Handhabungstechnik
Motore & Getriebe
Pneumatik
Hydraulik
Systemlösungen

as-tec
Mechatronik GmbH

Produktkatalog

MAC 3/2 Wegeventile

Serie 36 - 1/8"

MAC®
VALVES

Über Uns

Die Firma **as-tec Mechatronik GmbH** ist ein herstellerunabhängiger Lieferant von Systemlösungen und Komponenten für pneumatische, hydraulische und elektrische Antriebs- und Steuerungstechnik.

Wir bieten unseren Kunden für ihre Projekte im Maschinen- und Anlagenbau, beziehungsweise für die Instandhaltung ihrer Fertigungseinrichtungen die am besten geeigneten Produkte aus unserem herstellerübergreifenden Produktportfolio.

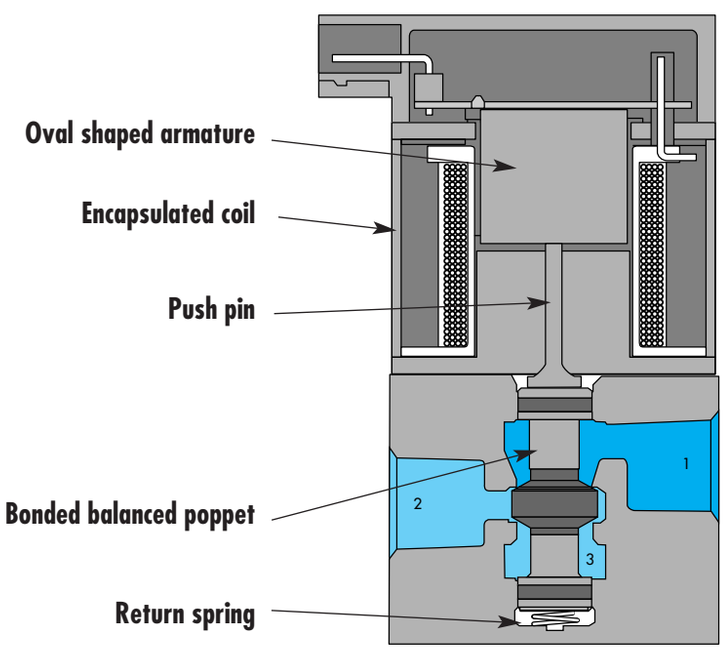
In unserer Werkstätte produzieren wir kundenspezifische Lösungen wie zum Beispiel Ventileinheiten, Schaltschränke und Sonderzylinder. Weiters halten wir sowohl Standardkomponenten als auch speziell für Kunden bevorratete Produkte auf Lager.

Individual mounting

Inline

Manifold mounting

Stacking | Manifold base "plug-in" | Manifold base "plug-in" with pressure regulators



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.

Consult "Precautions" page 407 before use, installation or service of MAC Valves.

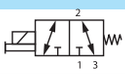
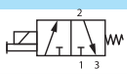
Series 36

Function	Port size	Flow [Max]	Individual mounting	Series
3/2	**G1/8"**	**300 Nl/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	Universal valve	NC only valve
		
G1/8"	36A-ACA-J XXX-XXX	36A-ACB-J XXX-XXX

SOLENOID OPERATOR ➤ J **XXX**-**XXX** * (-G) Add "G" for ground

XX	Voltage
AA	120V~/5,4W
DA	24V=/5,4W
DB	12V=/5,4W
DC	24V=/2,4W
DD	12V=/2,4W

X	Lead wire length
A	45 cm
B	60 cm
C	90 cm

X	Manual operator
1	Non-locking
2	Locking

XX	Electrical connection
BA	Flying leads
GA	MAC JAC solenoid plug-in
GB	MAC JAC solenoid plug-in with diode
GD	MAC JAC solenoid plug-in with light
GG	MAC JAC solenoid plug-in with rectifier

* Other options available, see page 393.

Note : - AC voltage requires connector with rectifier.
- With the MAC JAC, washdown capability is possible. Consult factory for washdown modification number.

Series 36

100% OF PRODUCTION TESTED 100%

WARRANTY 18 MONTHS

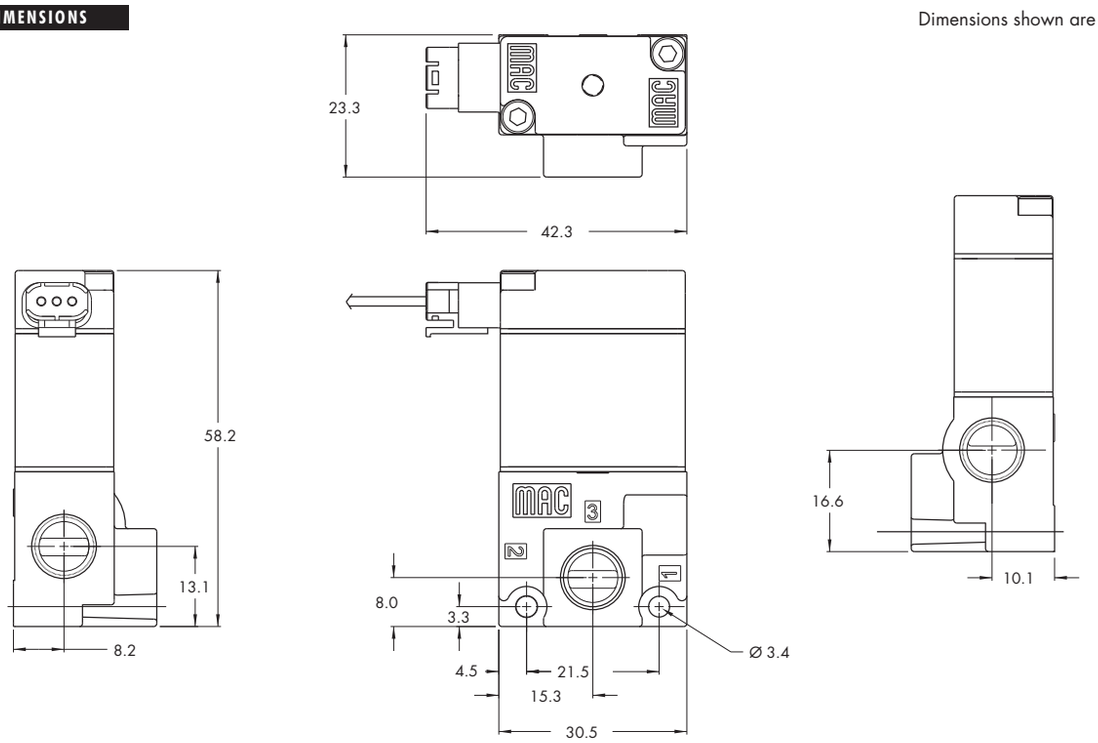
TECHNICAL DATA

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) :	G1/8" : 300 Nl/min (Cv 0 ,3)
Coil :	Epoxy encapsulated – Class A wires – 100% ED
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	5,4 W – 2,4 W – 1,0 W

Option : • NPTF threads

DIMENSIONS

Dimensions shown are metric (mm)



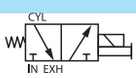
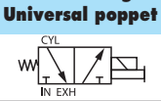
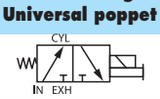
Consult "Precautions" page 407 before use, installation or service of MAC Valves.

Function	Port size	Flow [Max]	Manifold mounting	Series
3/2	**G1/8" - M5**	**300 Nl/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	NC only stacking	NC stacking Universal poppet	NO stacking Universal poppet
			
G1/8"	36A-SCB-J **XXX-XXX**	36A-SCC-J **XXX-XXX**	36A-SCD-J **XXX-XXX**
M5	36A-SDB-J **XXX-XXX**	36A-SDC-J **XXX-XXX**	36A-SDD-J **XXX-XXX**

SOLENOID OPERATOR ➤ J **XXX**-**XXX** * (-G) Add "G" for ground

XX	Voltage
AA	120V~/5,4W
DA	24V=/5,4W
DB	12V=/5,4W
DC	24V=/2,4W
DD	12V=/2,4W

X	Lead wire length
A	45 cm
B	60 cm
C	90 cm

X	Manual operator
1	Non-locking
2	Locking

XX	Electrical connection
BA	Flying leads
GA	MAC JAC solenoid plug-in
GB	MAC JAC solenoid plug-in with diode
GD	MAC JAC solenoid plug-in with light
GG	MAC JAC solenoid plug-in with rectifier

* Other options available, see page 393.
Note : - AC voltage requires connector with rectifier.
- With the MAC JAC, washdown capability is possible. Consult factory for washdown modification number.

End plate kit required (port size G1/4") : M-36001-01P.

BODY TYPE OPTIONS

36A-**S**CB-J**XXX**-**XXX**

S Stacking body
T Stacking body with bottom inlet

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ISO 01
ISO 02
ISO 1
ISO 2
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Series 36

100% OF PRODUCTION TESTED 100%

WARRANTY 18 MONTHS

TECHNICAL DATA

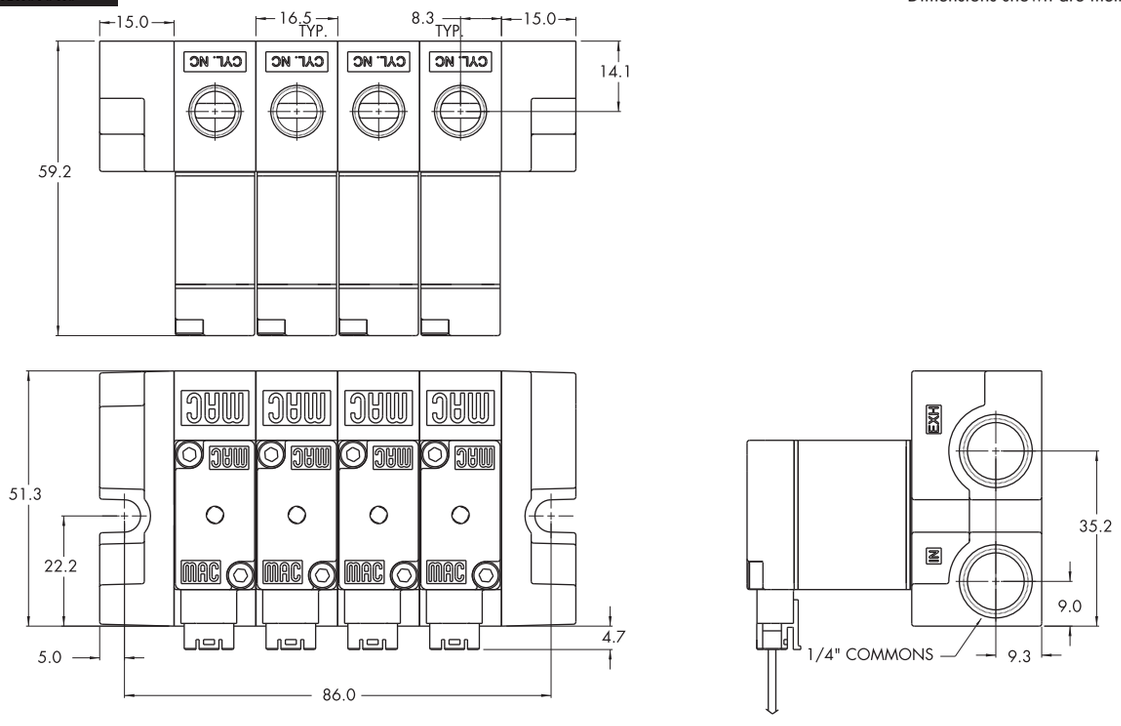
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	3,3 mm
Flow (at 6 bar, ΔP=1bar) :	G1/8" : 300 Nl/min (Cv 0 ,3) – M5 : 300 Nl/min (Cv 0,3)
Coil :	Epoxy encapsulated – Class A wires – 100% ED
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP54 (electrical connection)
Power :	5,4 W – 2,4 W – 1,0 W

Option : • NPTF threads

Spare parts : • Inlet & exhaust isolator plate : N-36001 • Inlet isolator : N-36002
• Exhaust isolator : N-36003 • Tie rod (x2) : 79411

DIMENSIONS

Dimensions shown are metric (mm)

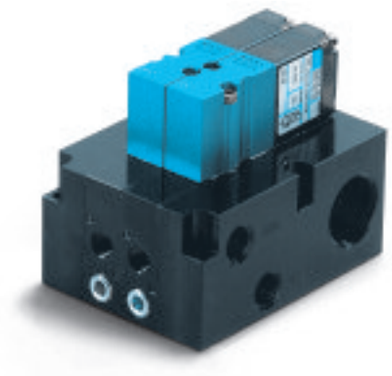


Consult "Precautions" page 407 before use, installation or service of MAC Valves.

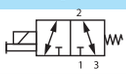
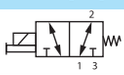
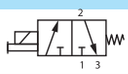
Function	Port size	Flow [Max]	Manifold mounting	Series
3/2	**G1/8"**	**300 Nl/min**	Manifold base "plug-in"	

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	Universal Valve Normally Closed	Universal Valve Normally Open	Normally Closed Only
			
Valve less base	36A-J00-00-J **xx**P-**xxx**	36A-K00-00-J **xx**P-**xxx**	36A-L00-00-J **xx**P-**xxx**
G1/8"	36A-JSC-AE-J **xx**P-**xxx**	36A-KSC-AF-J **xx**P-**xxx**	36A-LSC-AE-J **xx**P-**xxx**

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

XX	Voltage
AA	120V~/5,4W
DA	24V=/5,4W
DB	12V=/5,4W
DC	24V=/2,4W
DD	12V=/2,4W

X	Manual operator
1	Non-locking
2	Locking

XX	Electrical connection
FA	Base plug-in
FB	Base plug-in with diode
FG	Base plug-in with rectifier

* Other options available, see page 393.
Note : AC voltage requires connector with rectifier.

Example : Manifold base only : 36A-0SC-AC (Normally closed manifold base).

End plate quit required (port size G1/4") : M-46003-01P.

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ISO 01
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MAC

Series 36

100% OF PRODUCTION TESTED 100%

WARRANTY 18 MONTHS

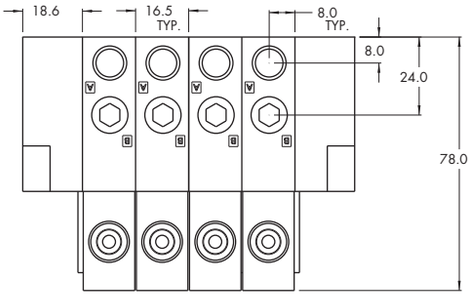
TECHNICAL DATA

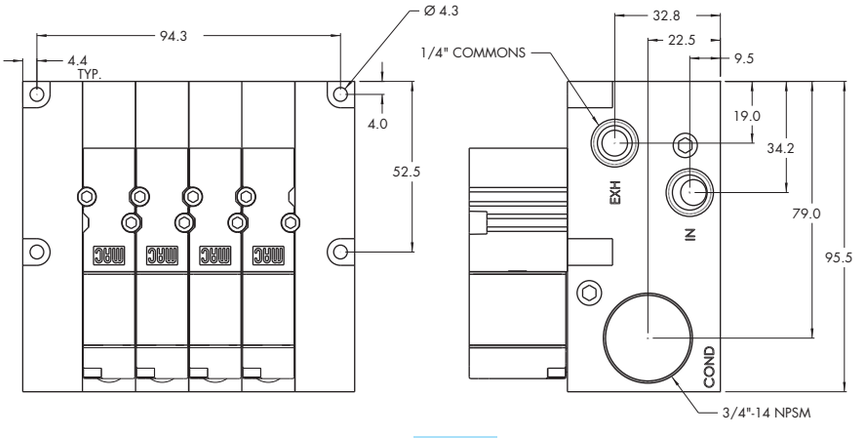
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	3,3 mm
Flow (at 6 bar, ΔP=1bar) :	1,8W : 200 Nl/min (Cv 0.20) – 2,4W : 200 Nl/min (Cv 0,20) – 5,4W : 300 Nl/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 :	5,4 W – 2,4 W – 1,8 W

Option : • 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)

Note: For Normally closed manifold the "E" port is plugged.
For Normally open manifold the "A" port is plugged.

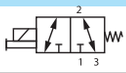
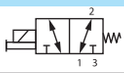
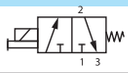
Consult "Precautions" page 407 before use, installation or service of MAC Valves.

Function	Port size	Flow [Max]	Manifold mounting	Series
3/2	**G1/8"**	**300 Nl/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.

HOW TO ORDER

Port size	Universal Valve Normally Closed	Universal Valve Normally Open	Normally Closed Only
			
Valve less base	36A-J00-00-J xxP-xxx	36A-K00-00-J xxP-xxx	36A-L00-00-J xxP-xxx
G1/8"	36A-JSC-AG-J xxP-xxx	36A-KSC-AH-J xxP-xxx	36A-LSC-AG-J xxP-xxx

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

XX	Voltage
AA	120V~/5,4W
DA	24V=/5,4W
DB	12V=/5,4W
DC	24V=/2,4W
DD	12V=/2,4W

X	Manual operator
1	Non-locking
2	Locking

XX	Electrical connection
FA	Base plug-in
FB	Base plug-in with diode
FG	Base plug-in with rectifier

* Other options available, see page 393.
Note : AC voltage requires connector with rectifier.

OPTIONS

36A-JSC-A**G**-Jxx P-xxx

- **G** NC manifold & regulator with slotted stem adjustment
- **S** NC manifold & regulator with locking slotted stem adjustment
- **J** NC manifold & regulator with knob adjustment
- **H** NO manifold & regulator with slotted stem adjustment
- **T** NO manifold & regulator with locking slotted stem adjustment
- **K** NO manifold & regulator with knob adjustment

Note : All manifold bases are only available with a bottom cylinder port.

Example : Manifold base only : 36A-0SC-AJ (Normally closed manifold base & regulator with knob).

End plate quit required (port size G1/4") : M-46003-01P.

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MAC

Series 36

100% OF PRODUCTION TESTED 100%

WARRANTY 18 MONTHS

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 Nl/min (Cv 0.20) – 2,4W : 200 Nl/min (Cv 0,20) – 5,4W : 300 Nl/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 :	5,4 W – 2,4 W – 1,8 W

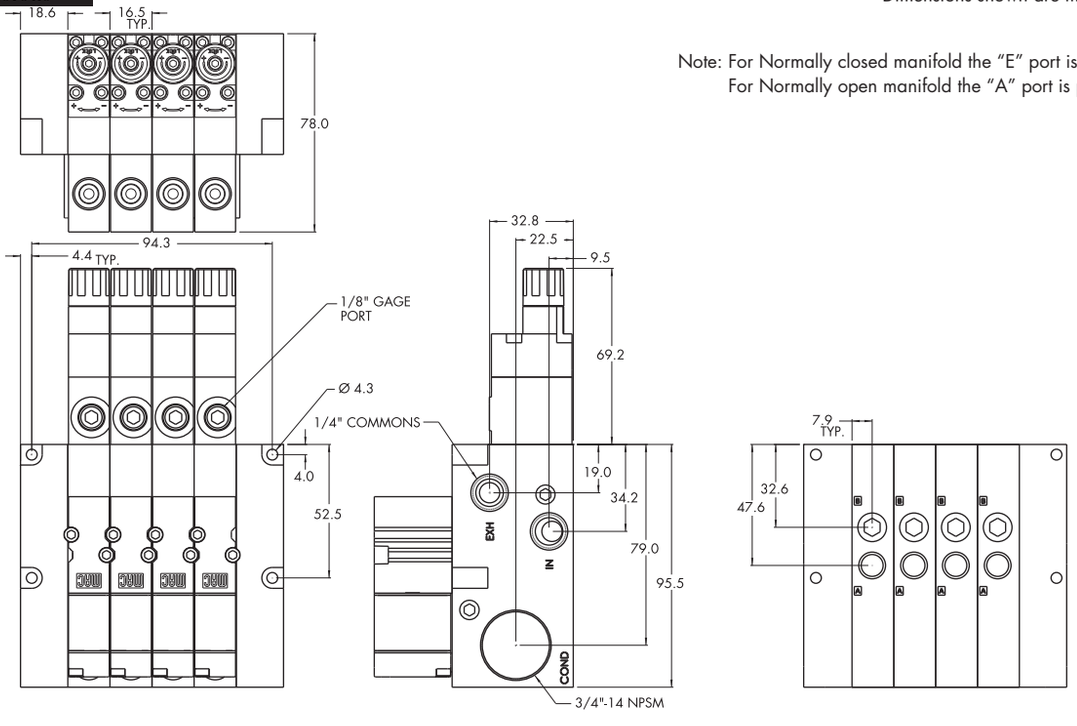
Option : • NPTF threads

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

DIMENSIONS

Dimensions shown are metric (mm)

Note: For Normally closed manifold the "E" port is plugged.
For Normally open manifold the "A" port is plugged.



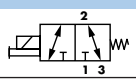
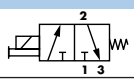
Consult "Precautions" page 407 before use, installation or service of MAC Valves.

Function	Port size	Flow (Max)	Individual mounting	Series
3/2	**1/8"**	**0.3 C_v**	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	Universal valve	NC only valve
		
1/8" NPTF	36A-AAA-J ***XXX-XXX***	36A-AAB-J ***XXX-XXX***

SOLENOID OPERATOR ➤

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

XX	Voltage
AA	120 VAC (5.4W)
DA	24 VDC (5.4W)
DB	12 VDC (5.4W)
DC	24 VDC (2.4W)
DD	12 VDC (2.4W)

X	Lead wire length
A	18"
B	24"
C	36"

X	Manual operator
1	Non-locking recessed
2	Locking recessed

XX	Electrical connection
BA	Flying leads
GA	MAC JAC solenoid plug-in
GB	MAC JAC solenoid plug-in with diode
GD	MAC JAC solenoid plug-in with light
GG	MAC JAC solenoid plug-in with rectifier

* Other options available, see page 317.
Note : - AC voltage requires connector with rectifier.
- With the MAC JAC, washdown capability is possible. Consult factory for washdown modification number.

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ISO 01
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MAC

Series 36

100% OF PRODUCTION TESTED 100%

WARRANTY 18 MONTHS

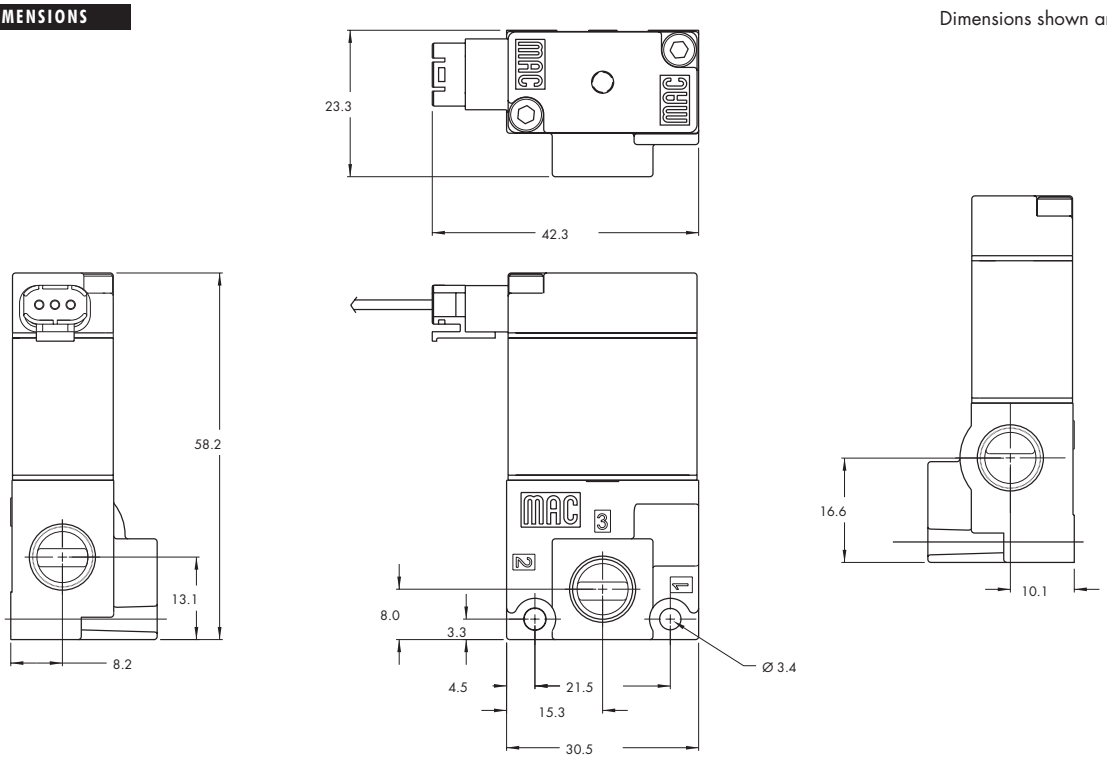
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to +50°C)
Flow :	1.8 Watt: (0.15 C_V), 2.4 Watt: (0.15 C_V), 5.4 Watt: (0.30 C_V)
Coil :	Class A wire (#22 AWG x 12), continuous duty
Voltage range :	-15% to +10% of nominal voltage
Protection :	Consult factory
Power :	5.4 W – 2.4 W – 1.8 W

Option : • BSPP threads

DIMENSIONS

Dimensions shown are metric (mm)



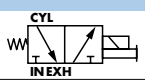
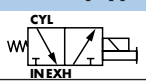
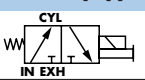
Consult "Precautions" page 327 before use, installation or service of MAC Valves..

Function	Port size	Flow (Max)	Individual mounting	Series
3/2	**1/8" - # 10-32**	**0.3 C_v**	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	NC only stacking	NC stacking Universal poppet	NO stacking Universal poppet
			
1/8" NPTF	36A-SAB-J ***XXX-XXX***	36A-SAC-J ***XXX-XXX***	36A-SAD-J ***XXX-XXX***
# 10-32	36A-SBB-J ***XXX-XXX***	36A-SBC-J ***XXX-XXX***	36A-SBD-J ***XXX-XXX***

SOLENOID OPERATOR ➤ J ***XX***-***X***-***XXX**** (-G) Add "G" for ground

XX	Voltage
AA	120 VAC (5.4W)
DA	24 VDC (5.4W)
DB	12 VDC (5.4W)
DC	24 VDC (2.4W)
DD	12 VDC (2.4W)

X	Lead wire length
A	18"
B	24"
C	36"

X	Manual operator
1	Non-locking recessed
2	Locking recessed

XX	Electrical connection
BA	Flying leads
GA	MAC JAC solenoid plug-in
GB	MAC JAC solenoid plug-in with diode
GD	MAC JAC solenoid plug-in with light
GG	MAC JAC solenoid plug-in with rectifier

* Other options available, see page 317.
Note : - AC voltage requires connector with rectifier.
- With the MAC JAC, washdown capability is possible. Consult factory for washdown modification number.
End plate kit required (port size 1/4") : M-36001-01.

BODY TYPE OPTIONS

36A-**S**AB-J***XXX-XXX***

S Stacking body
T Stacking body with bottom inlet

MAC

Series 36

100% OF PRODUCTION TESTED 100%

WARRANTY 18 MONTHS

TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to +50°C)
Flow :	1.8 Watt: (0.15 C_V), 2.4 Watt: (0.15 C_V), 5.4 Watt: (0.30 C_V)
Coil :	Class A wire (#22 AWG x 12), continuous duty
Voltage range :	-15% to +10% of nominal voltage
Protection :	Consult factory
Power :	5.4 W – 2.4 W – 1.8 W

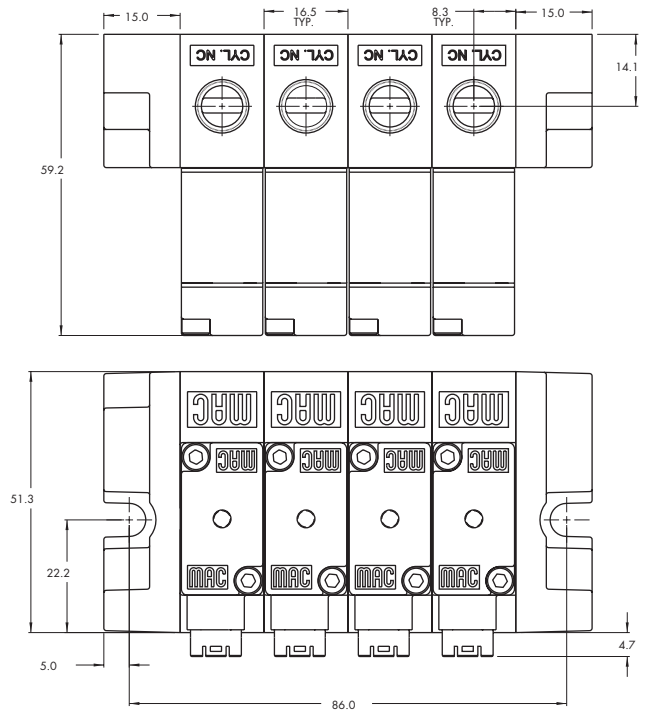
Option : • BSPP threads

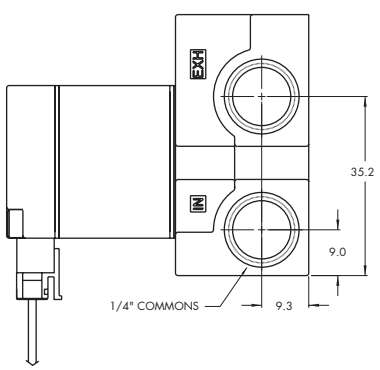
Spare parts : • Inlet & exhaust isolator plate : N-36001 • Inlet isolator : N-36002
• Exhaust isolator : N-36003 • Tie rod (x2) : 79411

DIMENSIONS

Dimensions shown are metric (mm)

Note: Isolator adds 2.5 mm to length of stack.





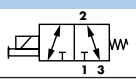
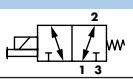
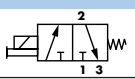
Consult "Precautions" page 327 before use, installation or service of MAC Valves..

Function	Port size	Flow (Max)	Individual mounting	Series
3/2	**1/8" - 5/32** Pressed-in tube receptacle	**0.3 C_v**	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	Universal Valve Normally Closed	Universal Valve Normally Open	Normally Closed Only
			
Valve less base	36A-J00-00-J ***xx***P-***xxx***	36A-K00-00-J ***xx***P-***xxx***	36A-L00-00-J ***xx***P-***xxx***
1/8" NPTF	36A-JSA-AE-J ***xx***P-***xxx***	36A-KSA-AF-J ***xx***P-***xxx***	36A-LSA-AE-J ***xx***P-***xxx***
5/32 tube receptacle	36A-JSF-AE-J ***xx***P-***xxx***	36A-KSF-AF-J ***xx***P-***xxx***	36A-LSF-AE-J ***xx***P-***xxx***

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

XX	**Voltage**
AA	120 VAC (5.4W)
DA	24 VDC (5.4W)
DB	12 VDC (5.4W)
DC	24 VDC (2.4W)
DD	12 VDC (2.4W)

X	**Manual operator**
1	Non-locking recessed
2	Locking recessed

XX	**Electrical connection**
FA	Base plug-in
FB	Base plug-in with diode
FG	Base plug-in with rectifier

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

Example : Manifold base only : 36A-0SA-AE (Normally closed manifold base).

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

33
34
36
32
37
38
52
67
69
44
46
42
47
48P
48
400
92
93
ISO 01
ISO 02
ISO 1
ISO 2
ISO 3

MAC

Series 36

100% OF PRODUCTION TESTED 100%

WARRANTY 18 MONTHS

TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to +50°C)
Flow :	1.8W : (0.20 C_v) – 2.4W : (0.20 C_v) – 5.4W : (0.30 C_v)
Coil :	Class A continuous duty, #22 AWG x 12 base leads
Voltage range :	-15% to +10% of nominal voltage
Protection :	Consult Factory
Power :	5.4 W – 2.4 W – 1.8 W

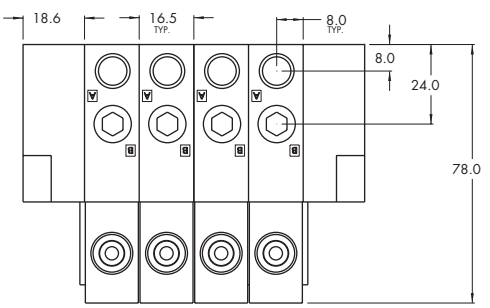
Option : • BSPP threads

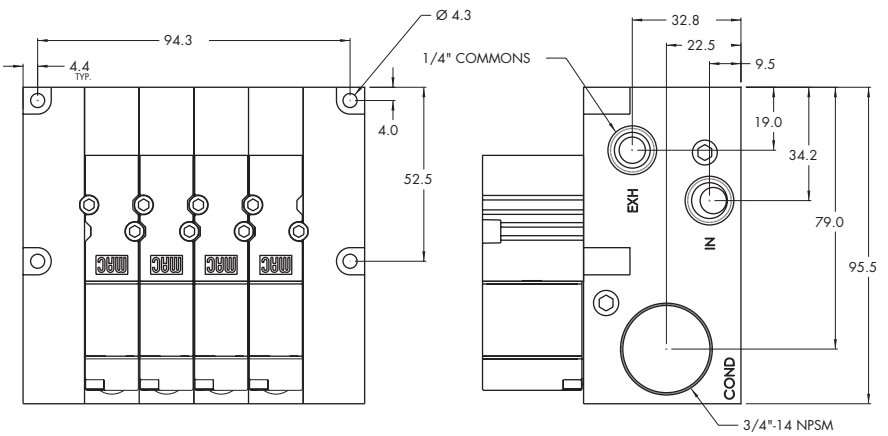
Spare parts : • Inlet isolator : 28501 • Exhaust isolator : 28502 • Valve cover plate : M-46002
• Tie rod (x2) : 79443

DIMENSIONS

Dimensions shown are metric (mm)

Note: For Normally closed manifold the "A" port is plugged.
For Normally open manifold the "B" port is plugged.





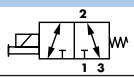
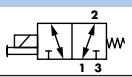
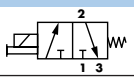
Consult "Precautions" page 327 before use, installation or service of MAC Valves..

Function	Port size	Flow (Max)	Individual mounting	Series
3/2	**1/8" - 5/32** Pressed-in tube receptacle	**0.3 C_v**	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.

HOW TO ORDER

Port size	Universal Valve Normally Closed	Universal Valve Normally Open	Normally Closed Only
			
Valve less base	36A-J00-00-J ***xx***P-***xxx***	36A-K00-00-J ***xx***P-***xxx***	36A-L00-00-J ***xx***P-***xxx***
1/8" NPTF	36A-JSA-AG-J ***xx***P-***xxx***	36A-KSA-AH-J ***xx***P-***xxx***	36A-LSA-AG-J ***xx***P-***xxx***
5/32 tube receptacle	36A-JSF-AG-J ***xx***P-***xxx***	36A-KSF-AH-J ***xx***P-***xxx***	36A-LSF-AG-J ***xx***P-***xxx***

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

XX	**Voltage**
AA	120 VAC (5.4W)
DA	24 VDC (5.4W)
DB	12 VDC (5.4W)
DC	24 VDC (2.4W)
DD	12 VDC (2.4W)

X	**Manual operator**
1	Non-locking recessed
2	Locking recessed

XX	**Electrical connection**
FA	Base plug-in
FB	Base plug-in with diode
FG	Base plug-in with rectifier

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

OPTIONS

36A-JSA-A**G**-J***xx*** P-***xxx***

- **G** NC manifold & regulator with slotted stem adjustment
- **S** NC manifold & regulator with locking slotted stem adjustment
- **J** NC manifold & regulator with knob adjustment

36A-KSA-A**H**-J***xx*** P-***xxx***

- **H** NO manifold & regulator with slotted stem adjustment
- **T** NO manifold & regulator with locking slotted stem adjustment
- **K** NO manifold & regulator with knob adjustment

Note : All manifold bases are only available with a bottom cylinder port.

Example : Manifold base only : 36A-0SA-AJ (Normally closed manifold base & regulator with knob).

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

Consult "Precautions" page 327 before use, installation or service of MAC Valves..

MAC

Series 36

100% OF PRODUCTION TESTED 100%

WARRANTY 18 MONTHS

TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to +50°C)
Flow :	1.8W : (0.20 C_v) – 2.4W : (0.20 C_v) – 5.4W : (0.30 C_v)
Coil :	Class A continuous duty, #22 AWG x 12 base leads
Voltage range :	-15% to +10% of nominal voltage
Protection :	Consult Factory
Power :	5.4 W – 2.4 W – 1.8 W

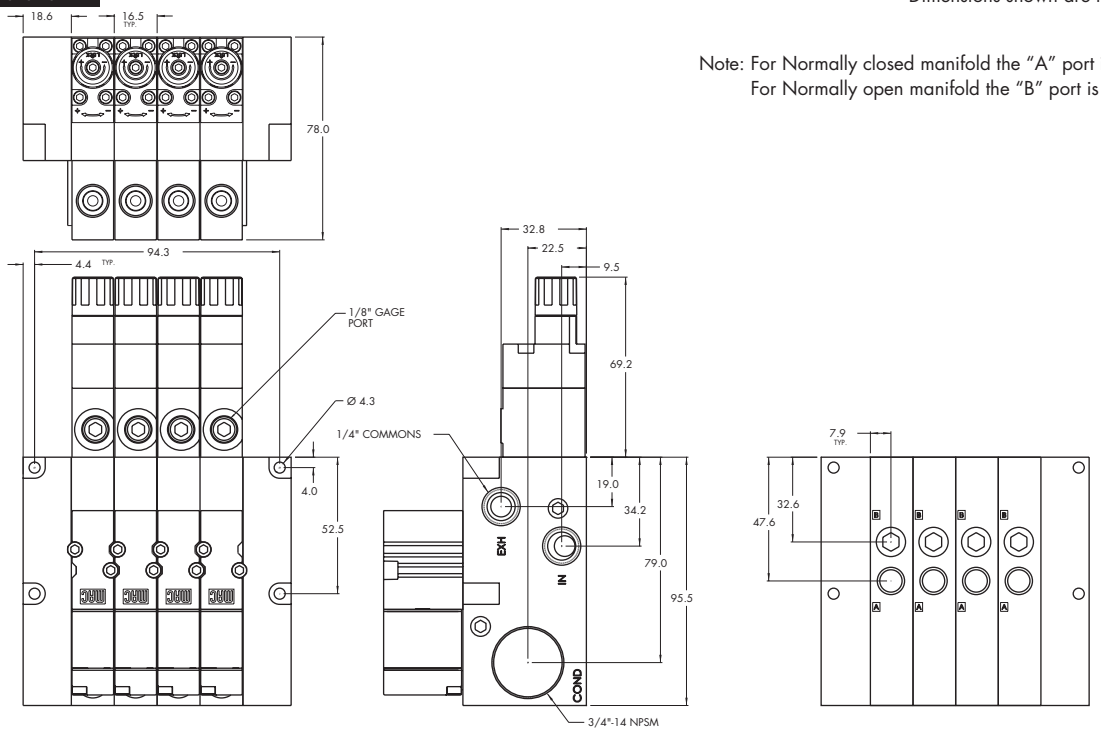
Option : • BSPP threads

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

DIMENSIONS

Dimensions shown are metric (mm)

Note: For Normally closed manifold the "A" port is plugged.
For Normally open manifold the "B" port is plugged.



Consult "Precautions" page 327 before use, installation or service of MAC Valves..

OPTIONS

Codification table for voltages / Manual operators / Electrical connections

VALVE CODE ➤ **J XX X-X XX**
1 2 3 4

OPTIONS AVAILABLE FOR
- Solenoid valves 36, 46, ISO 01 and ISO 02 Series

Consult "Precautions" page 327 before use, installation or service of MAC Valves..

1. VOLTAGE

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

* Not available on 36 series universal valve

2. WIRE LENGTH

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

3. MANUAL OPERATOR

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

4. ELECTRICAL CONNECTION

CONNECTORS FOR NON PLUG-IN VALVES

J-XX X-X XX	ELECTRICAL CONNECTION
BA	Flying leads
GA	MAC JAC solenoid plug-in
GB	MAC JAC solenoid plug-in with diode
GC	MAC JAC solenoid plug-in with MOV
GD	MAC JAC solenoid plug-in with light
GE	MAC JAC solenoid plug-in with diode and light
GF	MAC JAC solenoid plug-in with MOV and light
GG	MAC JAC solenoid plug-in with rectifier
GH	MAC JAC solenoid plug-in with rectifier and light
GJ	MAC JAC solenoid plug-in – Male only
GK	MAC JAC solenoid plug-in with diode – Male only
GL	MAC JAC solenoid plug-in with MOV – Male only
GM	MAC JAC solenoid plug-in with light – Male only
GN	MAC JAC solenoid plug-in with diode and light – Male only
GP	MAC JAC solenoid plug-in with MOV and light – Male only
GR	MAC JAC solenoid plug-in with rectifier – Male only
GS	MAC JAC solenoid plug-in with rectifier and light – Male only
*JA	Square Connector
*JC	Square Connector with light
*JE	Square Connector with diode
*JF	Square Connector with MOV
*JG	Square Connector with diode/light
*JH	Square Connector with MOV /light
*JK	Square Connector with Rectifier

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

* Not available on manifold or stacking valves

CONNECTORS FOR NON PLUG-IN VALVES

J-XX X-X XX	MINI SQUARE PLUG-IN CONNECTORS 9.4 MM SPACING BETWEEN PINS
KA	Mini plug-in
KB	Mini plug-in with diode
KC	Mini plug-in with MOV
KD	Mini plug-in with light
KE	Mini plug-in with diode and light
KF	Mini plug-in with MOV and light
KG	Mini plug-in with rectifier
KH	Mini plug-in with rectifier and light
KJ	Mini plug-in – Male only
KK	Mini plug-in with diode - Male only
KL	Mini plug-in with MOV - Male only
KM	Mini plug-in with light - Male only
KN	Mini plug-in with diode and light – Male only
KP	Mini plug-in with MOV and light – Male only
KR	Mini plug-in with rectifier – Male only
KS	Mini plug-in with rectifier and light – Male only

CONNECTORS FOR NON PLUG-IN VALVES

J-XX X-X XX	MINI SQUARE PLUG-IN CONNECTORS 8.0 MM SPACING BETWEEN PINS ISO SPECIFICATION 15217
LA	Mini plug-in
LB	Mini plug-in with diode
LC	Mini plug-in with MOV
LD	Mini plug-in with light
LE	Mini plug-in with diode and light
LF	Mini plug-in with MOV and light
LG	Mini plug-in with rectifier
LH	Mini plug-in with rectifier and light
LJ	Mini plug-in – Male only
LK	Mini plug-in with diode - Male only
LL	Mini plug-in with MOV - Male only
LM	Mini plug-in with light - Male only
LN	Mini plug-in with diode and light – Male only
LP	Mini plug-in with MOV and light – Male only
LR	Mini plug-in with rectifier – Male only
LS	Mini plug-in with rectifier and light – Male only

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

Consult “Precautions” page 327 before use, installation or service of MAC Va

How to Order
Non Plug In Circuit Bar for 36 Series

EBM 36A - XX X X X - XX - 9

- 9 — Valves, Cover Plates assembled to bar
- XX — No. of Stations

Spacing

00 16.5mm

Configuration

Low Profile Bar

A Side Cyl. Port
B Bottom Cyl. Port

Mid Profile

C* Bottom Cyl. Port w/ Reg.

*Regulator Must Be Ordered Separately
See Regulator "How To Order".

Style

A Standard

Cylinder Port Size and Thread Type

A 1/8" NPTF
B 1/8" BSPPL
C 1/8" BSPTR
D 5/32 Pressed in Tube Receptacle w/NPTF Thru Ports
E 5/32 Pressed in Tube Receptacle w/BSPPL Thru Ports
F 5/32 Pressed in Tube Receptacle w/BSPTR Thru Ports

Blank Plate Kits

M-36002 Valve Cover Plate
N-46004 Regulator Cover Plate

How to Order
Plug In Circuit Bar for 36 Series

ECD 36A - XX X X X - XX XX - 9

- 9 — Valves, Regulators, and Cover Plates assembled to bar
- XX — No. of Stations
- XX — Electrical
- X — Cylinder Port Size
- X — Style
- X — Configuration
- XX — Spacing

Spacing

00 16.5mm

Configuration

Low Profile Bar

A Side Cyl. Port
B Bottom Cyl. Port

Mid Profile

C* Bottom Cyl. Port w/ Reg.

*Regulator Must Be Ordered Separately
See Regulator "How To Order".

Style

A Standard

Cylinder Port Size

A 1/8" NPTF
B 1/8" BSPPL
C 1/8" BSPTR
D 5/32 Pressed in Tube Receptacle w/NPTF Thru Ports
E 5/32 Pressed in Tube Receptacle w/BSPPL Thru Ports
F 5/32 Pressed in Tube Receptacle w/BSPTR Thru Ports

Electrical

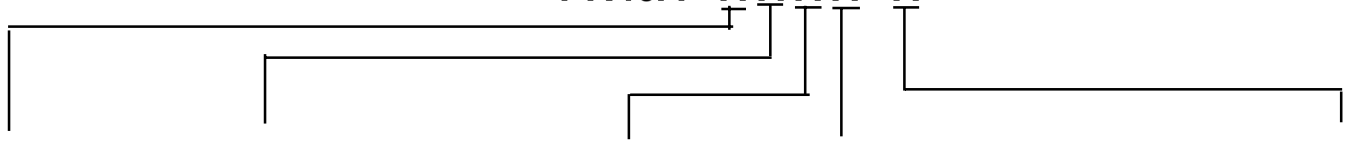
A0 Standard (No Light)

Blank Plate Kits

M-36002	Valve Cover Plate
N-46004	Regulator Cover Plate

How to Order
36 / 46 Series Regulator

PR46A - X X X X - X



Style

0 Regulator Only

Type Adjustment

A Slotted Stem
B Adjusting Knob
C Slotted Stem w/ Locknut

Gages

A Gage Port Plugged

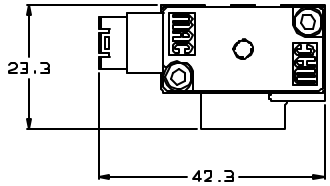
Pressure Range

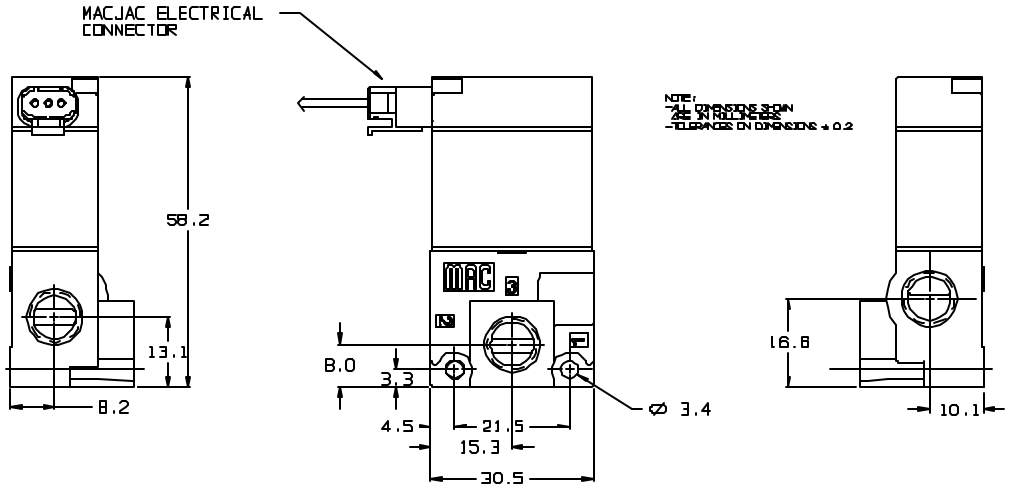
A 0 to 120 PSI
B 0 to 80 PSI
C 0 to 30 PSI

Assembled

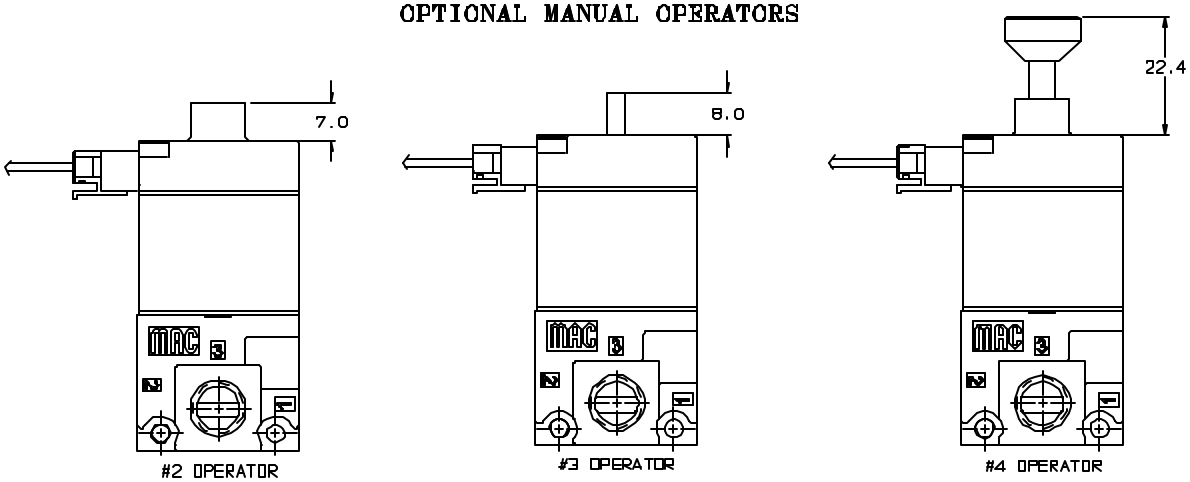
9 Regulator Block is assembled to valve

36 SERIES INLINE

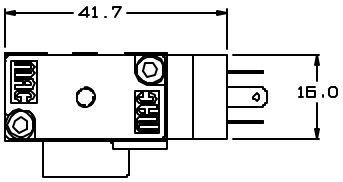




OPTIONAL MANUAL OPERATORS



OPTIONAL ELECTRICAL CONNECTORS



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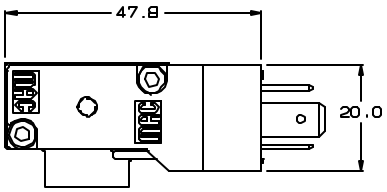
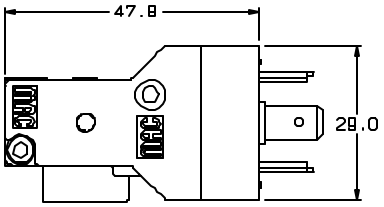
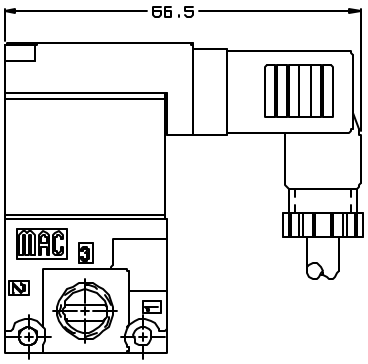


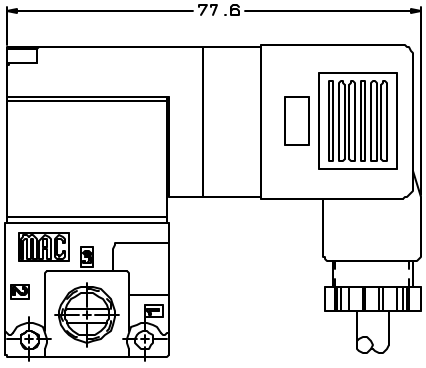
JM



JJ



KA



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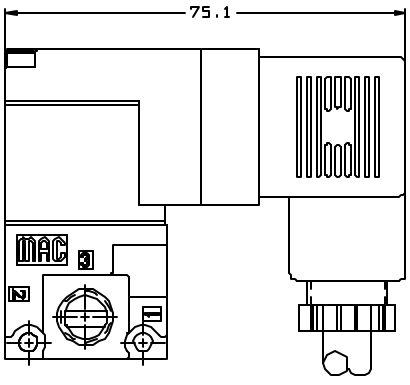

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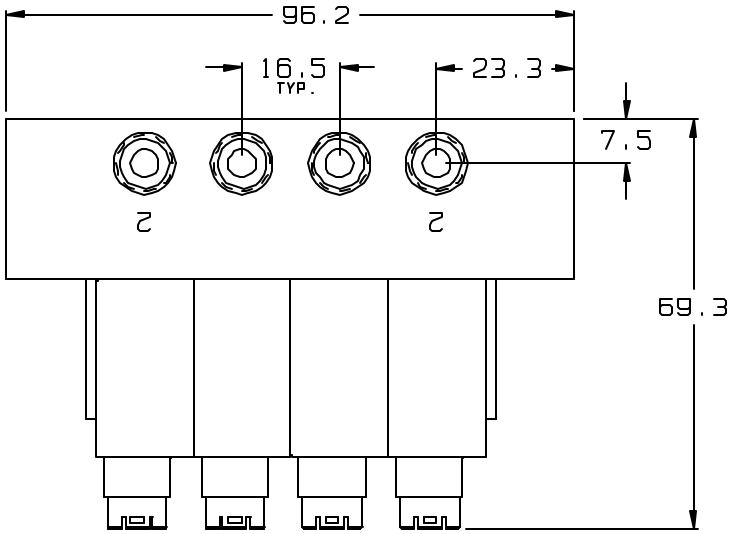
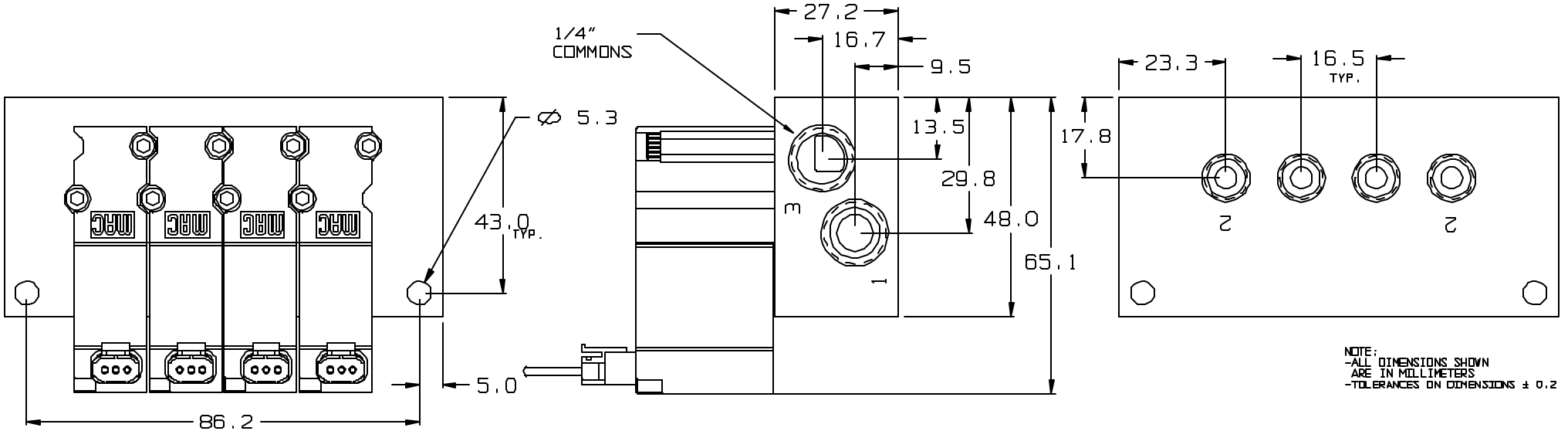
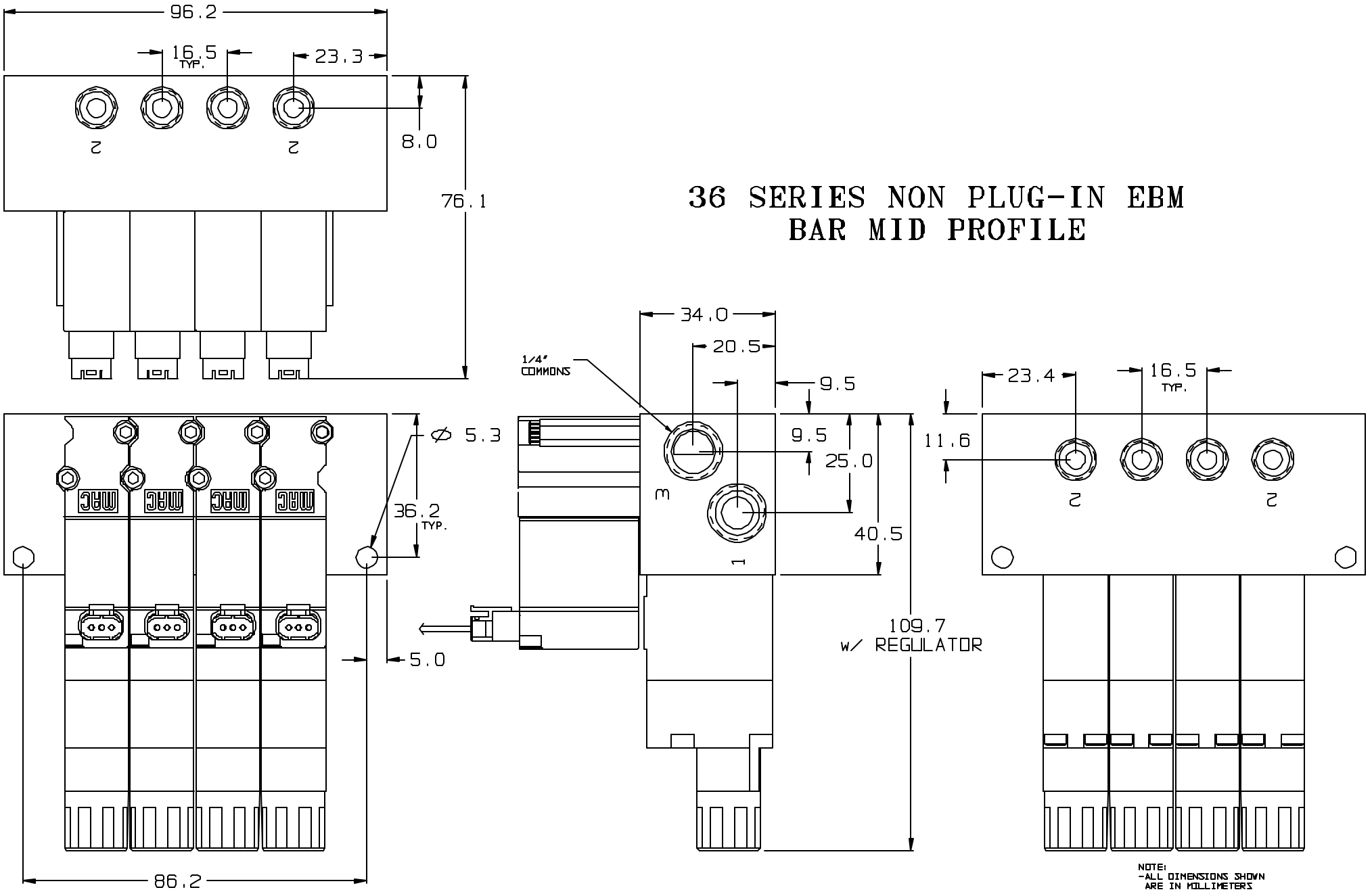


36 SERIES NON PLUG-IN EBM BAR LOW PROFILE

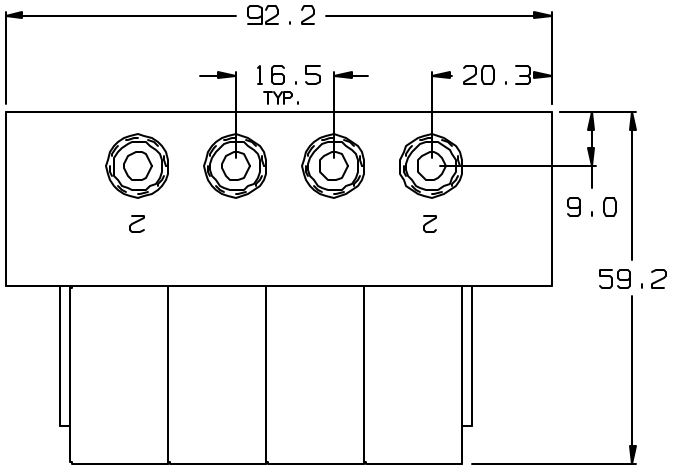


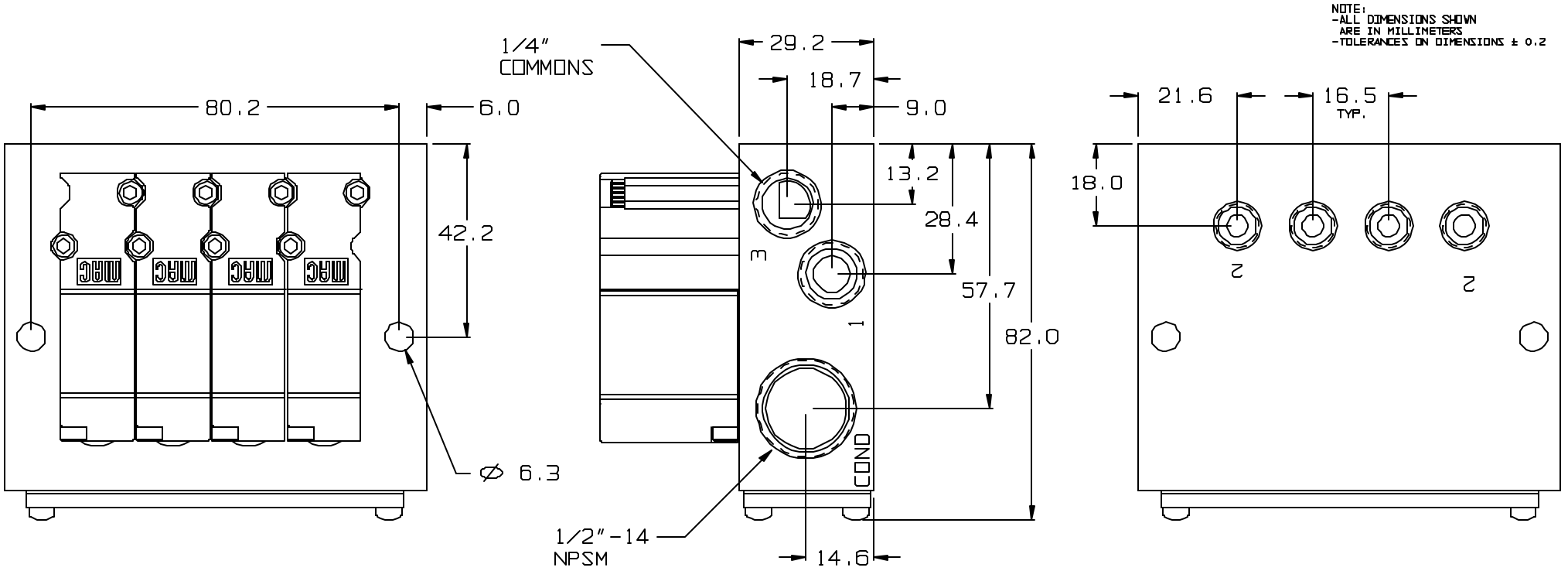
NOTE:
-ALL DIMENSIONS SHOWN ARE IN MILLIMETERS
-TOLERANCES ON DIMENSIONS ± 0.2

36 SERIES NON PLUG-IN EBM
BAR MID PROFILE

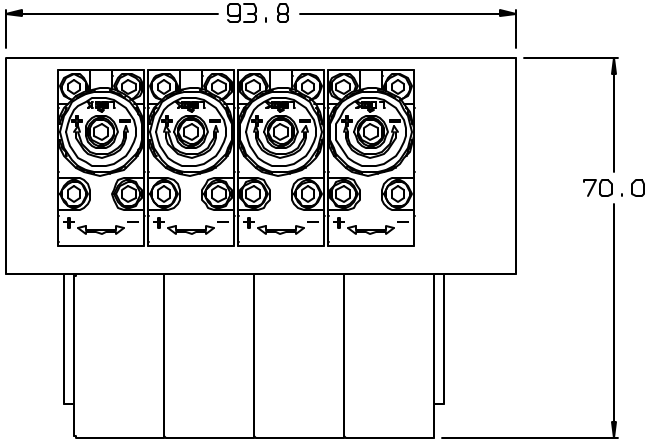


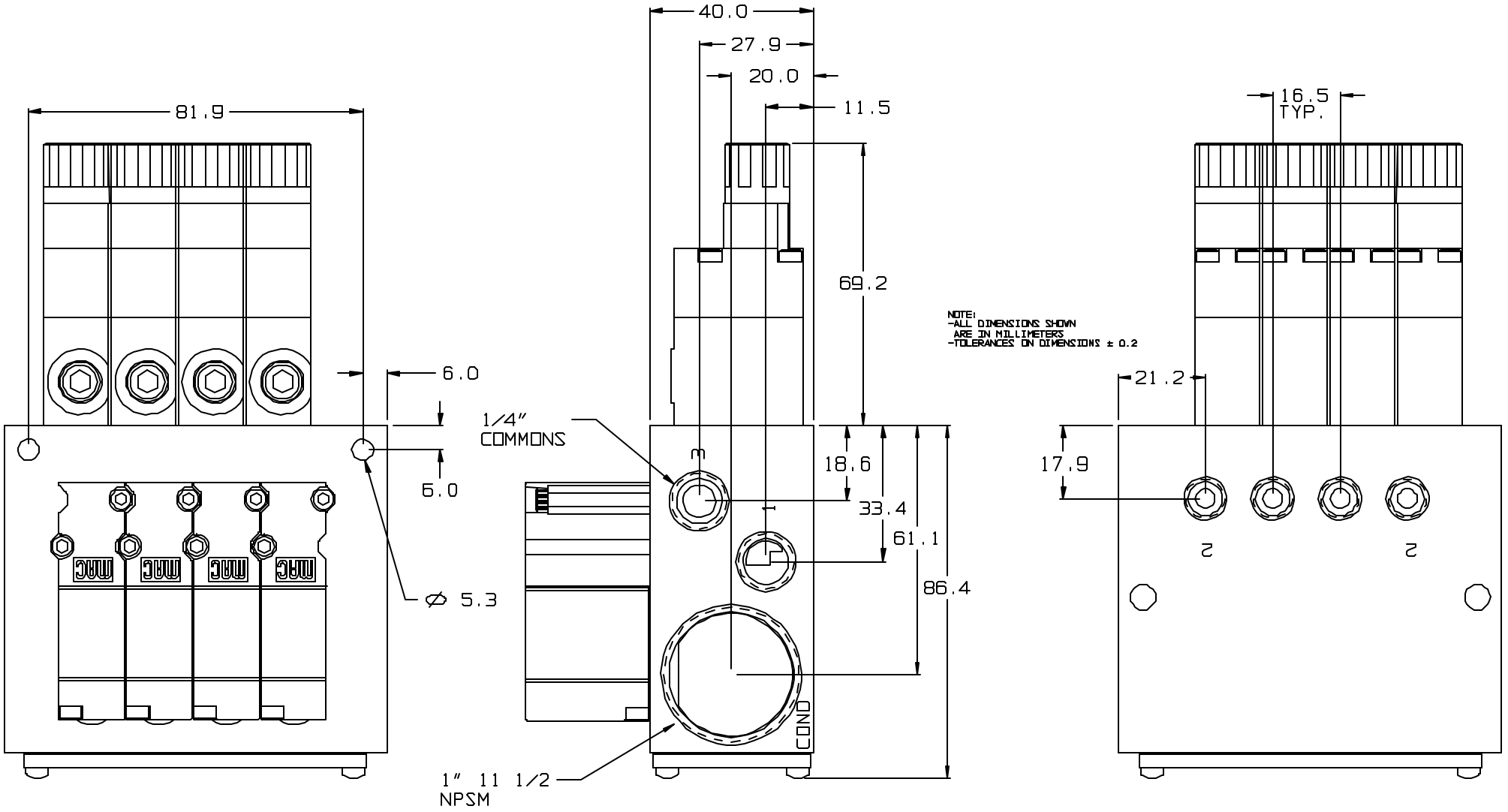
36 SERIES PLUG-IN ECD
BAR LOW PROFILE





36 SERIES PLUG-IN ECD
BAR MID PROFILE





Specifications
36 Series Valve (Lifting Solenoid)

Operating Data

Fluids:	Air or Inert Gas
Lubrication:	Not Required. But if used, select a medium aniline point oil (between 180ºF to 210ºF).
Safe Operating Temperature Range:	0º to 120ºF (-18º to 50ºC)
Pressure Range:	Vacuum to 120 PSI
Coils:	General Purpose Class A, Continuous duty.
Coil Leads:	#22 AWG x 18", Other lengths available
Solenoid:	Single Operator Only

Flows (Cv - Up to)
Average of All Ports

	Wattage		
Inline (Cv)	1.8w	2.4w	5.4w
	.15	0.20	0.30

Higher flow rates available - Consult Factory

Special Applications

The balanced poppet design facilitates using the same valve for many functions. A valve may be used for pressure and/or vacuum or plugged for 2 Way operation.

How to Order 36L Series (Lifting Solenoid)

36LA - X X X - DXXX-XXX

Solenoid Assembly

Body Type	Port Size	Configuration
Inline	0 Base Mount Body	0 Base Mount Body
A Inline Body	A 1/8" NPTF	A Inline (universal)
Base Mount	B #10 - 32 UNF	B Inline (n.c. only)
B Base Mount Body (universal)	C 1/8" BSPPL	
E Base Mount Body (n.c. only)	D M5 (Metric)	
	E 1/8" BSPTR	
Note: Base Mount Body used only with circuit bars	Note: Port sizes pertain only to inline body.	

How to Order 36L Series

Lifting Solenoid Assembly

D XX X - X XX

Voltage

DA	24 VDC (5.4W)	DB	12 VDC (5.4W)
DC	12 VDC (7.5W)	DD	24 VDC (7.3W)
DE*	12 VDC (12.7W)	DF*	24 VDC (12.7W)
DJ	28 VDC (5.2W)	DK	110 VDC (5.8W)
DL	64 VDC (6W)	DM	36 VDC (5.3W)
DN	6 VDC (6W)	DP	48 VDC (5.8W)
DR	90 VDC (6.6W)	DS	110 VDC (7.3W)
DT	75 VDC (5.6W)	EA	12 VDC (6.0W)
EB	220 VDC (4.2W)	ED	24 VDC (4.2W)
EE	12 VDC (4.2W)	EJ	24 VDC (9.3W)
EM	120 VDC (6.2W)	ES*	12 VDC (9.5W)
ET	24 VDC (3.0W)	EW	24 VDC (8.0W)
FA	12 VDC (1.8W)	FB	24 VDC (1.8W)
FC	10 VDC (2.2W)	FE	12 VDC (2.4W)
FF	24 VDC (2.4W)	FK	48 VDC (1.9W)
FL	18 VDC (2.4W)	GD	220 VDC (7.3W)
GE	6 VDC (9.0W)	GF	15 VDC (5.0W)
GG	9 VDC (9.0W)		

* MOD CLSF

Lead Wire Length

0	No Lead Wire
A	18"
B	24"
C	36"
D	48"
E	72"
F	96"
J	External Plug-In
P	Plug-In

Notes : Use "J" with J, K, T, & P Connectors
Use "P" with FM & FN Connectors

Manual Operator

0	No Operator
1	Non-Locking Manual Operator

Electrical Connectors

BA	Grommet (Flying Leads)
BK	Grommet with diode (Flying Leads)
BM	Plug-in (with leads)
BN	Plug-in with diode (with leads)
CA	Conduit 1/2"
CM	Metal conduit 1/2"
CN	Metal conduit with ground 1/2"
FM	Plug-in (For ECD Bar)
FN	Plug-in with diode (for ECD Bar)
JB	Rectangular plug-in
JD	Rectangular plug-on with light
JM	Rectangular male only
KA	Mini plug-in
KB	Mini plug-in with diode
KD	Mini plug-in with light
KE	Mini plug-in with light & diode
KG	Mini plug-in with LED light & diode
KJ	Mini plug-in male only
KK	Mini plug-in male only with diode
TA	Dual tabs (.110) with receptacles
TB	Dual tabs with diode & receptacles
TD	Dual tabs with light & receptacles
TE	Dual tabs with light, diode & receptacles
TJ	Dual tabs (.110) plain
TK	Dual tabs with diode (no receptacles)
TM	Dual tabs with light (no receptacles)
TN	Dual tabs with light & diode (no receptacles)
PA	Pico

How to Order 36L Series

EBM Circuit Bar (Non Plug-In)

EBM36LA - XX X X X - XX - 9

- 9 — Valves, Cover Plates Assembled to Bar
- XX — Number of Stations

Spacing

00	20.0mm Spacing
01	26.0mm Spacing

Configuration

A	Side Cylinder Port
B	Bottom Cylinder Port

Style

A	Standard

Port Size

A	1/8” NPTF (w/ NPTF through ports)
B	1/8” BSPPL (w/ BSPPL through ports)
C	1/8” BSPTR (w/ BSPTR through ports)
D	5/32 Tube Receptacles with NPTF Through Ports
E	5/32 Tube Receptacles with BSPPL Through Ports
F	5/32 Tube Receptacles with BSPTR Through Ports

Note: 26mm spacing required for conduit and rect. din type connectors

Ordering Examples

EBM36LA-00AAC-06

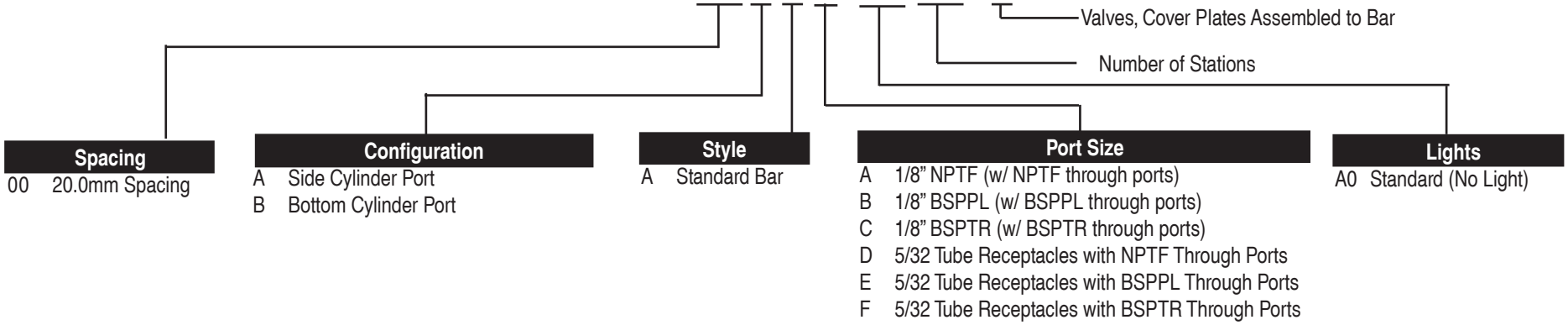
36L Series, Non Plug-In, 20.0 mm spacing, 1/8" BSPTR side cylinder ports, standard bar, with BSPTR through ports (inlet and exhaust) with six identical stations

Note: If all stations are not identical, the circuit bar is considered "Special."
Consult factory for part number and pricing.

How to Order 36L Series

ECD Circuit Bar (Plug-In)

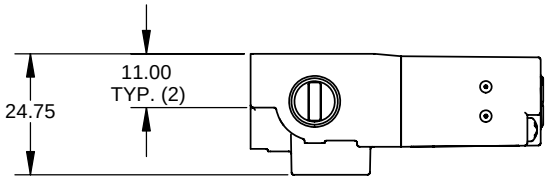
ECD36LA - XX X X X - XX XX - 9

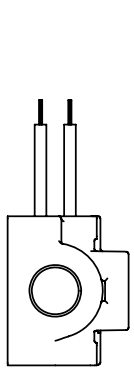


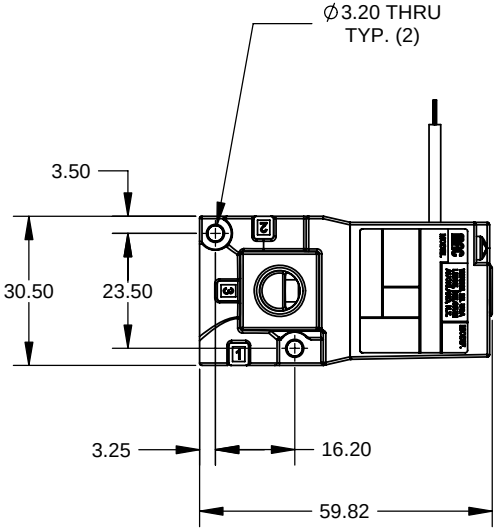
Ordering Examples
ECD36LA-00AAA-A006

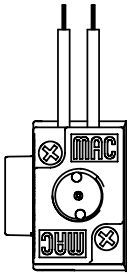
36L Series, Plug-In, 20.0 mm spacing, 1/8" NPTF side cylinder ports, with NPTF through ports (inlet and exhaust), standard bar, with six identical stations

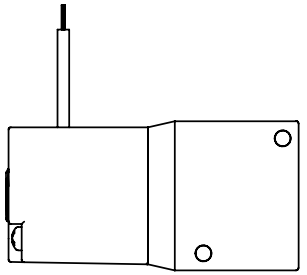
Note: If all stations are not identical, the circuit bar is considered "Special."
Consult factory for part number and pricing.

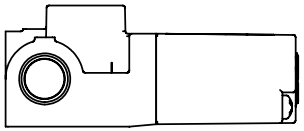


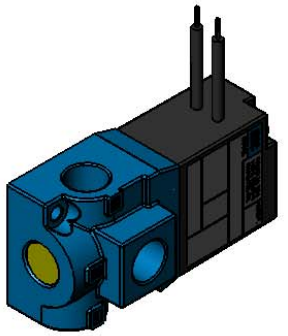




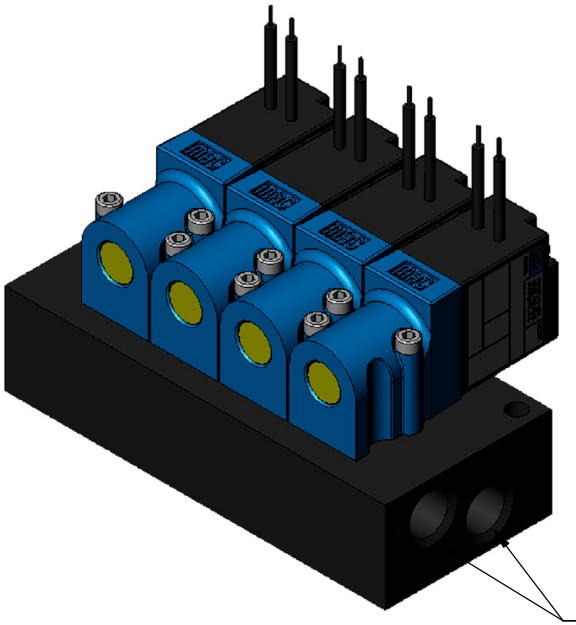


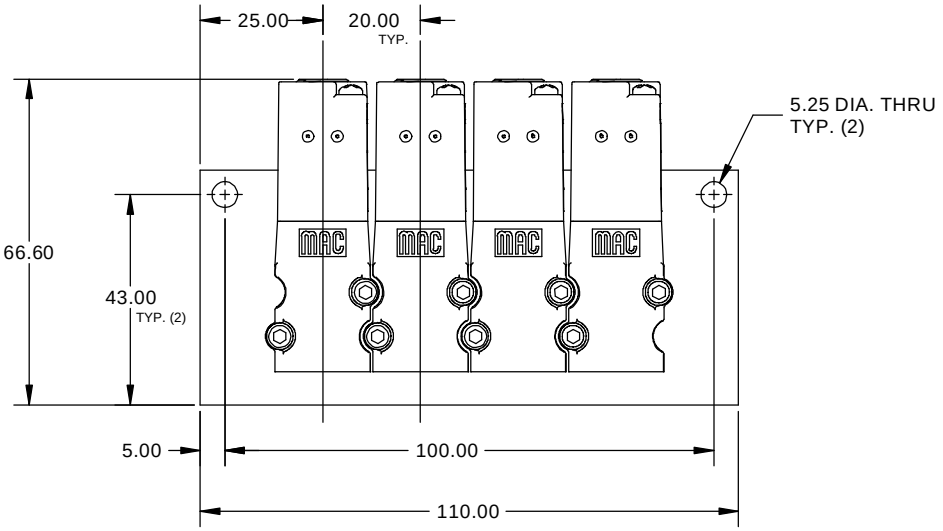


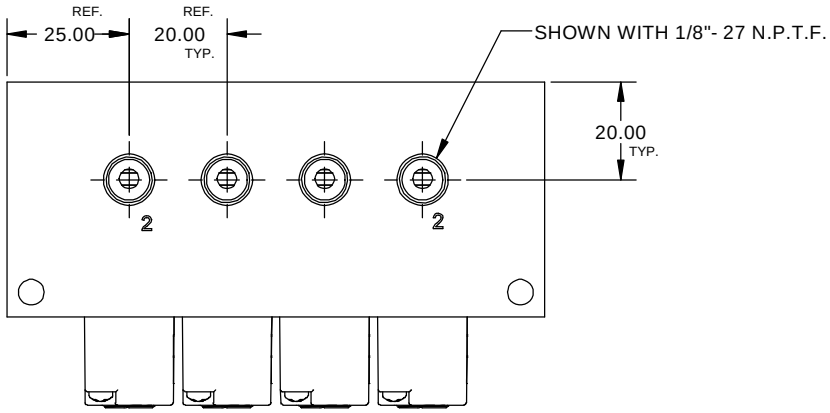


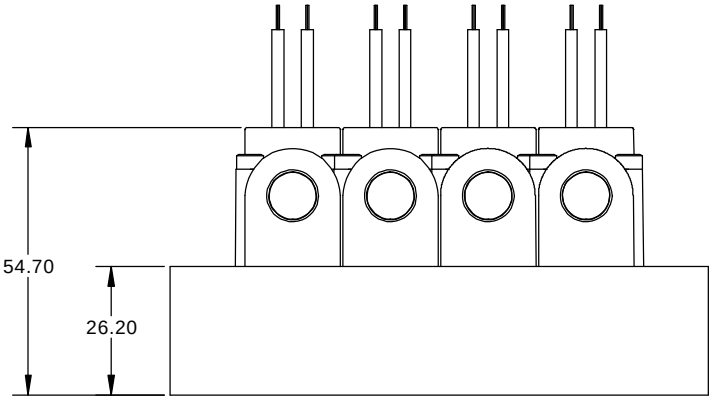


36L INLINE VALVE





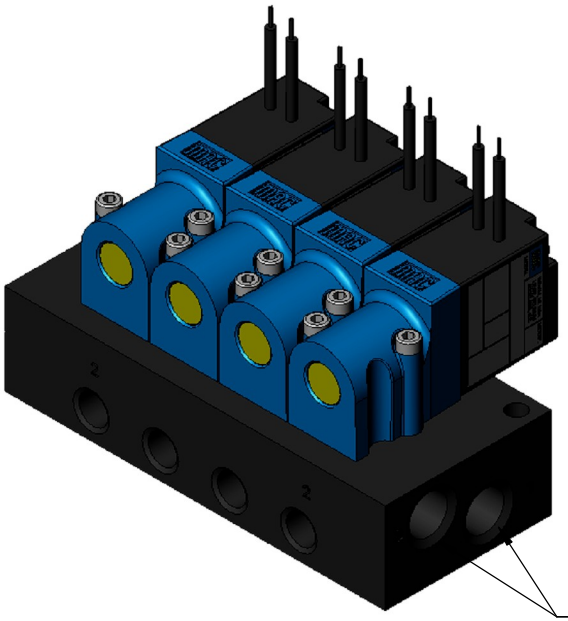


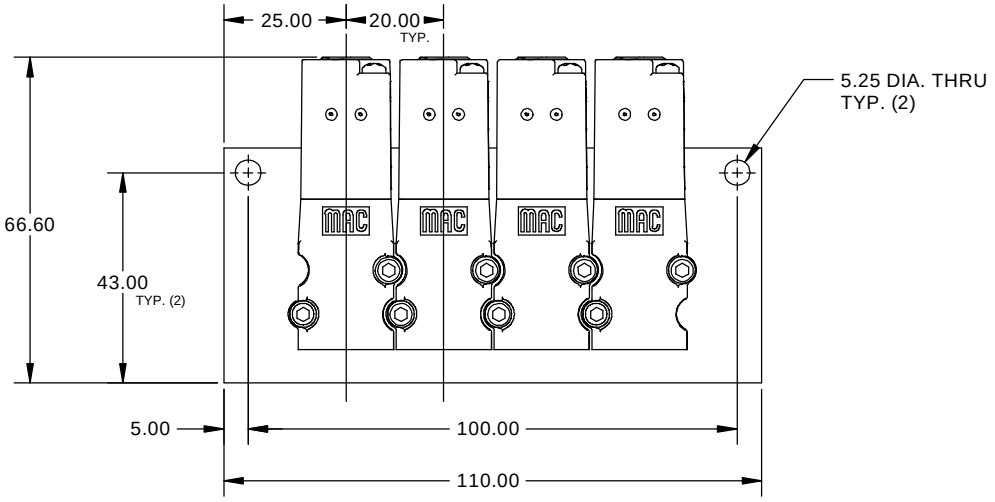


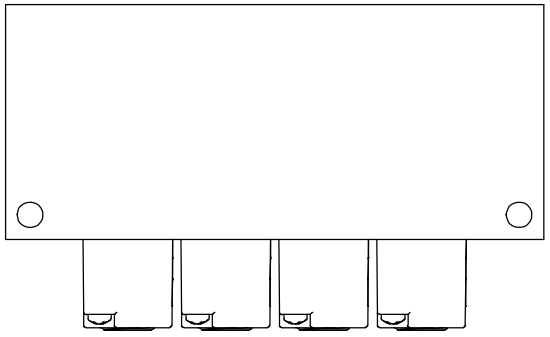
EBM36LA-00BAA-XX

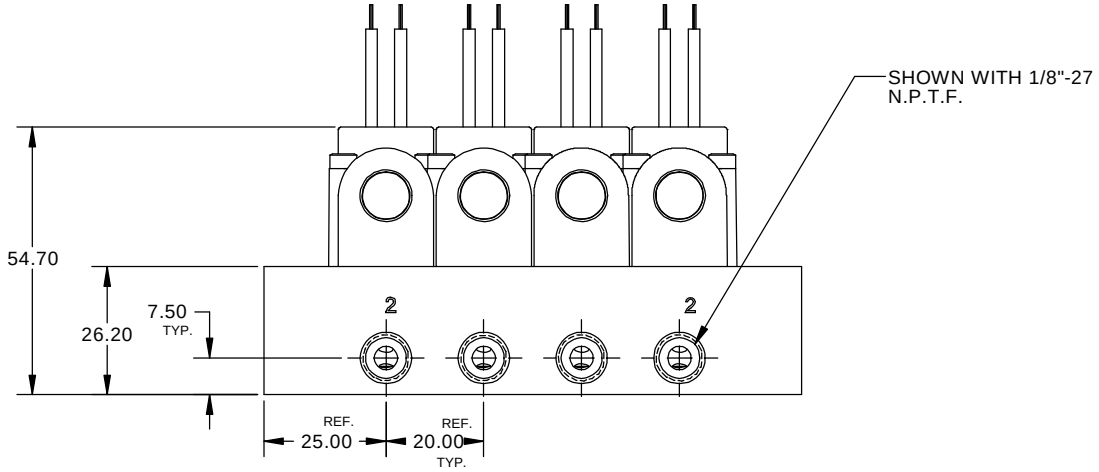
* 26mm SPACING AVAILABLE FOR CONDUIT AND RECT. DIN TYPE CONNECTOR

* SHOWN WITH A #0 OPERATOR



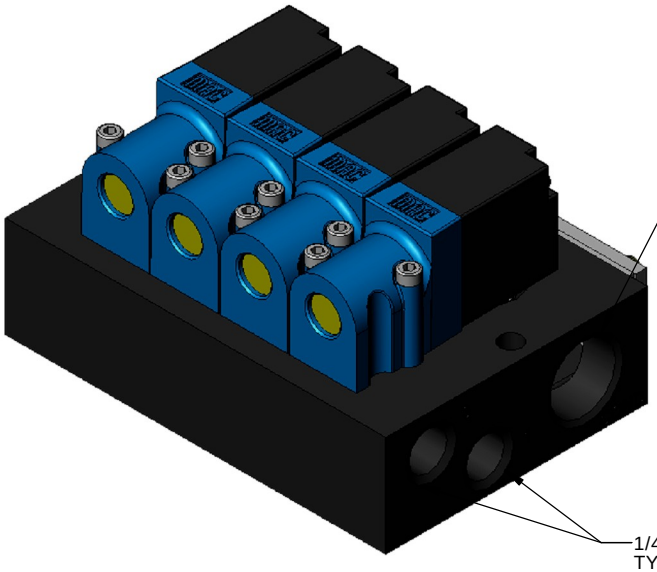


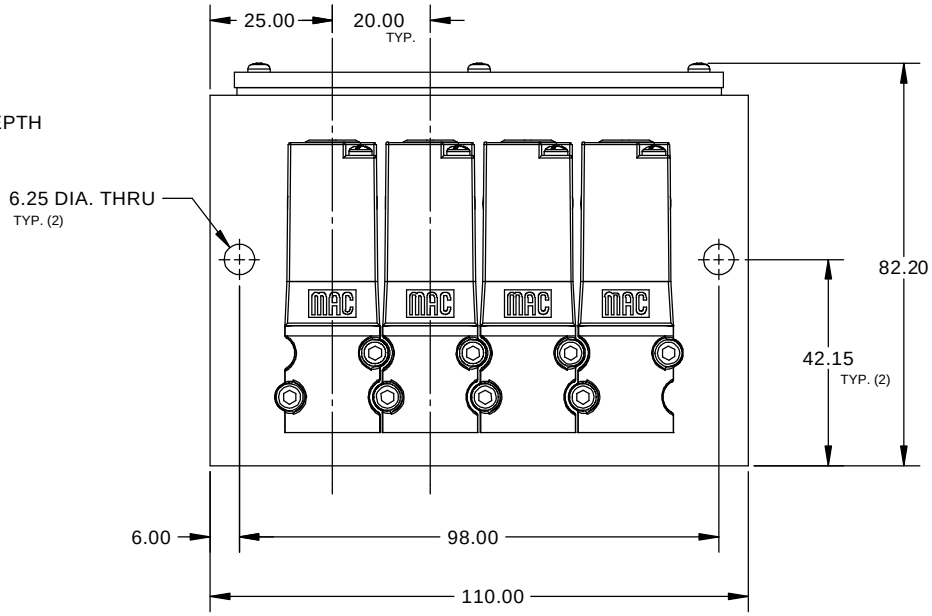


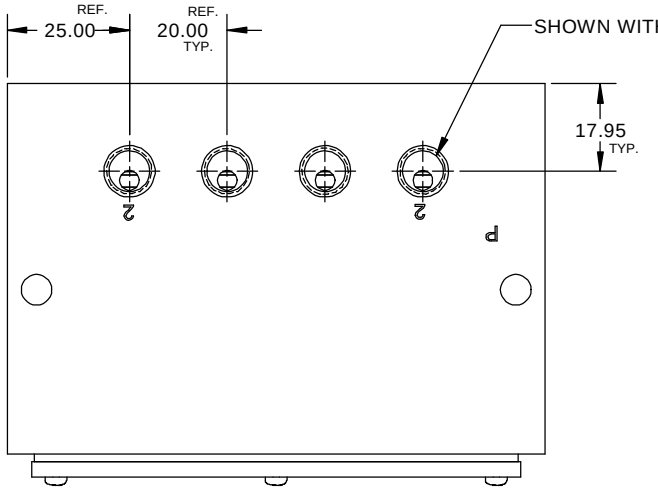


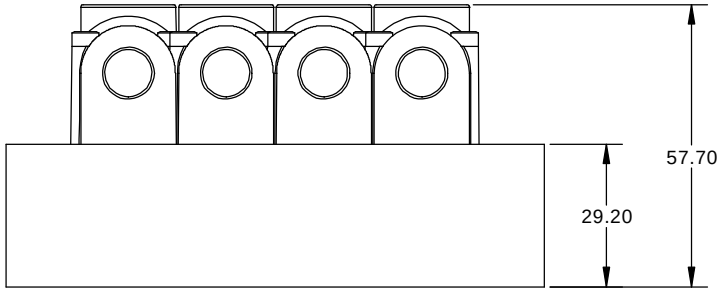
EBM36LA-00AAA-XX

* 26mm SPACING REQUIRED FOR CONDUIT AND RECT. TYPE CONNECTORS
* SHOWN WITH A #0 OPERATOR



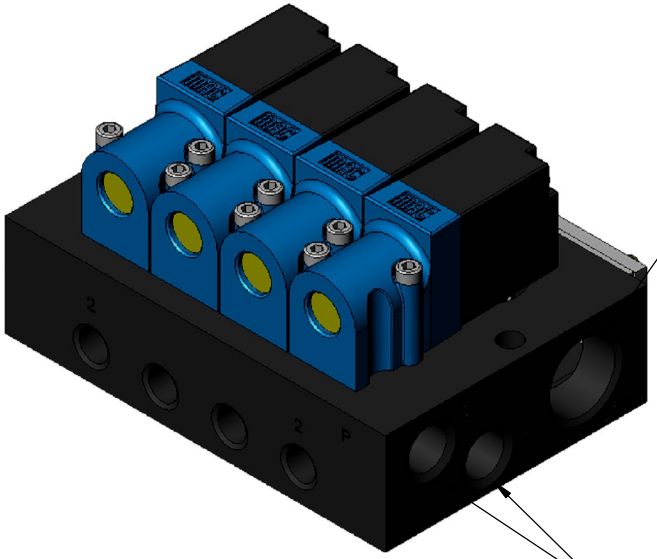


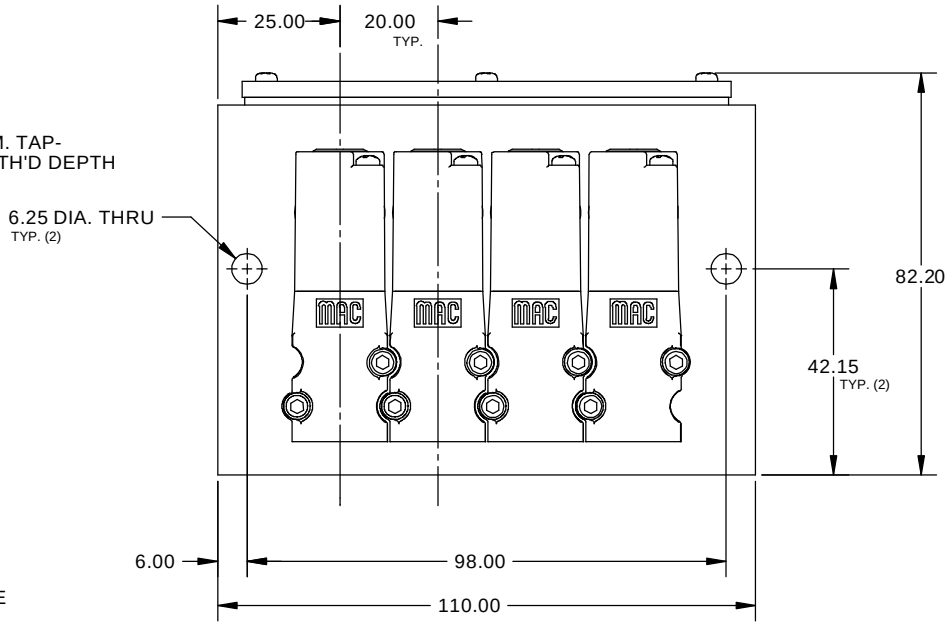


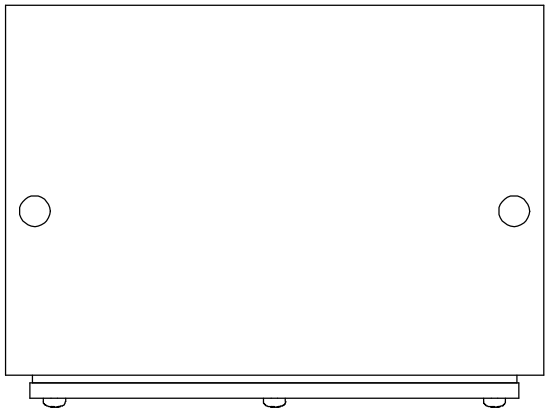


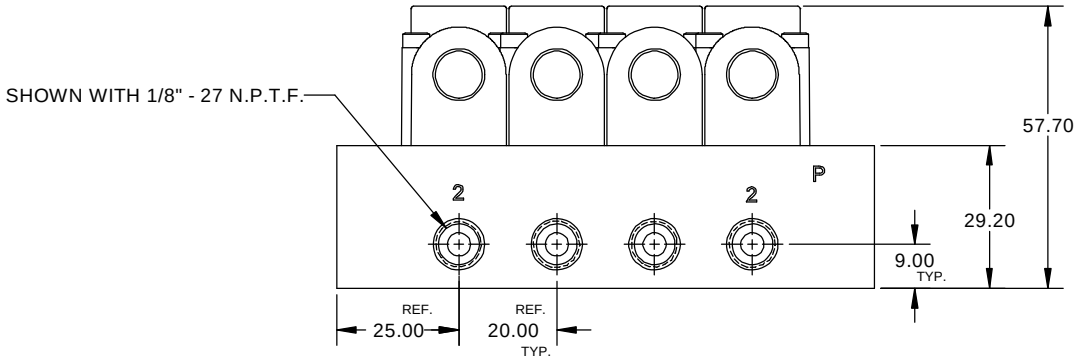
ECD36LA-00BAA-A0-XX

* SHOWN WITH A #0 OPERATOR









ECD36LA-00AAA-A0-XX

* SHOWN WITH A #0 OPERATOR

How To Order
36 Series MAConnect

36A - X X X - X X - JXXP - X XX (-G) add letter "G" when ground wire is required

Solenoid Assembly

Body Type

0	Base Only No Valve
J	Base Mount Body Universal Valve N.C.
K	Base Mount Body Universal Valve N.O.
L	Base Mount Body N.C. Only Valve

Style

0	Base Mount Body Only
M	MAConnect

Port Size and Thread Type

0	Base Mount Body Only
A	1/8" NPTF
C	1/8" BSPPL
E	1/8" BSPTR
F	5/32" Pressed In Tube Receptacle

Base Electrical

0	Base Mount Body Only
A	Plug-In To Left
B	Plug-In To Right

Manifold/Regulator

0	Valve Only
E	N.C. Manifold Side Cyl. Port
F	N.O. Manifold Side Cyl. Port
G	N.C. Manifold Bottom Cyl. Port & Reg w/ Slotted Stem
H	N.O. Manifold Bottom Cyl. Port & Reg w/ Slotted Stem
J	N.C. Manifold Bottom Cyl. Port & Reg w/ Adjusting Knob
K	N.O. Manifold Bottom Cyl. Port & Reg w/ Adjusting Knob
S	N.C. Manifold Bottom Cyl. Port & Reg w/ Locking Stem
T	N.O. Manifold Bottom Cyl. Port & Reg w/ Locking Stem

Parts

M-46002	Valve Cover Plate
28501	Inlet Isolator
28502	Exhaust Isolator
79443	Tie Rod (x2)

Notes: The function of the valve body type should match the manifold function (i.e. N.C. Body on a N.C. Manifold).

36 Series manifolds may be configured in the same stack with the 46 series manifolds.

Revised from sales bulletin #32-02

How To Order
36 Series Solenoid Assembly

36A - XXX - XX - J XX P - X XX (-G) add letter "G" when ground wire is required

Voltage

AA	120 VAC (5.4w) - Max Cv = 0.3
AC	24 VAC (5.4w) - Max Cv = 0.3
DA	24 VDC (5.4w) - Max Cv = 0.3
DB*	12 VDC (5.4w) - Max Cv = 0.3
DC	24 VDC (2.4w)
DD	12 VDC (2.4w)
DE	24 VDC (1.8w)
DF	12 VDC (1.8w)
LA	120 VAC (5.4w) - Max Cv = 0.23
LB	24 VAC (5.4w) - Max Cv = 0.23
MA	24 VDC (5.4w) - Max Cv = 0.23
MB*	12 VDC (5.4w) - Max Cv = 0.23

* Not available for MAConnect

Note: AC Voltage requires a connector with a rectifier

Manual Operator

0	No operator
1	Recessed Non Locking Operator
2	Recessed Locking Operator
3	Extended Non Locking Operator
4	Extended Locking Operator

Electrical Connector

FA	Base Plug-In
FB	Base Plug-In with Diode (Positive Common)
FC	Base Plug-In with MOV
FD	Base Plug-In with LED
FE	Base Plug-In with Diode and LED (Positive Common)
FF	Base Plug-In with MOV and LED
FG	Base Plug-In with Rectifier
FH	Base Plug-In with Rectifier and LED
FJ	Base Plug-In with Diode (Negative Common)
FK	Base Plug-In with Diode and LED (Negative Common)

Revised from sales bulletin #32-02

36 Series MAConnect™

How to Order

Adapters / End Plate Kit

MAConnect™ Adapter Assembly

M-46005 - XX - X X

09	9 Pin Sub-D
10	10 Pin
15	15 Pin Sub-D
16	16 Pin
20	20 Pin
24	24 Pin Amp CPC
25	25 Pin Sub-D
26	26 Pin

1	Left End
2	Right End

	Leave Blank for NPTF Threads
P	BSPPL Threads
T	BSPTR Threads

Note: For washdown Sub-D connector use MOD 532M after model number.
For negative commons, use MOD. 1705 after model number.

MAConnect™ Fastening End Plate Kit

M-46006 - XX - 01 X

01	Left End of Stack
02	Right End of Stack

	Leave Blank For NPTF Threads
P	BSPPL Threads
T	BSPTR Threads

Note: "01" should be used only when the Fastening End Plate Kit is ordered separately. When the kit is ordered with an assembly this number will change to indicate the number of valves in the stack.

How to Order SM16 for MAConnect™ Serial Manifold

MAConnect™

SM16 - XX A - X X X - XX M - X X XX

Protocol
DN DeviceNet

Output Indicator Lights
0 St'd (No Lights)

Power Connector
DeviceNet
A 3 Pin Micro

Bus Connector
DeviceNet
A 5 Pin Micro

Inputs
00 No Inputs

Location of MAConnect Adapter
0 No Adapter
1 Left End
2 Right End
Adapter has common inlet and exhaust ports

Thread Type
0 No adapter
A Int. NPTF
B Ext. NPTF
C Int. BSPPL
D Ext. BSPPL
E Int. BSPTR
F Ext. BSTPR

Valve Series Adapter
00 No Adapter
92 92 Series
82 82 Series
47 47 Series
42 42 Series
48 48 series
32 32 Series
P1 MV-P1 Series
P2 MV-P2 Series
45 45 Series
38 38 Series
44 44 Series
93 93 Series
46 46 Series
36 36 Series

Revised 10/02

How to Order SM32 for MAConnect™ Serial Manifold

MAConnect™

SM32 - XX A - X X X - X X M - X X XX -9

Protocol
DN DeviceNet
PB Profibus
IB Interbus-S
AB Allen Bradley Remote IO
AS AS-I

Output Indicator Lights
Monitoring Valve Signal
A St'd (16)
Monitoring Bus Logic Signal
B St'd (16)

ASI Available Only w/ (B) Monitoring Signal

Power Connector
DeviceNet
A 3 Pin Mini
B 4 Pin Mini
C 3 Pin Micro
E 4 Pin Mini Side Mount

Profibus & Interbus-S
F 3 Pin Mini
H 4 Pin Mini

AB Remote IO
G 5 Pole Term.
B 4 Pin Mini

AS-I
D 4 Pin Micro

Bus Connector
DeviceNet
A 5 Pin Mini
B 5 Pin Micro
C 5 Pin Mini End Mount 2 Conn.

Profibus
D 9 Pin Sub-D

Interbus-S
E 9 Pin Sub-D Male & Female

AB Remote IO
F 3 Pole Term.
G 4 Pin Micro (2 4-Pin Connectors)

AS-I
G 4 Pin Micro 2 Conn.
H 4 Pin Micro 2 Conn. w/ 2 Prog. Ports

Inputs
A No Inputs
B 1 Input
C 2 Inputs
D 3 Inputs
E 4 Inputs
F * Tethered 16 Inputs 8 on AS-I

*"F" Option required for remote tethered box or MAConnect input modules. Choose option "A" for "Input Types"

Input Types
A No Inputs
B NPN
C PNP

Location of MAConnect Adapter
0 No Adapter
1 Left End
2 Right End

Pilot and Thread Type
0 No adapter
A Int. NPTF
B Ext. NPTF
C Int. BSPPL
D Ext. BSPPL
E Int. BSPTR
F Ext. BSTPR
** N No Pilot Port

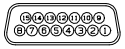
** 82 Series Only

Valve Series Adapter
00 No Adapter
42 42 Series
47 47 Series
48 48 Series
82 82 Series
92 92 Series
32 32 Series
P1 MV-P1 Series
P2 MV-P2 Series
45 45 Series
38 38 Series
44 44 Series
93 93 Series
46 46 Series
36 36 Series

Revised 10/02

PIN #	SOLENOID #
1	1
2	2
~	~
20	20
21	+ COMMON
22	+ COMMON
23	+ COMMON
24	+ COMMON
25	+ COMMON

25 PIN SUB-D

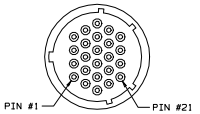


PIN #	SOLENOID #
1	1
2	2
~	~
13	13
14	+ COMMON
15	+ COMMON

15 PIN SUB-D

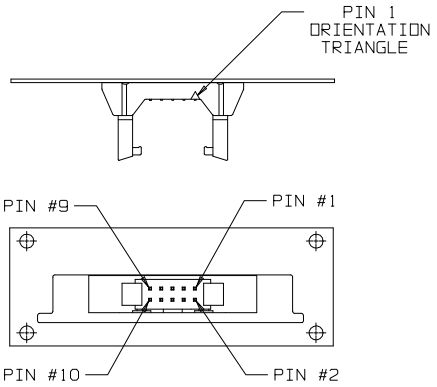
PIN #	SOLENOID #
1	1
2	2
~	~
8	8
9	+ COMMON

9 PIN SUB-D



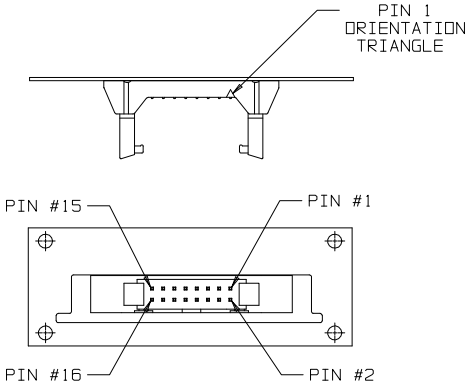
PIN #	SOLENOID #
1	1
2	2
~	~
20	20
21	+ COMMON
22	+ COMMON
23	+ COMMON
24	+ COMMON

24 PIN AMP CPC



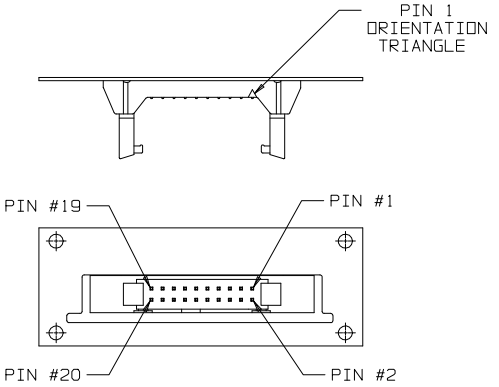
PIN #	SOLENOID #
1	1
2	2
~	~
8	8
9	+ COMMON
10	+ COMMON

10 PIN



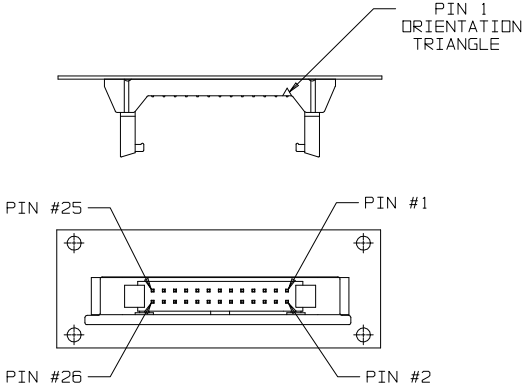
PIN #	SOLENOID #
1	1
2	2
~	~
12	12
13	+ COMMON
14	+ COMMON
15	+ COMMON
16	+ COMMON

16 PIN



PIN #	SOLENOID #
1	1
2	2
~	~
16	16
17	+ COMMON
18	+ COMMON
19	+ COMMON
20	+ COMMON

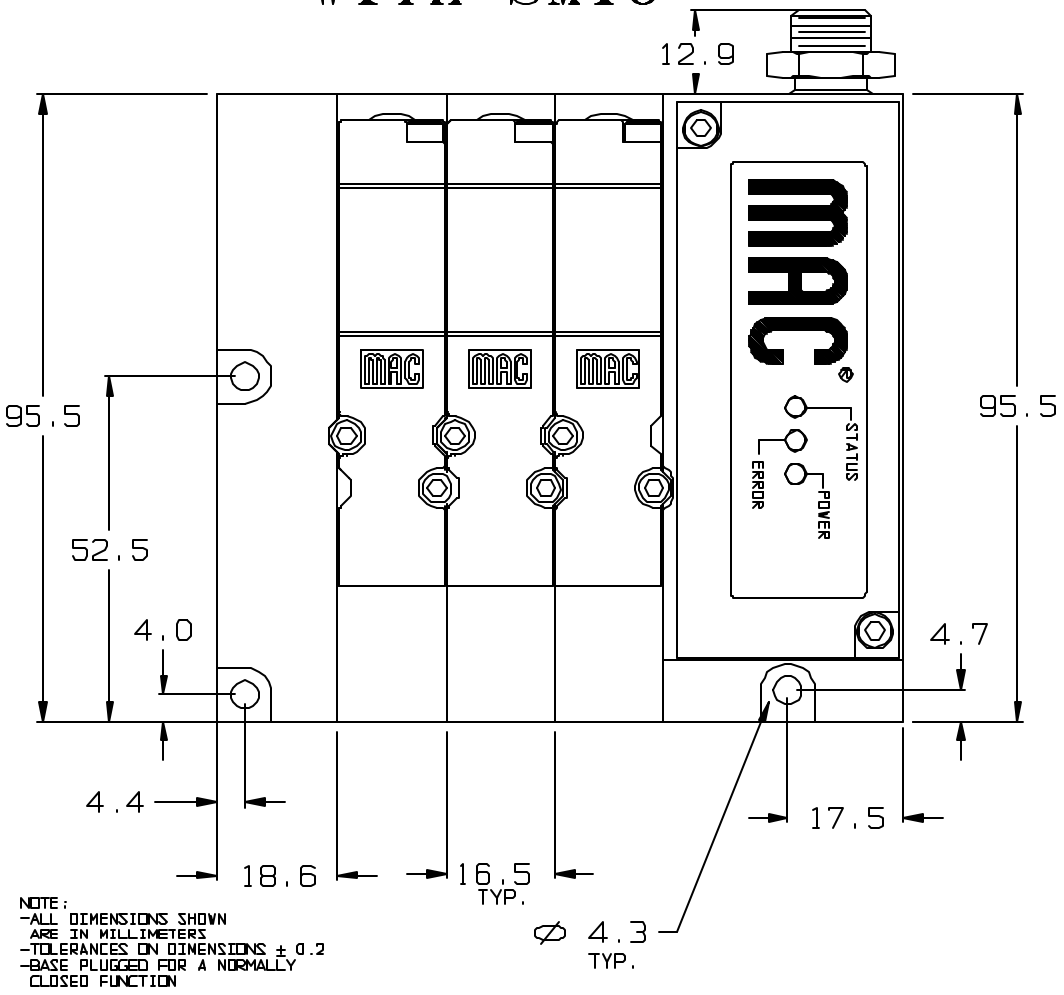
20 PIN

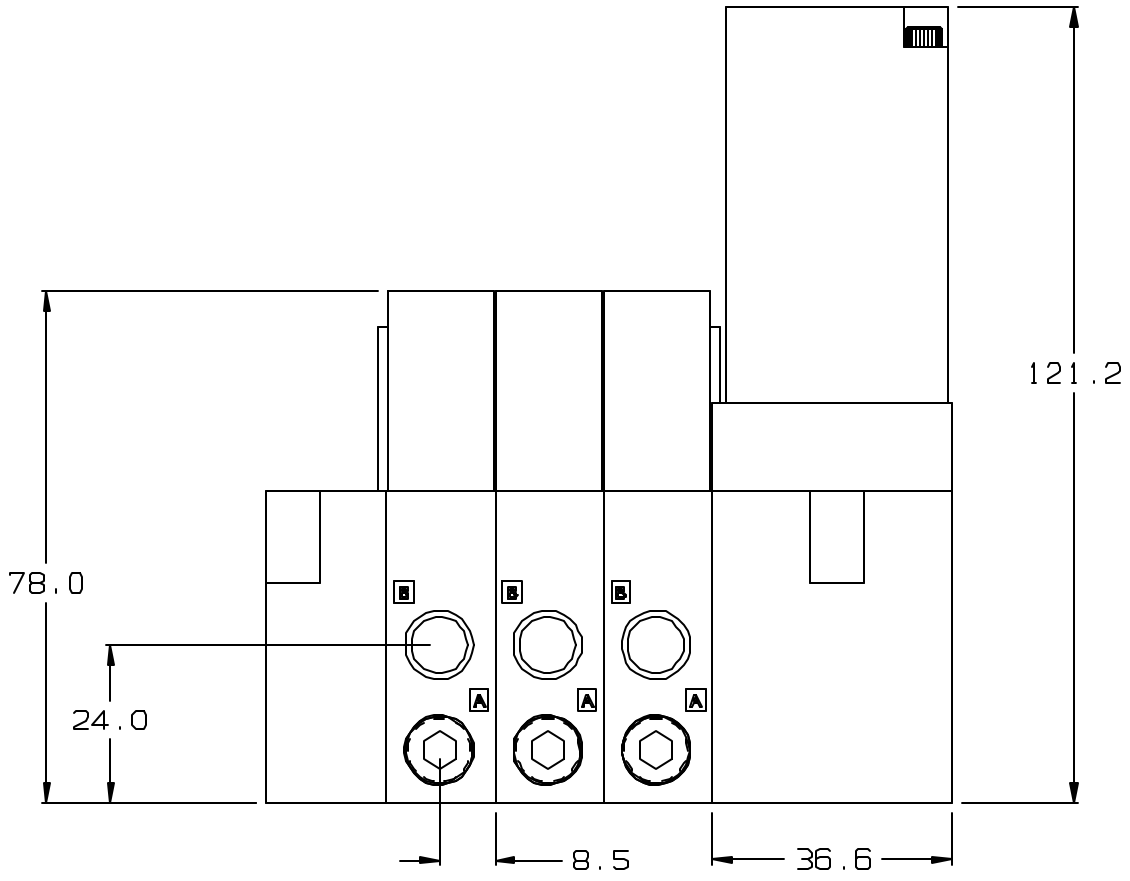


PIN #	SOLENOID #
1	1
2	2
~	~
20	20
21	+ COMMON
22	+ COMMON
23	+ COMMON
24	+ COMMON
25	+ COMMON
26	+ COMMON

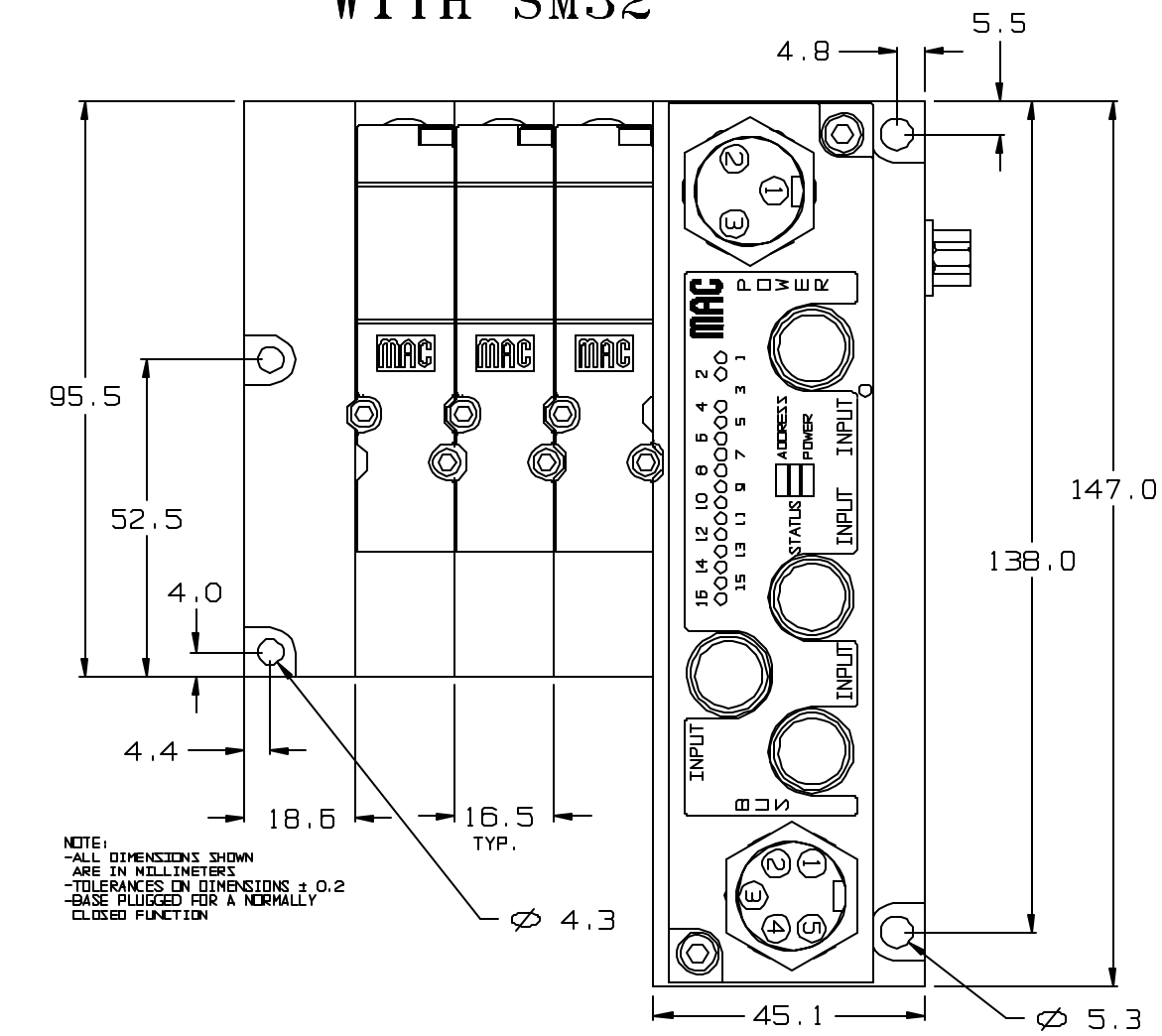
26 PIN

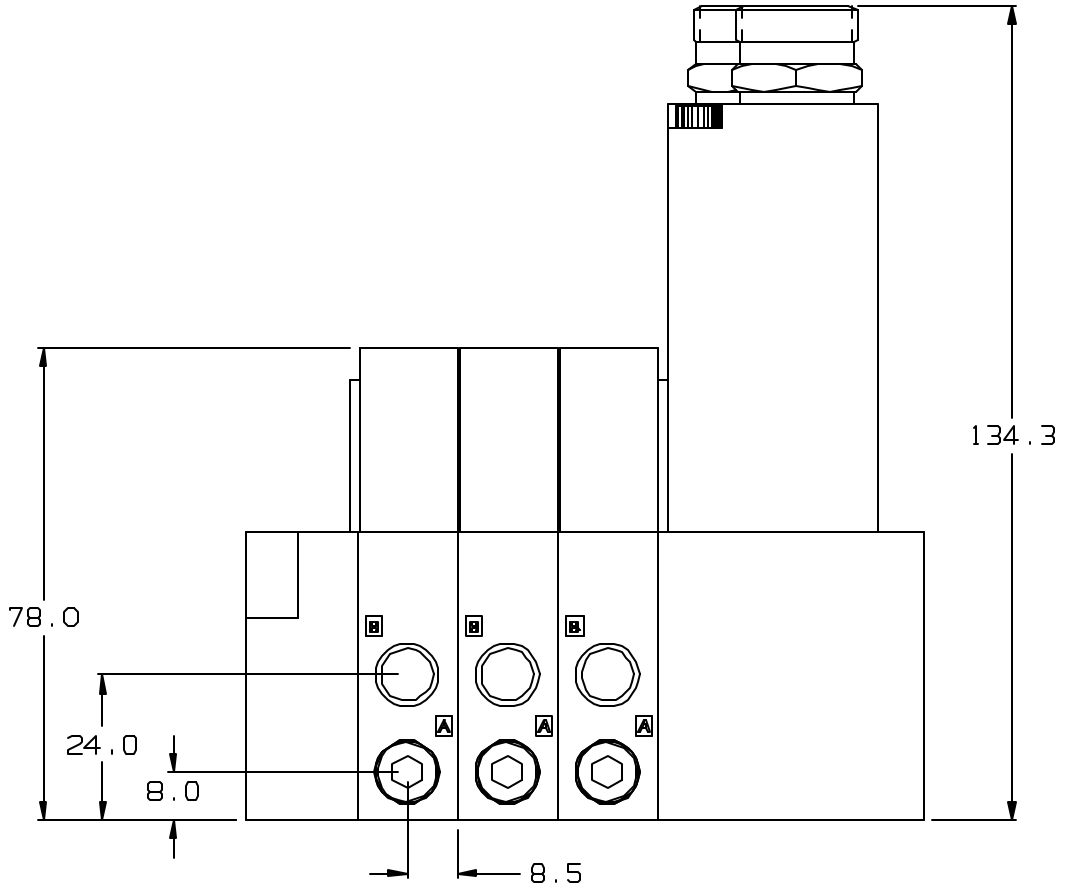
36 SERIES MACONNECT WITH SM16





36 SERIES MACONNECT WITH SM32





Sandwich-pressure regulator

OPERATIONAL BENEFITS

1. Easy mounting: saves on installation costs in comparison with inline regulators.
2. Compact all included units.
3. Large orifice provides high flow.
4. Various functions available.
5. Simple, reliable and solid design.
6. Single pressure regulator.

HOW TO ORDER

REGULATORS FOR "PLUG-IN" AND "NON PLUG-IN" VALVES

Gauge	For plug-in valves	For non plug-in valves
Gauge port (plugged)	PR46A-AAAA	PR46A-BAAA

OPTIONS

Pressure range :

PR46A-A**A**A **A**

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

- **A** Manual adjust with slotted screwdriver stem
- **B** Manual adjust with adjusting knob
- **C** Manual adjust with slotted screwdriver stem and locknut

- **0** Regulator only (No sandwich block)

Notes : gadges must be ordered separately, not included with regulator.
Recommended gage : 24165-150 (15 mm)

PR37A
PR42B
PR46A
PR47A
PR48B
PR92C
PR93A
PRA01A
PRA02A
PRA1A
PRP1A
PRA2D
PRP2B
PRA3C
PRP3B

MAC

Series **PR46A**

100% OF PRODUCTION TESTED 100%

WARRANTY 18 MONTHS

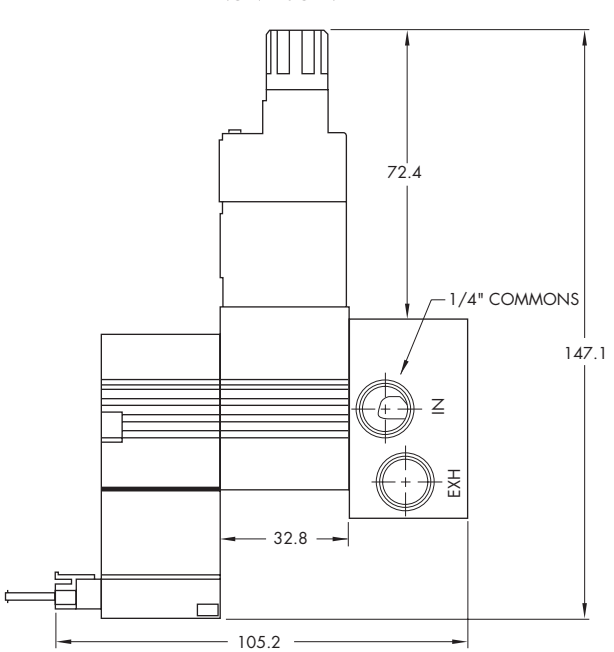
TECHNICAL DATA

Fluid :	Compressed air, inert gases
Pressure range :	0 to 120 PSI
Regulating range :	0 to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to +50°C)
Flow :	Cv 0,21

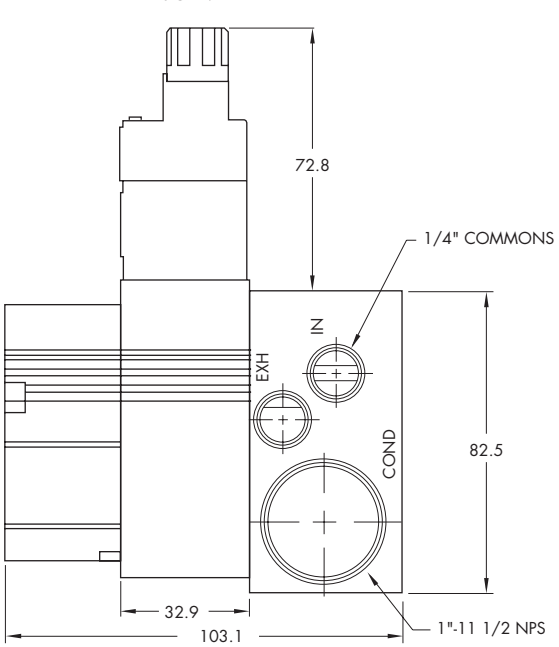
DIMENSIONS

Dimensions shown are metric (mm)

NON PLUG-IN



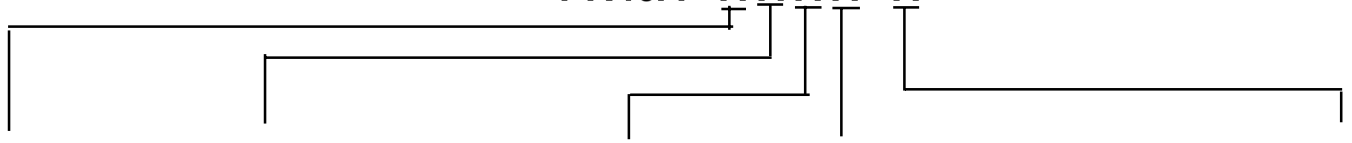
PLUG-IN



Consult "Precautions" page 327 before use, installation or service of MAC Valves..

How to Order
36 / 46 Series Regulator

PR46A - X X X X - X



Style

0 Regulator Only

Type Adjustment

A Slotted Stem
B Adjusting Knob
C Slotted Stem w/ Locknut

Gages

A Gage Port Plugged

Pressure Range

A 0 to 120 PSI
B 0 to 80 PSI
C 0 to 30 PSI

Assembled

9 Regulator Block is assembled to valve

Notizen

as-tec
Mechatronik GmbH

as-tec Mechatronik GmbH

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m: office@as-tec.at
w³: www.as-tec.at

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