection
AA	120 V~/2,5W	1	Non-locking	GA	Base plug-in
DC	24 V~/1,8W	2	Locking	DJ	Base plug-in
DD	24 V~/2,5W			DM	Base plug-in with ground pin
DF	24 V~/4,0W			DD	Base plug-in with rectifier & light & ground

* Click here for other options available.

** Latching solenoid available for 5 / 2 valves.

Note : - AC voltage requires connector with rectifier for single solenoid only.

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

Other options available for the 42 series valves, click here.

Above numbers are middle station manifold with side ports

Consult "Precautions" before use, installation or service of MAC Valves..

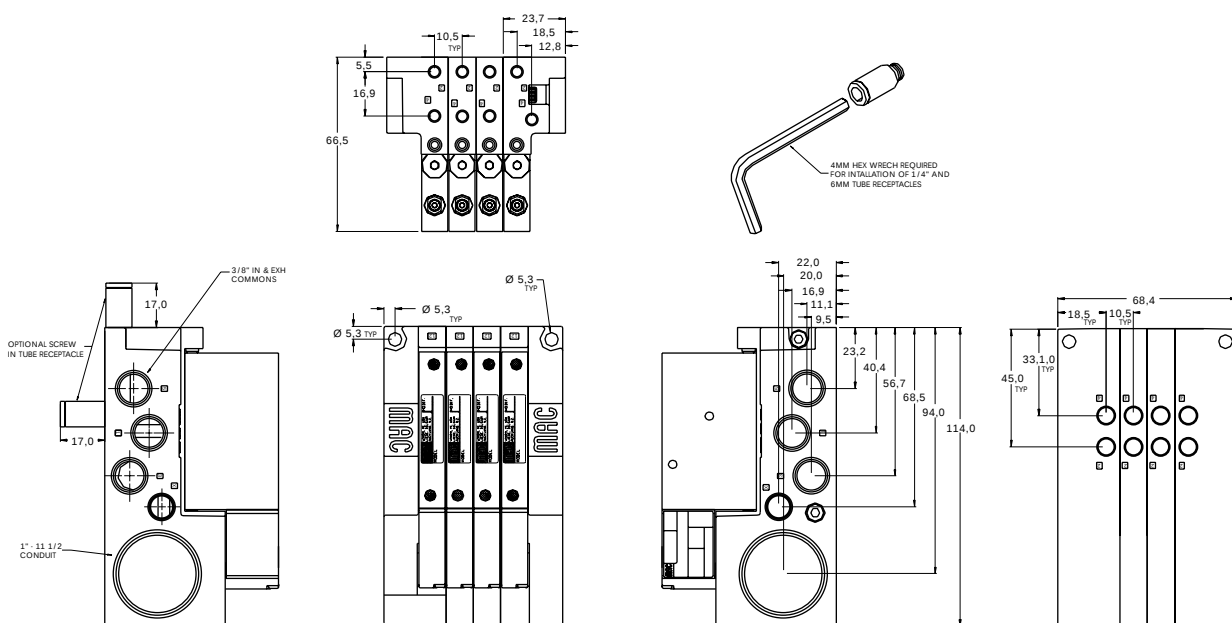
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot - 2 pos. : 1,3 to 8 bar 3 pos. : 2,3 to 8 bar External Pilot : vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar 3 position : 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 :	3,8 mm
Flow (at 6 bar, ΔP=1bar) :	M7: 400 NI/min (Cv 0,4) – M5: 350 NI/min (Cv 0,35)
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 24V 4 W coil) De-energize : 5 ms

- Options :
- NPTF threads • Sandwich flow controls : FC42A-AB
 - Sandwich regulator : see "regulators" section • Isolator disk for inlet and exhaust: 28454
 - Valve blanking plate : M-42004 • Plug-in wire protector : 24180

DIMENSIONS

Dimensions shown are metric (mm)



Function	Port size	Flow (Max)	Individual/Manifold mounting	Series
5 / 2	M5, M7	400 NI/min	Sub-base/ manifold base non "plug-in" with latching solenoid	

OPERATIONAL BENEFITS

1. 4-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.
6. Long life.



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3 6
3 2
3 7
3 8
5 2
6 7
4 4

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4 2

4 7

4 8

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9 2

9 3

ISO 1

ISO 2

ISO 3

HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot air	5 / 2 Single pressure
		
Valve less base	Internal	42A-AMA-000-Lxxx-xxx
	External	42A-AMD-000-Lxxx-xxx
M 5	Internal	42A-AMA-GAL-Lxxx-xxx
	External	42A-AMD-GAM-Lxxx-xxx
M 7	Internal	42A-AMA-LAL-Lxxx-xxx
	External	42A-AMD-LAM-Lxxx-xxx

DUAL PRESSURE MODELS

Port size	Pilot air	5 / 2 Dual pressure
		
Valve less base	Internal Supply #3 port	42A-CMB-000-Lxxx-xxx
	Supply #5 port	42A-CMC-000-Lxxx-xxx
	External	42A-CMD-000-Lxxx-xxx
M 5	Internal Supply #3 port	42A-CMB-GAL-Lxxx-xxx
	Supply #5 port	42A-CMC-GAL-Lxxx-xxx
	External	42A-CMD-GAM-Lxxx-xxx
M 7	Internal Supply #3 port	42A-CMB-LAL-Lxxx-xxx
	Supply #5 port	42A-CMC-LAL-Lxxx-xxx
	External	42A-CMD-LAM-Lxxx-xxx

LATCHING SOLENOID OPERATOR ➤

L XXX-XXX *

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
DF	24 VDC (4,0 W)	A	45 cm	0	No operator	BA	2 Wire Flying leads
HA	24 VDC (1,95 W)	B	60 cm			KA	2 Wire Plug-in Assembly
		C	90 cm			LA	3 wire plug-in assembly (polarity switching cover)
						KE	4-wire plug-in assembly

* Click here for other options available.

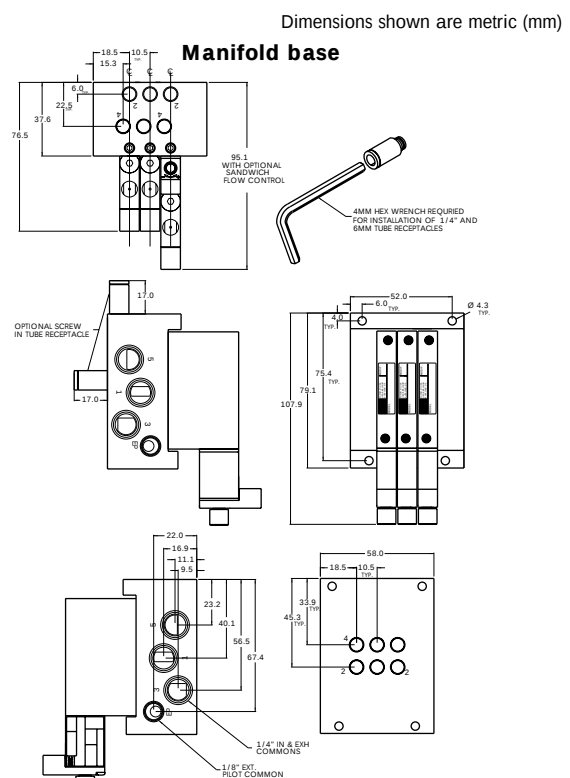
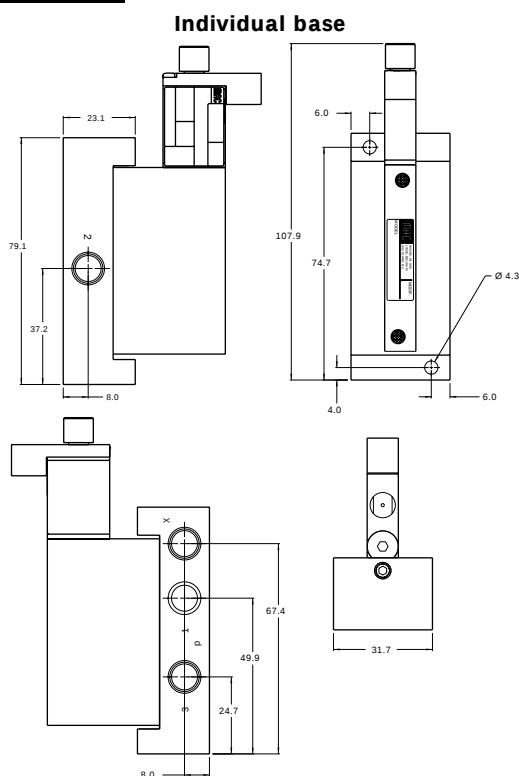
Note : Manifold assemblies consist of (1) left end manifold, (1) right end manifold, and middle station manifolds (options "J" or "K").
Other options available for the 42 series valves, click here.

TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot - 2 pos. : 1,3 to 8 bar 3 pos. : 2,3 to 8 bar External Pilot : vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar 3 position : 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 :	3,8 mm
Flow (at 6 bar, ΔP=1bar) :	M7: 400 NI/min (Cv 0,4) – M5: 350 NI/min (Cv 0,35)
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 24V 4 W coil) De-energize : 5 ms

- Options :
- NPTF threads • Sandwich flow controls : FC42A-BB
 - Sandwich regulator : see "regulators" section • Isolator disk for inlet and exhaust: 28454
 - Valve blanking plate : M-42004

DIMENSIONS



Consult "Precautions" before use, installation or service of MAC Valves..

Function	Port size	Flow (Max)	Individual/Manifold mounting	Series
5 / 2	M 5, M 7	400 NI/min	Sub-base/ manifold base "plug-in" with latching solenoid	

OPERATIONAL BENEFITS

1. 4-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.
6. Long life.

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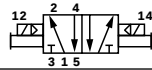
ISO 1

ISO 2

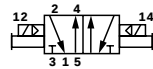
ISO 3

HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot air	5 / 2 Single pressure
		
Valve less base	Internal	42A-AMA-000-LxxP-xxx
	External	42A-AMD-000-LxxP-xxx
M 5	Internal	42A-AMA-GAA-LxxP-xxx
	External	42A-AMD-GAB-LxxP-xxx
M 7	Internal	42A-AMA-LAA-LxxP-xxx
	External	42A-AMD-LAB-LxxP-xxx

DUAL PRESSURE MODELS

Port size	Pilot air	5 / 2 Dual pressure
		
Valve less base	Internal Supply #3 port	42A-CMB-000-LxxP-xxx
	Supply #5 port	42A-CMC-000-LxxP-xxx
	External	42A-CMD-000-LxxP-xxx
M 5	Internal Supply #3 port	42A-CMB-GAA-LxxP-xxx
	Supply #5 port	42A-CMC-GAA-LxxP-xxx
	External	42A-CMD-GAB-LxxP-xxx
M 7	Internal Supply #3 port	42A-CMB-LAA-LxxP-xxx
	Supply #5 port	42A-CMC-LAA-LxxP-xxx
	External	42A-CMD-LAB-LxxP-xxx

LATCHING SOLENOID OPERATOR ➤

L **xx** P-**xxx***

xx	Voltage	x	Manual operator	xx	Electrical connection**
DF	24 VDC/4,0W	0	No operator	DA	Plug-in
HA	24 VDC/1,95W			EA	Plug-in 3 pin (polarity switching cover)

* Click here for other options available.

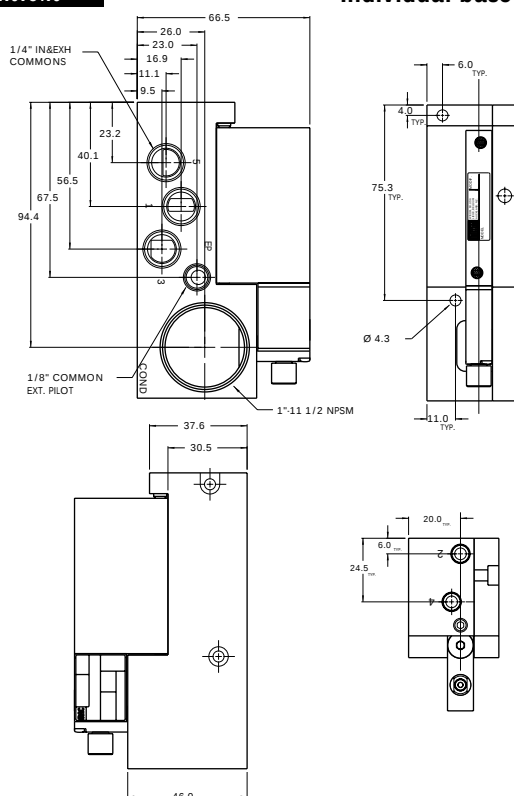
** For latching solenoid 2 and 4 wire, use electrical connector DA, DB, DC or DD. For 3 wire latching, use the "EA" connector.
Other options available for the 42 series valves, click here.

TECHNICAL DATA

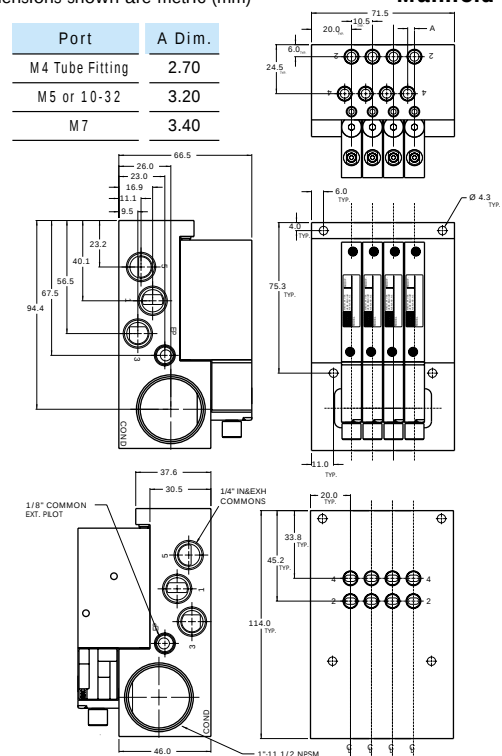
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal Pilot - 2 pos. : 1,3 to 8 bar 3 pos. : 2,3 to 8 bar External Pilot : vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar 3 position : 2,3 to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	3,8 mm
Flow (at 6 bar, ΔP=1bar) :	M7: 400 NI/min (Cv 0,4) – M5: 350 NI/min (Cv 0,35)
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 24V 4 W coil) De-energize : 5 ms

- Options :
- NPTF threads • Sandwich flow controls : FC42A-AB
 - Sandwich regulator : see "regulators" section • Isolator disk for inlet and exhaust: 28454
 - Valve blanking plate : M-42004 • Plug-in wire protector : 24180

DIMENSIONS



Dimensions shown are metric (mm)



Consult "Precautions" before use, installation or service of MAC Valves..

OPTIONS FOR NON PLUG-IN VALVES	3 4
Base type :	3 6
Individual base	
42A-XXX-X A X-Gxxx-xxx	
A Individual base – Side port	3 2
B Individual base – Bottom port	3 7
Manifold base	3 8
42A-XXX-X J X-Gxxx-xxx	
J Manifold base – Side ports	5 2
K Manifold base – Bottom ports	6 7
L Left end manifold base – Side ports	4 4
M Left end manifold base – Bottom ports	4 6
N Right end manifold base – Side ports	4 2
P Right end manifold base – Bottom ports	4 7
Universal spool	4 8
42A-RXX-XXX-Gxxx-xxx	
R 2 position single solenoid universal spool	4 0 0
S 2 position double solenoid universal spool	9 2
Base only :	9 3
42A-000-XXX (i.e. 42A-000-GAL) - Individual base	ISO 1
42A-000-XXX (i.e. 42A-000-GJL) - Manifold base	ISO 2
Pilot style :	ISO 3
42A-X M X-XXX-Gxxx-xxx	
M Pilot exhaust muffled	
R Pilot exhaust piped (M5)	
U Pilot exhaust to main exhaust	
Base / Manifold configurations for LATCHING SOLENOID VALVES :	
42A-xxx-x A x-Lxxx-xxx	
A Individual base – Side port	
B Individual base – Bottom port	
J Manifold base – Side ports	
K Manifold base – Bottom ports	
L Left end manifold base - Side ports	
M Left end manifold base - Bottom ports	
N Right end manifold base - Side ports	
P Right end manifold base - Bottom ports	

OPTIONS FOR PLUG-IN VALVES

Base type :

Individual base

42A-XXX-X**A**X-GxxP-xxx

- A** Individual base – Side port
- B** Individual base – Bottom port

Manifold base

42A-XXX-X**JX**-GxxP-xxx

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

Universal spool

42A-**RXX**-XXX-GxxP-xxx

- R** 2 position single solenoid universal spool
- S** 2 position double solenoid universal spool

Base only :

42A-000-XXX (i.e. 42A-000-GAC)

- Individual base wired for a double solenoid

42A-000-XXX (i.e. 42A-000-GJC)

- Manifold base wired for a single solenoid

For LED with diode (2 & 3 position double solenoid valves)

42A-XX**J**-XXX-GxxP-xGA

- J** Internal pilot single pressure
- K** Internal pilot dual pressure supply from #3 port
- L** Internal pilot dual pressure supply from #5 port
- M** External pilot

Pilot style :

42A-X**MX**-XXX-GxxP-xxx

- M** Pilot exhaust muffled
- R** Pilot exhaust piped (M5)
- U** Pilot exhaust to main exhaust

Base/Manifold configurations for LATCHING SOLENOID VALVES :

42A-xxx-x**A**x-LxxP-xxx

- A** Individual base – Side port
- B** Individual base – Bottom port
- J** Manifold base – Side ports
- K** Manifold base – Bottom ports
- L** Left end manifold base - Side ports
- M** Left end manifold base - Bottom ports
- N** Right end manifold base - Side ports
- P** Right end manifold base - Bottom ports

Base/Manifold options for int./ext. pilot for LATCHING SOLENOID VALVES :

42A-xxx-xx**A**-LxxP-xxx

- A** Plug-in Int. Pilot – 2 Wire Latching
- B** Plug-in Ext. Pilot – 2 Wire Latching
- C** Plug-in Int. Pilot – 3 Wire Latching
- D** Plug-in Ext. Pilot – 3 Wire Latching
- E** Plug-in Int. Pilot – 4 Wire Latching
- F** Plug-in Ext. Pilot – 4 Wire Latching

Individual mounting

Inline	Sub-base non "plug-in"
--------	------------------------

Series

3 4

Manifold mounting

Stacking	Manifold base "plug-in"
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3 6

3 2

Manual operator

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3 8

5 2

6 7

4 4

4 6

4 2

4 7

4 8

4 0 0

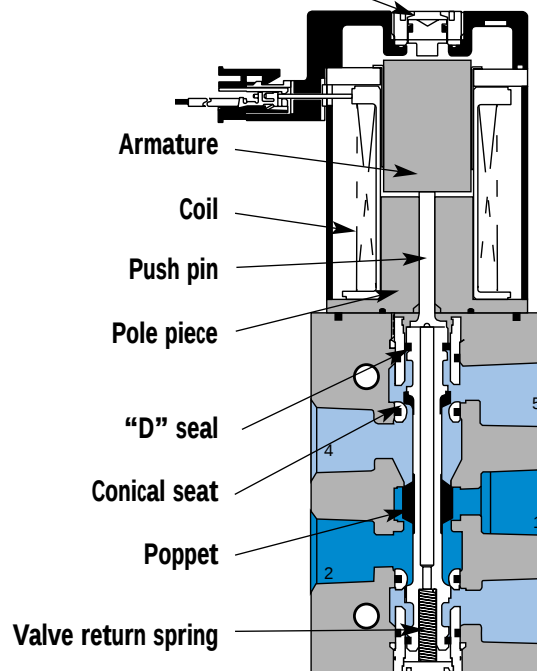
9 2

9 3

ISO 1

ISO 2

ISO 3



SERIES FEATURES

- Short stroke solenoid produces high energization shifting force.
- High force return spring due to high force solenoid maximizes both energization and de-energization shifting forces.
- Built-in wear compensation - valve stroke is shorter than solenoid stroke.
- Four (4) bonded balanced poppets on a one-piece valve stem.
- End poppets seal first on conical seats and cushion inlet poppet, eliminating cutting.
- Exhaust seals are not under inlet pressure thus reducing friction.
- Short stroking balanced poppet allows for direct solenoid operation with high shifting forces, minimized friction, fast response and high flow in a small package.

Function	Port size	Flow (Max)	Individual Mounting	Series
5 / 2	G 1 / 8 " - G 1 / 4 "	500 NI / min	Inline	

OPERATIONAL BENEFITS

- Short stroke solenoid produces high energization shifting force.
- High force return spring due to high force solenoid maximizes both energization and de-energization shifting forces.
- Built-in wear compensation – valve stroke is shorter than solenoid stroke.
- Four bonded balanced poppets on a one-piece valve stem.
- End poppets seal first on conical seats and cushion inlet poppet, eliminating cutting.
- Exhaust seals are not under inlet pressure thus reducing friction.
- Integral non-rising flow controls available on inline models.
- Short stroking balanced poppet allows for direct solenoid operation with high shifting forces, minimized friction, fast response and high flow in a small package.



HOW TO ORDER

Port size	Without flow controls	With flow controls
		
G 1 / 8 "	47A-AC0-H XXX-XXX	47A-BC0-H XXX-XXX
G 1 / 4 "	47A-AD0-H XXX-XXX	47A-BD0-H XXX-XXX

SOLENOID OPERATOR ➤

H XXX-XXX *

XX Voltage	X Lead Wire length	X Manual operator	XX Electrical connection
DA 24V=/5,2W	A 45 cm	1 Non-locking	MA Plug-in wire assembly
DB 24V=/2,4W	B 60 cm	2 Locking	MC Plug-in wire assembly with light
DC 24V=/1,8W	C 90 cm		BA Flying leads
DD 24V=/1,0W			BC Flying leads with light
AA 120V=/6,7W			MT Plug-in wire assembly with rectifier & light

* Click here for other options available.
Note: AC voltage requires connector with rectifier.

LATCHING OPERATOR ➤

L XXX-XXX *

XX Voltage	X Lead Wire length	X Manual operator	XX Electrical connection
DA 24V=/5,2W	A 45 cm	0 No operator	BA 2 Wire Flying leads
DF 12V=/5,2W	B 60 cm		BJ 4 Wire Flying leads
	C 90 cm		LA 3 Wire Plug-in (Polarity switching cover)
			MA 2 Wire Plug-in
			ME 4 Wire Plug-in

* Click here for other options available.

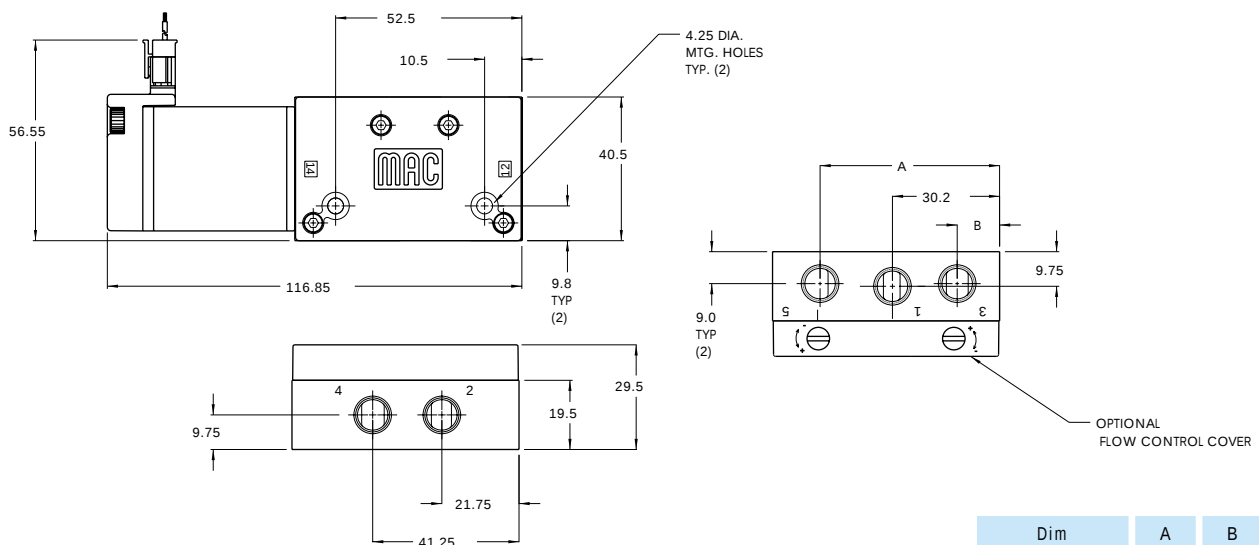
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum 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 :	4,3 mm
Flow (at 6 bar, ΔP=1bar) :	5,2W : 500 NI/min (Cv 0,50) – 2,4W : 350NI/min (Cv 0,35) – 1,0W : 300 NI/min (Cv 0,30)
Coil :	Epoxy encapsulated – 100% ED
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	5,2W – 2,4W – 1,0W
Response times :	Energize : 17,4 ms
(with 5,2 W coil)	De-energise : 3,8 ms

- Options :
- NPTF threads
- Spare parts :
- Flow control assembly : N-47004

DIMENSIONS

Dimensions shown are metric (mm)

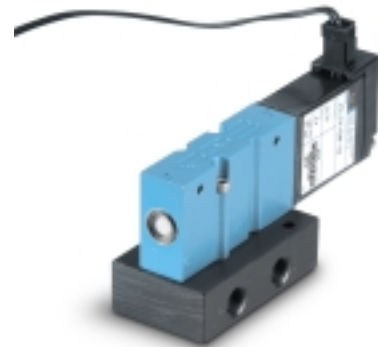


Dim	A	B
1 / 8 "	50.6	11.95
1 / 4 "	49.2	11.2

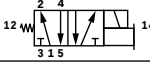
Function	Port size	Flow (Max)	Individual Mounting	Series
5 / 2	G 1 / 8 " - G 1 / 4 "	500 NI / min	Sub-base non "plug-in"	

OPERATIONAL BENEFITS

- Short stroke solenoid produces high energization shifting force.
- High force return spring due to high force solenoid maximizes both energization and de-energization shifting forces.
- Built-in wear compensation – valve stroke is shorter than solenoid stroke.
- Four bonded balanced poppets on a one-piece valve stem.
- End poppets seal first on conical seats and cushion inlet poppet, eliminating cutting.
- Exhaust seals are not under inlet pressure thus reducing friction.
- Integral non-rising flow controls available on inline models.
- Short stroking balanced poppet allows for direct solenoid operation with high shifting forces, minimized friction, fast response and high flow in a small package.



HOW TO ORDER

Port size	Without flow controls	With flow controls
		
Valve less base	47A-L10-H XXX-XXX	47A-L10-H XXX-XXX
G 1 / 8 "	47A-LCA-H XXX-XXX	47A-LCB-H XXX-XXX
G 1 / 4 "	47A-LDA-H XXX-XXX	47A-LDB-H XXX-XXX

SOLENOID OPERATOR ➤

H **XXX-XXX***

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
DA	24V= /5,2W	A	45 cm	1	Non-locking	MA	Plug-in wire assembly
DB	24V= /2,4W	B	60 cm	2	Locking	MC	Plug-in wire assembly with light
DC	24V= /1,8W	C	90 cm			BA	Flying leads
DD	24V= /1,0W					BC	Flying leads with light
AA	120V= /6,7W					MT	Plug-in wire assembly with rectifier & light

* Click here for other options available.
Note: AC voltage requires connector with rectifier.

LATCHING OPERATOR ➤

L **XXX-XXX***

XX	Voltage	X	Lead Wire length	X	Manual operator	XX	Electrical connection
DA	24V= /5,2W	A	45 cm	0	No operator	BA	2 Wire Flying leads
DF	12V= /5,2W	B	60 cm			BJ	4 Wire Flying leads
		C	90 cm			LA	3 Wire Plug-in (Polarity switching cover)
						MA	2 Wire Plug-in
						ME	4 Wire Plug-in

* Clic for other options available.

TECHNICAL DATA

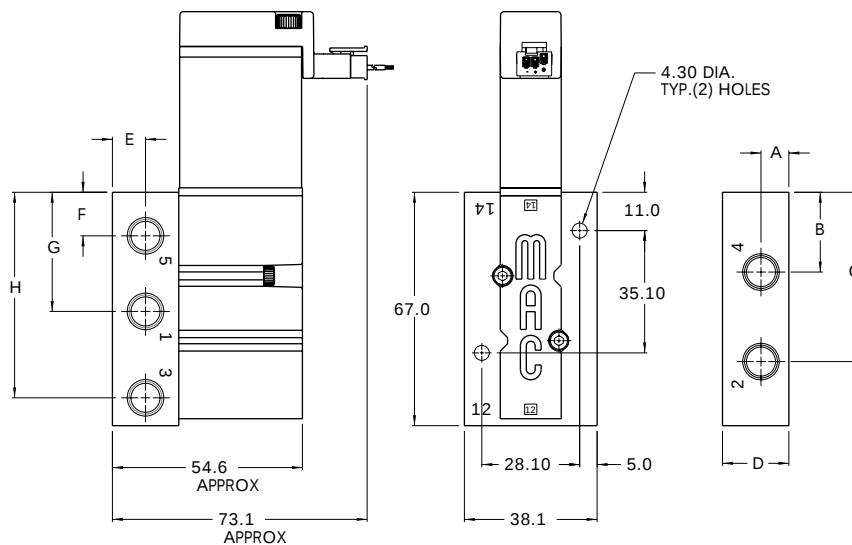
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	4,3 mm
Flow (at 6 bar, ΔP=1bar) :	5,2W : 500 NI/min (Cv 0,50) – 2,4W : 350NI/min (Cv 0,35) – 1,0W : 300 NI/min (Cv 0,30)
Coil :	Epoxy encapsulated – 100% ED
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	5,2W – 2,4W – 1,0W
Response times : (with 5,2 W coil)	Energize : 17,4 ms De-energize : 3,8 ms

Options : • NPTF threads

Spare parts : • Pressure seal body to base: 16628 • Mounting screw (x2): 35043
• Flow control assembly (x2): N-04001

DIMENSIONS

Dimensions shown are metric (mm)



Function	Port size	Flow (Max)	Manifold Mounting	Series
5 / 2	G 1 / 8 " - G 1 / 4 "	500 NI / min	Stacking	

OPERATIONAL BENEFITS

- Short stroke solenoid produces high energization shifting force.
- High force return spring due to high force solenoid maximizes both energization and de-energization shifting forces.
- Built-in wear compensation – valve stroke is shorter than solenoid stroke.
- Four bonded balanced poppets on a one-piece valve stem.
- End poppets seal first on conical seats and cushion inlet poppet, eliminating cutting.
- Exhaust seals are not under inlet pressure thus reducing friction.
- Integral non-rising flow controls available on inline models.
- Short stroking balanced poppet allows for direct solenoid operation with high shifting forces, minimized friction, fast response and high flow in a small package.



HOW TO ORDER

Port size	Without flow controls	With flow controls
		
G 1 / 8 "	47A-SC0-H xxx-xxx	47A-TC0-H xxx-xxx
G 1 / 4 "	47A-SD0-H xxx-xxx	47A-TD0-H xxx-xxx

SOLENOID OPERATOR ➤

H [xxx-xxx](#) *

XX Voltage	X Wire length	X Manual operator	XX Electrical connection
DA 24V= /5,2W	A 45 cm	1 Non-locking	MA Plug-in wire assembly
DB 24V= /2,4W	B 60 cm	2 Locking	MC Plug-in wire assembly with light
DC 24V= /1,8W	C 90 cm		BA Flying leads
DD 24V= /1,0W			BC Flying leads with light
AA 120V= /6,7W			MT Plug-in wire assembly with rectifier & light

* Click here for other options available.
Note: AC voltage requires connector with rectifier.

LATCHING OPERATOR ➤

L [xxx-xxx](#) *

XX Voltage	X Lead Wire length	X Manual operator	XX Electrical connection
DA 24V= /5,2W	A 45 cm	0 No operator	BA 2 Wire Flying leads
DF 12V= /5,2W	B 60 cm		BJ 4 Wire Flying leads
	C 90 cm		LA 3 Wire Plug-in (Polarity switching cover)
			MA 2 Wire Plug-in
			ME 4 Wire Plug-in

* Click here for other options available.
End plate kit required: M-47013-01P (1 / 4 " BSPP).

TECHNICAL DATA

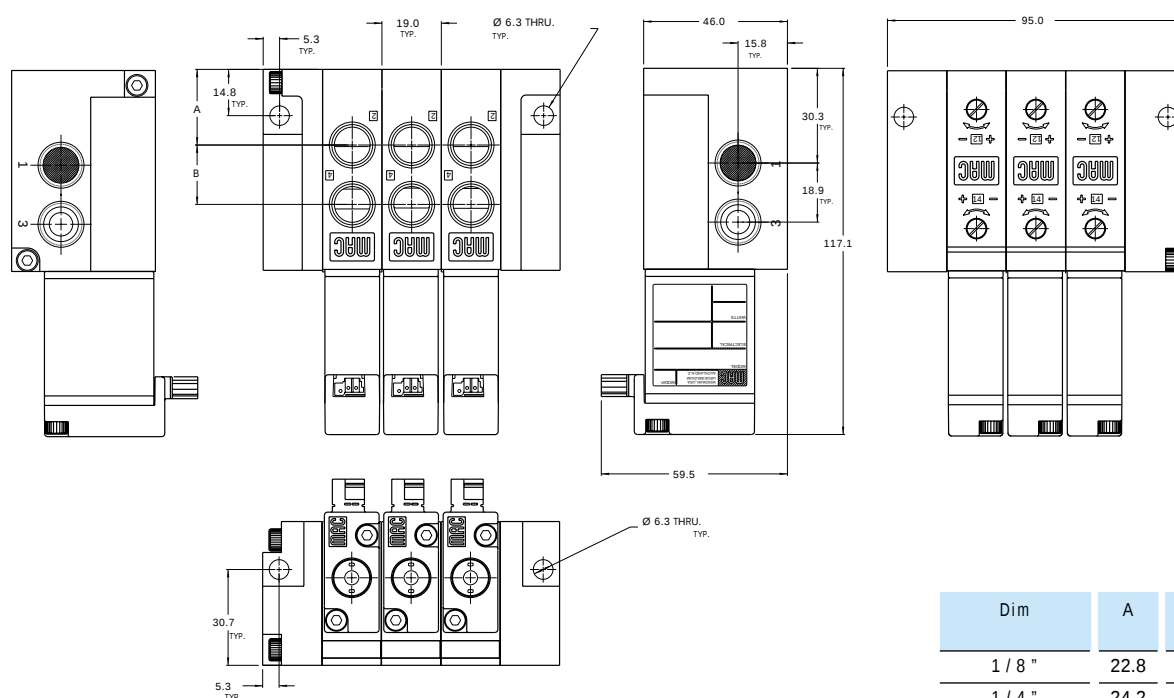
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	4,3 mm
Flow (at 6 bar, ΔP=1bar) :	5,2W : 500 NI/min (Cv 0,50) – 2,4W : 350NI/min (Cv 0,35) – 1,0W : 300 NI/min (Cv 0,30)
Coil :	Epoxy encapsulated – 100% ED
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	5,2W – 2,4W – 1,0W
Response times :	Energize : 17,4 ms
(with 5,2 W coil)	De-energise : 3,8 ms

Options : • NPTF threads

Spare parts : • Inlet isolator: 28451 • Exhaust isolator: N-47009 • Tie Rod (x2): 79057

DIMENSIONS

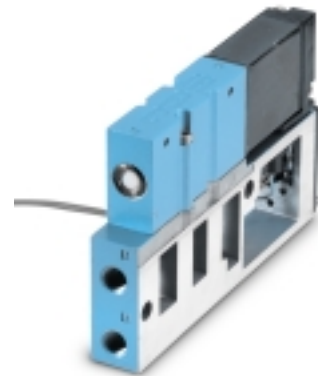
Dimensions shown are metric (mm)



Function	Port size	Flow (Max)	Manifold Mounting	Series
5 / 2	G 1 / 8 " - G 1 / 4 "	500 NI / min	Manifold base "plug-in"	

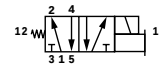
OPERATIONAL BENEFITS

- Short stroke solenoid produces high energization shifting force.
- High force return spring due to high force solenoid maximizes both energization and de-energization shifting forces.
- Built-in wear compensation – valve stroke is shorter than solenoid stroke.
- Four bonded balanced poppets on a one-piece valve stem.
- End poppets seal first on conical seats and cushion inlet poppet, eliminating cutting.
- Exhaust seals are not under inlet pressure thus reducing friction.
- Integral non-rising flow controls available on inline models.
- Short stroking balanced poppet allows for direct solenoid operation with high shifting forces, minimized friction, fast response and high flow in a small package.



HOW TO ORDER

Port size	Model number
Valve less base	47A-L10-H xxP-xxx
G 1 / 8 "	47A-LCJ-H xxP-xxx
G 1 / 4 "	47A-LDJ-H xxP-xxx



SOLENOID OPERATOR ➤

H **xx** P-**xxx** *

xx Voltage	x Manual operator	xx Electrical connection
DA 24 V= / 5,2W	1 Non-locking	FA Base plug-in
DB 24 V= / 2,4W	2 Locking	FB Base plug-in w/ ground
DC 24 V= / 1,8W		FC Base plug-in w/ LED light
DD 24 V= / 1,0W		FD Base plug-in w/ LED light w/ ground
AA 120 V~ / 6,7W		FT Base plug-in w/ rectifier and light

* Click here for other options available.

Note : AC voltage requires connector with rectifier.

LATCHING SOLENOID ➤

L **xx** P-**xxx** *

xx Voltage	x Manual operator	xx Electrical connection
DA 24 V= / 5,2W	0 No operator	FA Base plug-in w/ ground
DF 12 V= / 5,2W		FB Base plug-in w/ ground & LED
		FC Base plug-in 4 wire w/ ground
		FD Base Plug-in 4 wire w/ LED & ground

* Click here for other options available.

OPTIONS

47A-**xxJ**-H**xxx-xxx**

- J** Manifold base, side cylinders (middle station)
- K** Manifold base, bottom cylinders (middle station)
- L** Right end manifold base, side cylinders
- M** Right end manifold base, bottom cylinders
- N** Left end manifold base, side cylinders
- P** Left end manifold base, bottom cylinders

Fastening kit required: N-47005-01.

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

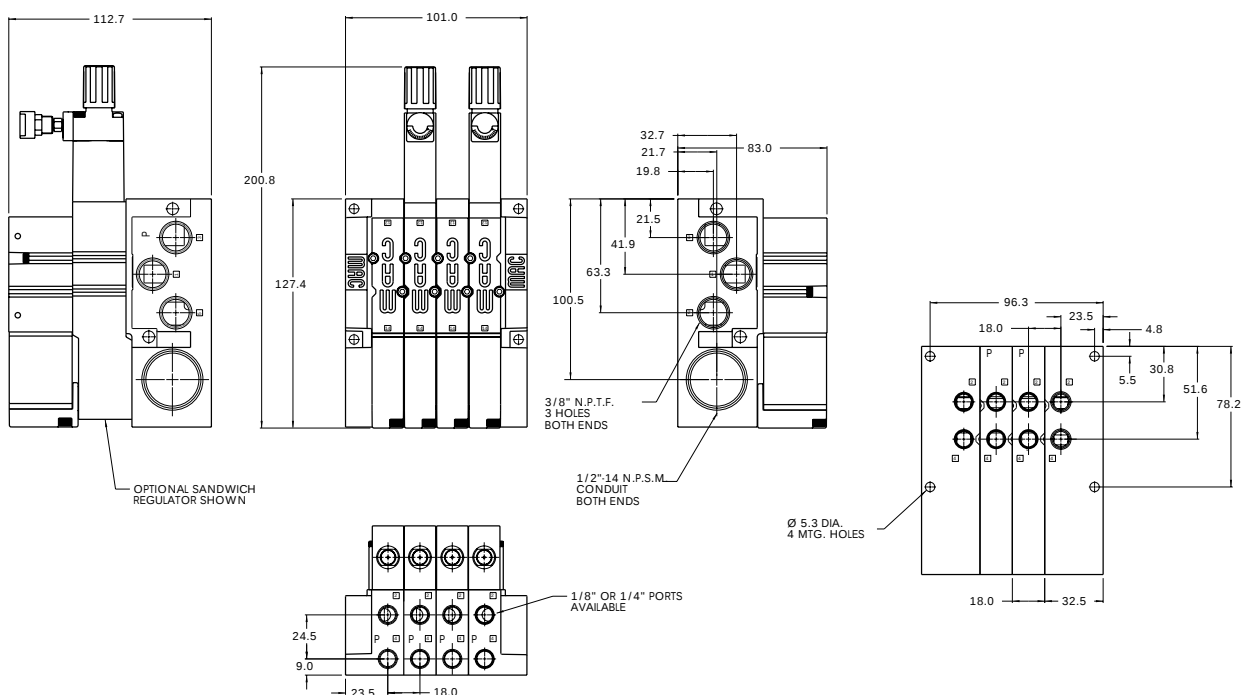
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum 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 :	4,3 mm
Flow (at 6 bar, ΔP=1bar) :	5,2W : 500 NI/min (Cv 0,50) – 2,4W : 350NI/min (Cv 0,35) – 1,0W : 300 NI/min (Cv 0,30)
Coil :	Epoxy encapsulated – 100% ED
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	5,2W – 2,4W – 1,0W
Response times :	Energize : 17,4 ms
(with 5,2 W coil)	De-energise : 3,8 ms

- Options :
- NPTF threads • Sandwich flow control: FC47A-AA
- Spare parts :
- Inlet/exhaust isolator: 28447 • Valve cover plate: M-47001

DIMENSIONS

Dimensions shown are metric (mm)



Direct solenoid and solenoid pilot operated valves

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

3 4

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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4 7

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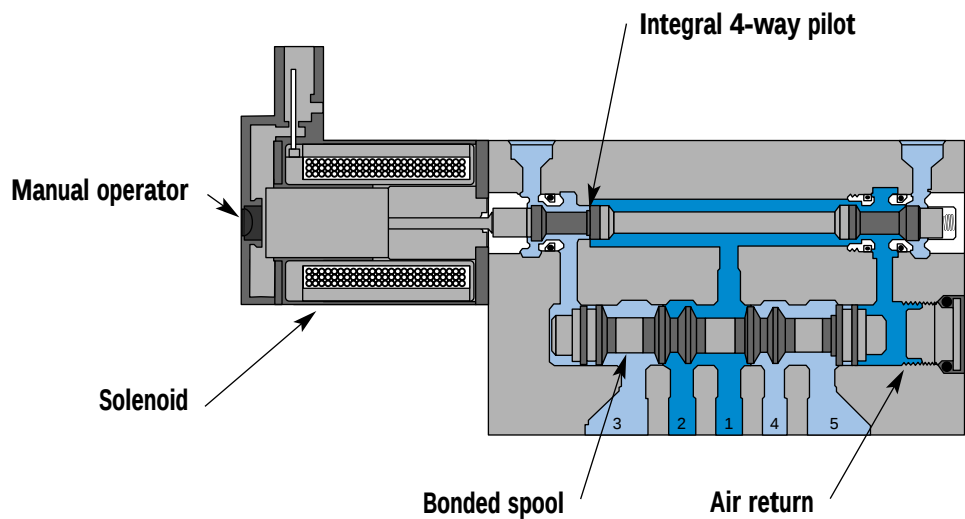
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ISO 1

ISO 2

ISO 3



SERIES FEATURES

- High force MACSOLENOID®.
- Integral 4-way pilot design.
- Single or dual pressure.
- Internal or external pilot.
- Single or double solenoid.
- 2 or 3 position.
- Rectified AC voltage.
- Latching solenoid technology.

Function	Port size	Flow (Max)	Individual mounting	Series
5 / 2, 5 / 3	G 1 / 8 "	1100 NI/min	Sub-base non "plug-in"	

OPERATIONAL BENEFITS

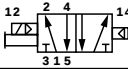
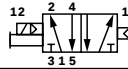
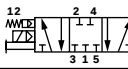
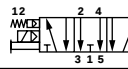
1. 4-way valve with 4-way integral pilot.
2. 16 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1100 NI/min).
4. Fast repeatable response times.
5. Maximum shifting forces in both directions.
6. Long life.



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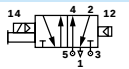
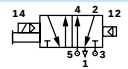
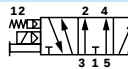
HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot air	5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Closed centre	5 / 3 Open centre
					
Valve less base	Internal	48A-AMA-000-Gxxx-xxx	48A-BMA-000-Gxxx-xxx	48A-EMA-000-Gxxx-xxx	48A-FMA-000-Gxxx-xxx
	External	48A-AMD-000-Gxxx-xxx	48A-BMD-000-Gxxx-xxx	48A-EMD-000-Gxxx-xxx	48A-FMD-000-Gxxx-xxx
G 1 / 8 "	Internal	48A-AMA-BAL-Gxxx-xxx	48A-BMA-BAL-Gxxx-xxx	48A-EMA-BAL-Gxxx-xxx	48A-FMA-BAL-Gxxx-xxx
	External	48A-AMD-BAM-Gxxx-xxx	48A-BMD-BAM-Gxxx-xxx	48A-EMD-BAM-Gxxx-xxx	48A-FMD-BAM-Gxxx-xxx

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DUAL PRESSURE MODELS

Port size	Pilot air		5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Pressure centre
					
Valve less base	Internal	Supply #3 port	48A-CMB-000-Gxxx-xxx	48A-DMB-000-Gxxx-xxx	48A-HMB-000-Gxxx-xxx
		Supply #5 port	48A-CMC-000-Gxxx-xxx	48A-DMC-000-Gxxx-xxx	48A-HMC-000-Gxxx-xxx
	External		48A-CMD-000-Gxxx-xxx	48A-DMD-000-Gxxx-xxx	48A-HMD-000-Gxxx-xxx
G 1 / 8 "	Internal	Supply #3 port	48A-CMB-BAL-Gxxx-xxx	48A-DMB-BAL-Gxxx-xxx	48A-HMB-BAL-Gxxx-xxx
		Supply #5 port	48A-CMC-BAL-Gxxx-xxx	48A-DMC-BAL-Gxxx-xxx	48A-HMC-BAL-Gxxx-xxx
	External		48A-CMD-BAM-Gxxx-xxx	48A-DMD-BAM-Gxxx-xxx	48A-HMD-BAM-Gxxx-xxx

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ISO 1
ISO 2
ISO 3

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
DC	24 V~/1,8W	B	60 cm	2	Locking	BT	Flying leads with light
DD	24 V~/2,5W	C	90 cm			KA	Mini connector
DF	24 V~/4,0W					KT	Mini connector with light
						KD	Mini connector with rectifier & light & ground

* Click here for other options available.
Latching solenoid also available, click here.
Note : AC voltage requires connector with rectifier.
Other options available for the 48 series valves, click here.

TECHNICAL DATA

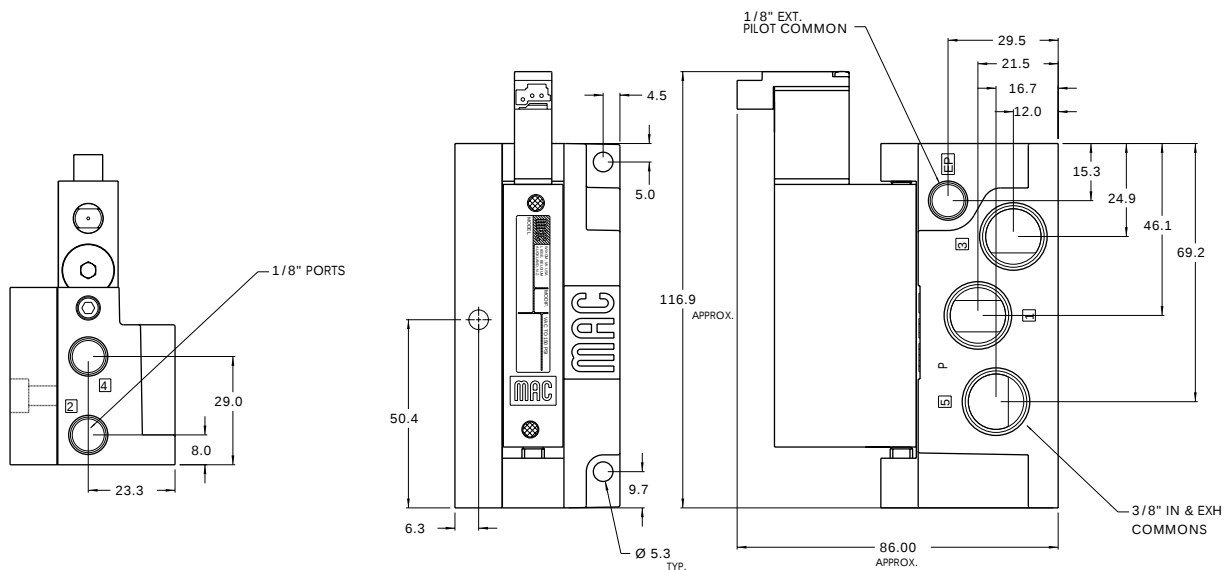
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot: 2 pos.: 1,3 to 8 bar - 3 pos.: 2,3 to 8 bar External pilot: vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar - 3 position : 2,3 to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	6,0 mm
Flow (at 6 bar, ΔP=1bar) :	1/8" side ports: 1000 NI/min (Cv 1,0) – 1/8" bottom ports : 1100 NI/min (Cv 1.1)
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 : 6 ms De-energize : 6 ms

Options :

- NPTF threads • Sandwich Flow controls: FC48A-BB
- Sandwich regulator: see "regulators" section

DIMENSIONS

Dimensions shown are metric (mm)



Function	Port size	Flow (Max)	Individual mounting	Series
5 / 2, 5 / 3	G 1 / 8 "	1100 NI / min	Sub-base "plug-in"	

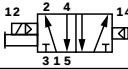
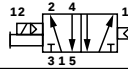
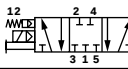
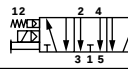
OPERATIONAL BENEFITS

1. 4-way valve with 4-way integral pilot.
2. 16 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1100 NI/min).
4. Fast repeatable response times.
5. Maximum shifting forces in both directions.
6. Long life.

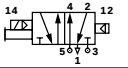
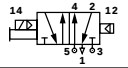
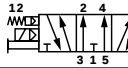


HOW TO ORDER

SINGLE PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS)

Port size	Pilot air	5 / 2 Single solenoid	5 / 3 Double solenoid	5 / 3 Closed centre	5 / 3 Open centre
					
Valve less base	Internal	48A-AMA-000-GxxP-xxx	48A-BME-000-GxxP-xGA	48A-EME-000-GxxP-xGA	48A-FME-000-GxxP-xGA
	External	48A-AMD-000-GxxP-xxx	48A-BMH-000-GxxP-xGA	48A-EMH-000-GxxP-xGA	48A-FMH-000-GxxP-xGA
G 1 / 8 "	Internal	48A-AMA-BAA-GxxP-xxx	48A-BME-BAC-GxxP-xGA	48A-EME-BAC-GxxP-xGA	48A-FME-BAC-GxxP-xGA
	External	48A-AMD-BAB-GxxP-xxx	48A-BMH-BAD-GxxP-xGA	48A-EMH-BAD-GxxP-xGA	48A-FMH-BAD-GxxP-xGA

DUAL PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS)

Port size	Pilot air	5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Pressure centre
				
Valve less base	Internal	Supply #3 port	48A-CMB-000-GxxP-xxx	48A-DMF-000-GxxP-xGA
		Supply #5 port	48A-CMC-000-GxxP-xxx	48A-DMG-000-GxxP-xGA
	External	Supply #3 port	48A-CMD-000-GxxP-xxx	48A-DMH-000-GxxP-xGA
		Supply #5 port	48A-CME-000-GxxP-xxx	48A-DMJ-000-GxxP-xGA
M 5	Internal	Supply #3 port	48A-CMB-BAA-GxxP-xxx	48A-DMF-BAC-GxxP-xGA
		Supply #5 port	48A-CMC-BAA-GxxP-xxx	48A-DMG-BAC-GxxP-xGA
	External	Supply #3 port	48A-CMD-BAB-GxxP-xxx	48A-DMH-BAD-GxxP-xGA
		Supply #5 port	48A-CME-BAB-GxxP-xxx	48A-DMJ-BAD-GxxP-xGA

STANDARD SOLENOID OPERATOR ►

G **xx** P-**xxx** *

xx	Voltage	x	Manual operator	xx	Electrical connection
AA	120 V~/2,5W	1	Non-locking	GA	Double solenoid & 3 position models Base plug-in
DC	24 V~/1,8W	2	Locking	DJ	Single solenoid models Base plug-in
DD	24 V~/2,5W			DT	Base plug-in with LED light
DF	24 V~/4,0W			DD	Base plug-in with rectifier & light & ground

* Click here for other options available.
Latching solenoid also available, click here.
Note : AC voltage requires connector with rectifier - single solenoid only.
Other options available for the 48 series valves, click here.

TECHNICAL DATA

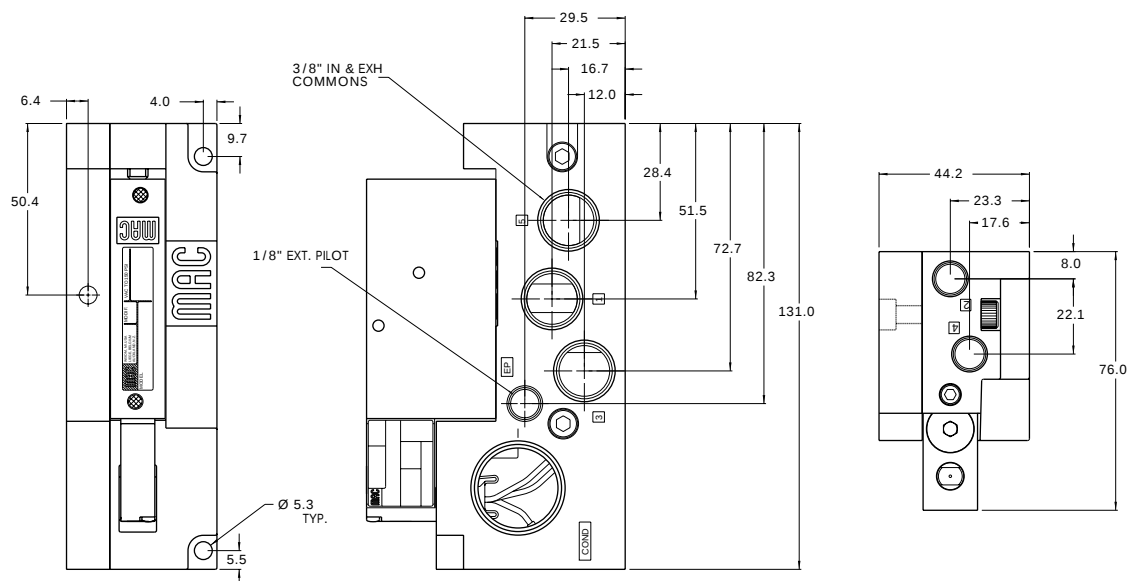
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot: 2 pos.: 1,3 to 8 bar - 3 pos.: 2,3 to 8 bar External pilot: vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar - 3 position : 2,3 to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	6,0 mm
Flow (at 6 bar, ΔP=1bar) :	1/8" side ports: 1000 NI/min (Cv 1,0) – 1/8" bottom ports : 1100 NI/min (Cv 1.1)
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 : 6 ms De-energize : 6 ms

Options :

- NPTF threads • Sandwich Flow controls: FC48A-AB
- Sandwich regulator: see "regulators" section

DIMENSIONS

Dimensions shown are metric (mm)



Function	Port size	Flow (Max)	Manifold mounting	Series
5 / 2, 5 / 3	G 1 / 8 "	1100 NI / min	Manifold base non "plug-in"	

OPERATIONAL BENEFITS

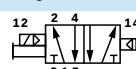
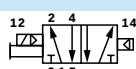
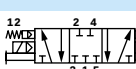
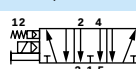
1. 4-way valve with 4-way integral pilot.
2. 16 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1100 NI/min).
4. Fast repeatable response times.
5. Maximum shifting forces in both directions.
6. Long life.



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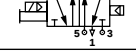
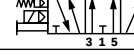
HOW TO ORDER

SINGLE PRESSURE MODELS (MIDDLE STATION MANIFOLDS WITH SIDE PORTS)

Port size	Pilot air	5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Closed centre	5 / 3 Open centre
					
Valve less base	Internal	48A-AMA-000-Gxxx-xxx	48A-BMA-000-Gxxx-xxx	48A-EMA-000-Gxxx-xxx	48A-FMA-000-Gxxx-xxx
	External	48A-AMD-000-Gxxx-xxx	48A-BMD-000-Gxxx-xxx	48A-EMD-000-Gxxx-xxx	48A-FMD-000-Gxxx-xxx
G 1 / 8 "	Internal	48A-AMA-BJL-Gxxx-xxx	48A-BMA-BJL-Gxxx-xxx	48A-EMA-BJL-Gxxx-xxx	48A-FMA-BJL-Gxxx-xxx
	External	48A-AMD-BJM-Gxxx-xxx	48A-BMD-BJM-Gxxx-xxx	48A-EMD-BJM-Gxxx-xxx	48A-FMD-BJM-Gxxx-xxx

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48

DUAL PRESSURE MODELS (MIDDLE STATION MANIFOLDS WITH SIDE PORTS)

Port size	Pilot air		5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Pressure centre
					
Valve less base	Internal	Supply #3 port	48A-CMB-000-Gxxx-xxx	48A-DMB-000-Gxxx-xxx	48A-HMB-000-Gxxx-xxx
		Supply #5 port	48A-CMC-000-Gxxx-xxx	48A-DMC-000-Gxxx-xxx	48A-HMC-000-Gxxx-xxx
	External		48A-CMD-000-Gxxx-xxx	48A-DMD-000-Gxxx-xxx	48A-HMD-000-Gxxx-xxx
G 1 / 8 "	Internal	Supply #3 port	48A-CMB-BJL-Gxxx-xxx	48A-DMB-BJL-Gxxx-xxx	48A-HMB-BJL-Gxxx-xxx
		Supply #5 port	48A-CMC-BJL-Gxxx-xxx	48A-DMC-BJL-Gxxx-xxx	48A-HMC-BJL-Gxxx-xxx
	External		48A-CMD-BJM-Gxxx-xxx	48A-DMD-BJM-Gxxx-xxx	48A-HMD-BJM-Gxxx-xxx

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ISO 1
ISO 2
ISO 3

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
DC	24 V~/1,8W	B	60 cm	2	Locking	BT	Flying leads with light
DD	24 V~/2,5W	C	90 cm			KA	Mini connector
DF	24 V~/4,0W					KT	Mini connector with light
						KD	Mini connector with rectifier & light & ground

* Click here for other options available.

Latching solenoid also available, click here.

Note : - AC voltage requires connector with rectifier.

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

Other options available for the 48 series valves, click here.

TECHNICAL DATA

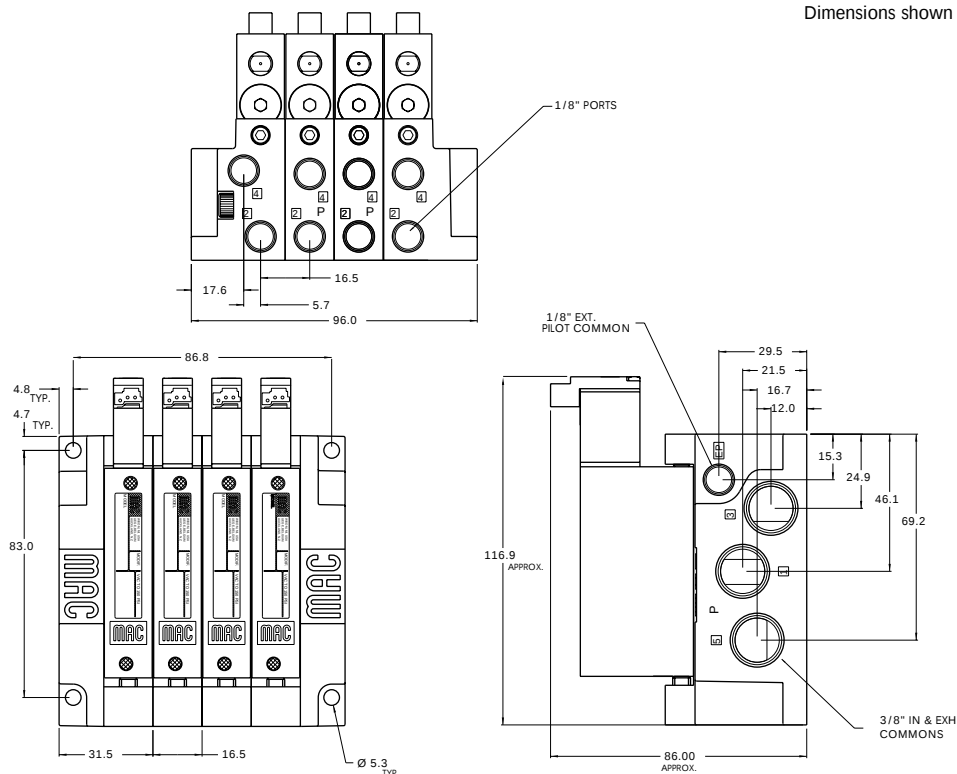
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot: 2 pos.: 1,3 to 8 bar - 3 pos.: 2,3 to 8 bar External pilot: vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar - 3 position : 2,3 to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	6,0 mm
Flow (at 6 bar, ΔP=1bar) :	1/8" side ports: 1000 NI/min (Cv 1,0) – 1/8" bottom ports : 1100 NI/min (Cv 1.1)
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 : 6 ms
(with 4 W coil)	De-energize : 6 ms

Options :

- NPTF threads • Sandwich flow controls: FC48A-BB
- Sandwich regulator: see "regulators" section
- Valve blanking plate: M-48004 • Isolator disk for inlet/exhaust: 28471

DIMENSIONS

Dimensions shown are metric (mm)



Consult "Precautions" before use, installation or service of MAC Valves..

Function	Port size	Flow (Max)	Manifold mounting	Series
5 / 2, 5 / 3	G 1 / 8 "	1100 NI/min	Manifold base "plug-in"	

OPERATIONAL BENEFITS

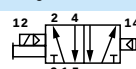
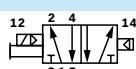
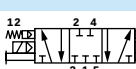
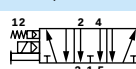
1. 4-way valve with 4-way integral pilot.
2. 16 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1100 NI/min).
4. Fast repeatable response times.
5. Maximum shifting forces in both directions.
6. Long life.



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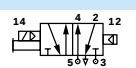
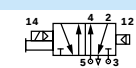
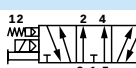
HOW TO ORDER

SINGLE PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS)

Port size	Pilot air	5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Closed centre	5 / 3 Open centre
					
Valve less base	Internal	48A-AMA-000-GxxP-xxx	48A-BME-000-GxxP-xGA	48A-EME-000-GxxP-xGA	48A-FME-000-GxxP-xGA
	External	48A-AMD-000-GxxP-xxx	48A-BMH-000-GxxP-xGA	48A-EMH-000-GxxP-xGA	48A-FMH-000-GxxP-xGA
M 5	Internal	48A-AMA-BJA-GxxP-xxx	48A-BME-BJC-GxxP-xGA	48A-EME-BJC-GxxP-xGA	48A-FME-BJC-GxxP-xGA
	External	48A-AMD-BJB-GxxP-xxx	48A-BMH-BJD-GxxP-xGA	48A-EMH-BJD-GxxP-xGA	48A-FMH-BJD-GxxP-xGA

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48

DUAL PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS)

Port size	Pilot air	5 / 2 Single solenoid	5 / 2 Double solenoid	5 / 3 Pressure centre
				
Valve less base	Internal	Supply #3 port	48A-CMB-000-GxxP-xxx	48A-DMF-000-GxxP-xGA
		Supply #5 port	48A-CMC-000-GxxP-xxx	48A-DMG-000-GxxP-xGA
	External		48A-CMD-000-GxxP-xxx	48A-DMH-000-GxxP-xGA
				48A-HMF-000-GxxP-xGA
M 5	Internal	Supply #3 port	48A-CMB-BJC-GxxP-xxx	48A-DMF-BJC-GxxP-xGA
		Supply #5 port	48A-CMC-BJC-GxxP-xxx	48A-DMG-BJC-GxxP-xGA
	External		48A-CMD-BJD-GxxP-xxx	48A-DMH-BJD-GxxP-xGA
				48A-HMH-BJD-GxxP-xGA

400
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ISO 1
ISO 2
ISO 3

Above numbers are middle station manifold with side ports

STANDARD SOLENOID OPERATOR >

G **XX** P-**XXX***

XX	Voltage	X	Manual operator	XX	Electrical connection
AA	120 V~/2,5W	1	Non-locking	GA	Double solenoid & 3 position models Base plug-in
DC	24 V~/1,8W	2	Locking	DJ	Single solenoid models Base plug-in
DD	24 V~/2,5W			DT	Base plug-in with LED light
DF	24 V~/4,0W			DD	Base plug-in with rectifier & light & ground

* Click here for other options available.
Latching solenoid also available, click here.
Note : - AC voltage requires connector with rectifier.
- Manifold assemblies consist of (1) left end manifold, (1) right end manifold, and middle station manifolds (options "J" or "K").
Other options available for the 48 series valves, click here.

TECHNICAL DATA

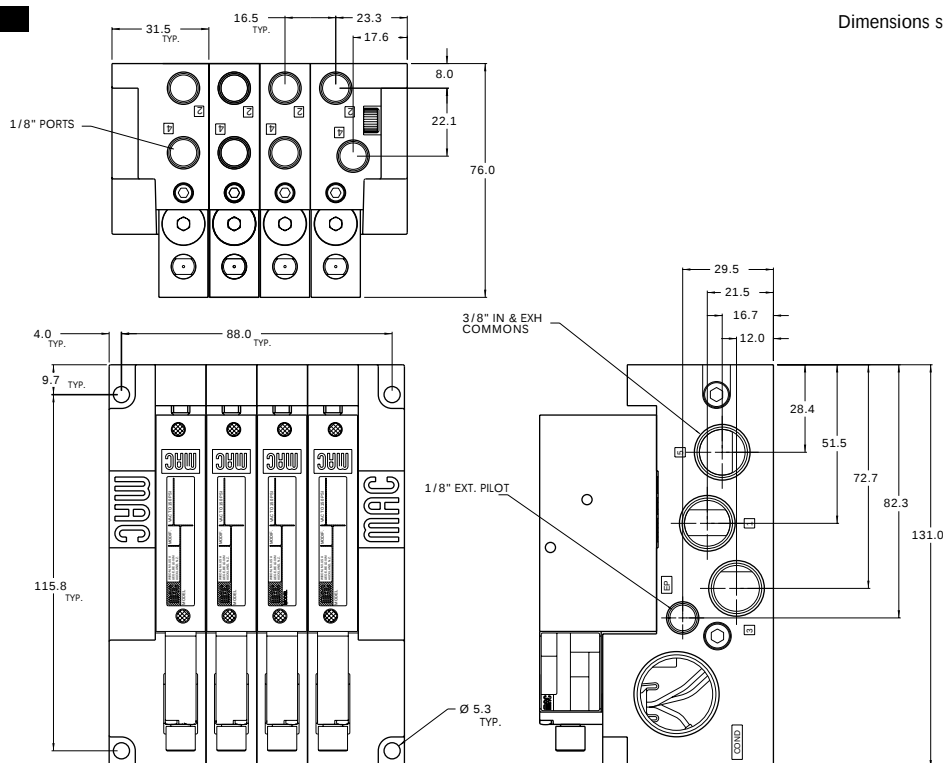
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot: 2 pos.: 1,3 to 8 bar - 3 pos.: 2,3 to 8 bar External pilot: vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar - 3 position : 2,3 to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	6,0 mm
Flow (at 6 bar, ΔP=1bar) :	1/8" side ports: 1000 NI/min (Cv 1,0) – 1/8" bottom ports : 1100 NI/min (Cv 1.1)
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 : 6 ms De-energize : 6 ms

Options :

- NPTF threads • Sandwich flow controls: FC48A-AB
- Sandwich regulator: see "regulators" section
- Valve blanking plate: M-48004 • Isolator disk for inlet/exhaust: 28471
- Plug-in wire protector: 24180

DIMENSIONS

Dimensions shown are metric (mm)





Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow (Max)	Individual/Manifold mounting	Series
5 / 2	G 1 / 8 "	1100 NI / min	Sub-base/ manifold base non "plug-in" with latching solenoid	

OPERATIONAL BENEFITS

1. 4-way valve with 4-way integral pilot.
2. 16 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1100 NI/min).
4. Fast repeatable response times.
5. Maximum shifting forces in both directions.
6. Long life.



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ISO 1

ISO 2

ISO 3

HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot air	5 / 2 Single pressure
Valve less base	Internal	48A-AMA-000-Lxxx-xxx
	External	48A-AMD-000-Lxxx-xxx
G 1 / 8 "	Internal	48A-AMA-BAL-Lxxx-xxx
	External	48A-AMD-BAM-Lxxx-xxx

DUAL PRESSURE MODELS

Port size	Pilot air	5 / 2 Dual pressure
Valve less base	Internal	Supply #3 port
		Supply #5 port
	External	
G 1 / 8 "	Internal	Supply #3 port
		Supply #5 port
	External	

LATCHING SOLENOID ➤

XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
DF	24 VDC/4.0W	A	45 cm	0	No operator	BA	2 Wire flying leads
HA	24 VDC/1.95W	B	60 cm			BJ	4 Wire flying leads
		C	90 cm			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.

Note : Manifold assemblies consist of (1) left end manifold, (1) right end manifold, and middle station manifolds (options "J" or "K").
Other options available for the 48 series valves, click here.

TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot: 2 pos.: 1,3 to 8 bar - 3 pos.: 2,3 to 8 bar External pilot: vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar - 3 position : 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 :	6,0 mm
Flow (at 6 bar, ΔP=1bar) :	1/8" side ports: 1000 NI/min (Cv 1,0) – 1/8" bottom ports : 1100 NI/min (Cv 1.1)
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 : 6 ms De-energize : 6 ms

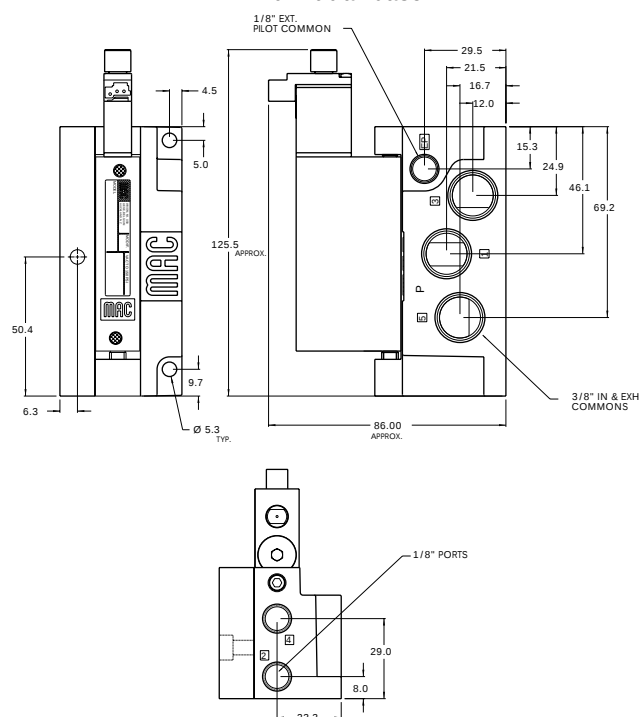
Options :

- NPTF threads • Sandwich flow controls: FC48A-BB
- Sandwich regulator: see "regulators" section
- Valve blanking plate: M-48004 • Isolator disk for inlet/exhaust: 28471

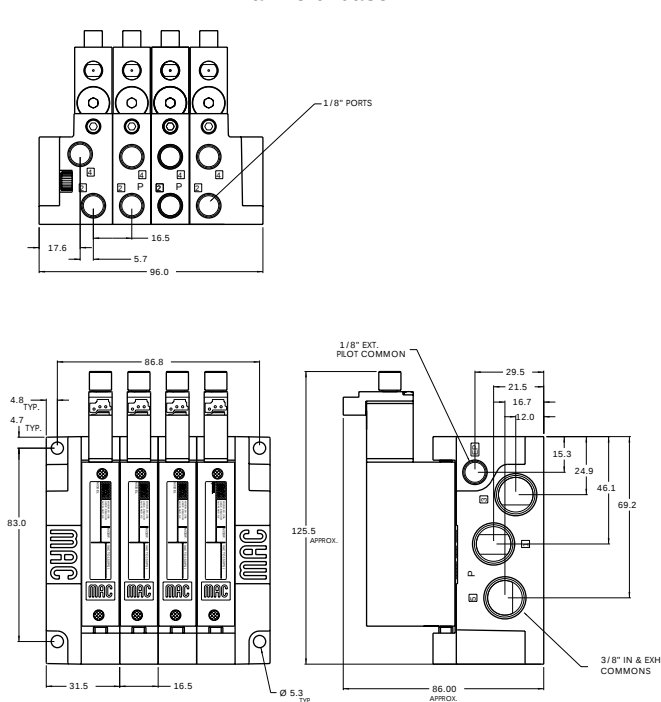
DIMENSIONS

Dimensions shown are metric (mm)

Individual base



Manifold base



Consult "Precautions" before use, installation or service of MAC Valves..

Function	Port size	Flow (Max)	Individual/Manifold mounting	Series
5 / 2	G 1 / 8 "	1 000 NI / min	Sub-base/ manifold base "plug-in" with latching solenoid	

OPERATIONAL BENEFITS

1. 4-way valve with 4-way integral pilot.
2. 16 mm valve (stacks on 16.5 mm centers).
3. High flow (up to 1100 NI/min).
4. Fast repeatable response times.
5. Maximum shifting forces in both directions.
6. Long life.



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3 2

3 7

3 8

5 2

6 7

4 4

4 6

4 2

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4 8

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9 2

9 3

ISO 1

ISO 2

ISO 3

HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot air	5 / 2 Single pressure
		
Valve less base	Internal	48A-AMA-000-LxxP-xxx
	External	48A-AMD-000-LxxP-xxx
G 1 / 8 "	Internal	48A-AMA-BAA-LxxP-xxx
	External	48A-AMD-BAB-LxxP-xxx

DUAL PRESSURE MODELS

Port size	Pilot air		5 / 2 Dual pressure
Valve less base	Internal	Supply #3 port	48A-CMB-000-LxxP-xxx
		Supply #5 port	48A-CMC-000-LxxP-xxx
	External		48A-CMD-000-LxxP-xxx
G 1 / 8 "	Internal	Supply #3 port	48A-CMB-BAA-LxxP-xxx
		Supply #5 port	48A-CMC-BAA-LxxP-xxx
	External		48A-CMD-BAB-LxxP-xxx

LATCHING SOLENOID ➤

L XX P-xxx*

<u>XX</u>	Voltage	<u>X</u>	Manual operator	<u>XX</u>	Electrical connection**
<u>DF</u>	24 VDC/4,0W	<u>0</u>	No operator	<u>DA</u>	Plug-in
<u>DN</u>	12 VDC/4,0W			<u>EA</u>	Plug-in 3 PIN (Polarity Switching Cover)
<u>HA</u>	24 VDC/1,95W				
<u>HE</u>	12 VDC/1,95W				

* Click here for other options available.

** For latching solenoid 2 and 4 wire, use electrical connector DA, DB, DC or DD. For 3 wire latching, use the "EA" connector. Other options available for the 48 series valves, click here.

TECHNICAL DATA

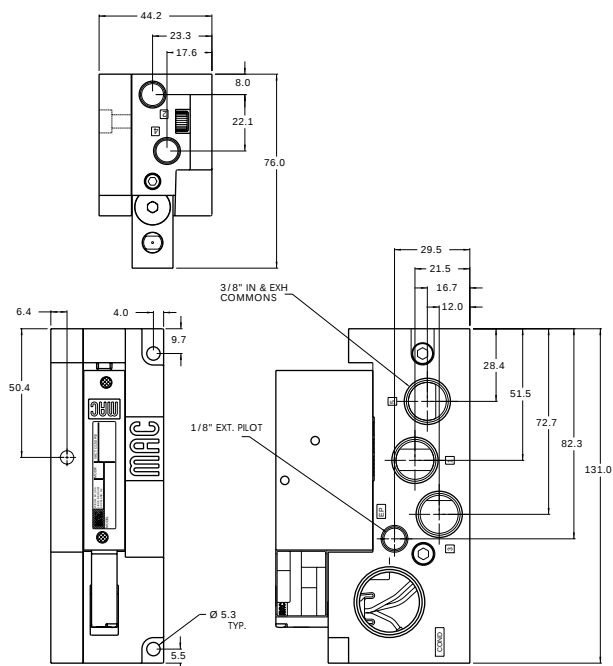
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot: 2 pos.: 1,3 to 8 bar - 3 pos.: 2,3 to 8 bar External pilot: vacuum to 8 bar
Pilot pressure :	2 position : 1,3 to 8 bar - 3 position : 2,3 to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	6,0 mm
Flow (at 6 bar, ΔP=1bar) :	1/8" side ports: 1000 NI/min (Cv 1,0) – 1/8" bottom ports : 1100 NI/min (Cv 1.1)
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 : 6 ms De-energize : 6 ms

Options :

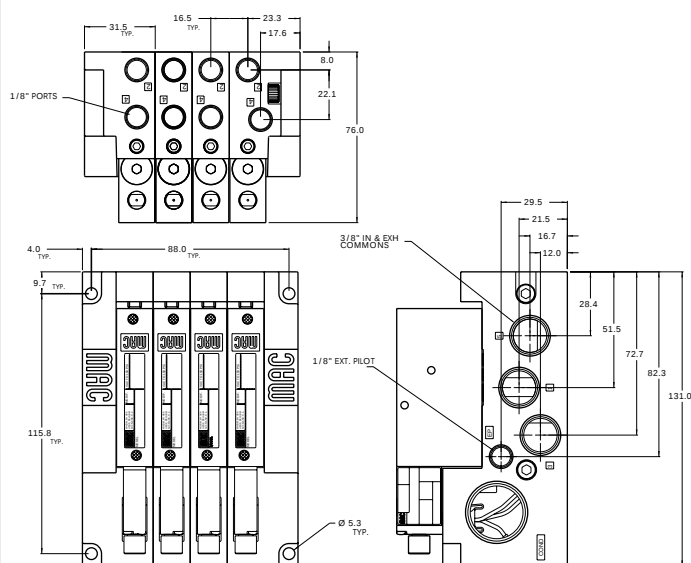
- NPTF threads • Sandwich flow controls: FC48A-AB
- Sandwich regulator: see "regulators" section
- Valve blanking plate: M-48004 • Isolator disk for inlet/exhaust: 28471
- Plug-in wire protector : 24180

DIMENSIONS

Individual base



Manifold base



OPTIONS FOR NON PLUG-IN VALVES	3 4
Base type :	3 6
Individual base	
48A-XXX-X A X-Gxxx-xxx	
A Individual base – Side port	3 2
B Individual base – Bottom port	3 7
Manifold base	3 8
48A-XXX-X J X-Gxxx-xxx	
J Manifold base – Side ports	5 2
K Manifold base – Bottom ports	6 7
L Left end manifold base – Side ports	4 4
M Left end manifold base – Bottom ports	4 6
N Right end manifold base – Side ports	4 2
P Right end manifold base – Bottom ports	4 7
Universal spool	
48A-RXX-XXX-Gxxx-xxx	
R 2 position single solenoid universal spool	4 8
S 2 position double solenoid universal spool	4 0 0
Base only :	
48A-000-XXX (i.e. 48A-000-BAL) - Individual base	9 2
48A-000-XXX (i.e. 48A-000-BJL) - Manifold base	9 3
Pilot style :	
48A-X M X-XXX-Gxxx-xxx	
M Pilot exhaust muffled	ISO 1
R Pilot exhaust piped (M5)	ISO 2
U Pilot exhaust to main exhaust	ISO 3
Base / Manifold configurations for LATCHING SOLENOID VALVES :	
48A-xxx-x A x-Lxxx-xxx	
A Individual base – Side port	
B Individual base – Bottom port	
J Manifold base – Side ports	
K Manifold base – Bottom ports	
L Left end manifold base - Side ports	
M Left end manifold base - Bottom ports	
N Right end manifold base - Side ports	
P Right end manifold base - Bottom ports	

OPTIONS FOR PLUG-IN VALVES

Base type :

Individual base

48A-XXX-X**A**X-GxxP-xxx

- A** Individual base – Side port
- B** Individual base – Bottom port

Manifold base

48A-XXX-X**J**X-GxxP-xxx

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

Universal spool

48A-RXX-XXX-GxxP-xxx

- R** 2 position single solenoid universal spool
- S** 2 position double solenoid universal spool

Base only :

48A-000-XXX (i.e. 48A-000-BAA)

- Individual base wired for a single solenoid valve

48A-000-XXX (i.e. 42A-000-BJC)

- Manifold base wired for a double solenoid valve

For LED with diode (2 & 3 position double solenoid valves)

48A-XX**J**-XXX-GxxP-xGA

- J** Internal pilot single pressure
- K** Internal pilot dual pressure supply from #3 port
- L** Internal pilot dual pressure supply from #5 port
- M** External pilot

Pilot style :

48A-X**M**X-XXX-GxxP-xxx

- M** Pilot exhaust muffled
- R** Pilot exhaust piped (M5)
- U** Pilot exhaust to main exhaust

Base/Manifold configurations for LATCHING SOLENOID VALVES :

48A-xxx-x**A**x-LxxP-xxx

- A** Individual base – Side port
- B** Individual base – Bottom port
- J** Manifold base – Side ports
- K** Manifold base – Bottom ports
- L** Left end manifold base - Side ports
- M** Left end manifold base - Bottom ports
- N** Right end manifold base - Side ports
- P** Right end manifold base - Bottom ports

Base/Manifold options for int./ext. pilot for LATCHING SOLENOID VALVES :

48A-xxx-xx**A**-LxxP-xxx

- A** Plug-in Int. Pilot – 2 Wire Latching
- B** Plug-in Ext. Pilot – 2 Wire Latching
- C** Plug-in Int. Pilot – 3 Wire Latching
- D** Plug-in Ext. Pilot – 3 Wire Latching
- E** Plug-in Int. Pilot – 4 Wire Latching
- F** Plug-in Ext. Pilot – 4 Wire Latching