

Алматы (7273)495-231
 Ангарск (3955)60-70-56
 Архангельск (8182)63-90-72
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
 Белгород (4722)40-23-64
 Благовещенск (4162)22-76-07
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Владикавказ (8672)28-90-48
 Владимир (4922)49-43-18
 Волгоград (844)278-03-48
 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
 Ижевск (3412)26-03-58
 Иркутск (395)279-98-46
 Казань (843)206-01-48
 Калининград (4012)72-03-81
 Калуга (4842)92-23-67
 Кемерово (3842)65-04-62
 Киров (8332)68-02-04
 Коломна (4966)23-41-49
 Кострома (4942)77-07-48
 Краснодар (861)203-40-90
 Красноярск (391)204-63-61
 Курск (4712)77-13-04
 Курган (3522)50-90-47
 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
 Москва (495)268-04-70
 Мурманск (8152)59-64-93
 Набережные Челны (8552)20-53-41
 Нижний Новгород (831)429-08-12
 Новокузнецк (3843)20-46-81
 Ноябрьск (3496)41-32-12
 Новосибирск (383)227-86-73
 Омск (3812)21-46-40
 Орел (4862)44-53-42
 Оренбург (3532)37-68-04
 Пенза (8412)22-31-16
 Петрозаводск (8142)55-98-37
 Псков (8112)59-10-37
 Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
 Рязань (4912)46-61-64
 Самара (846)206-03-16
 Санкт-Петербург (812)309-46-40
 Саратов (845)249-38-78
 Севастополь (8692)22-31-93
 Саранск (8342)22-96-24
 Симферополь (3652)67-13-56
 Смоленск (4812)29-41-54
 Сочи (862)225-72-31
 Ставрополь (8652)20-65-13
 Сургут (3462)77-98-35
 Сыктывкар (8212)25-95-17
 Тамбов (4752)50-40-97
 Тверь (4822)63-31-35

Тольятти (8482)63-91-07
 Томск (3822)98-41-53
 Тула (4872)33-79-87
 Тюмень (3452)66-21-18
 Ульяновск (8422)24-23-59
 Улан-Удэ (3012)59-97-51
 Уфа (347)229-48-12
 Хабаровск (4212)92-98-04
 Чебоксары (8352)28-53-07
 Челябинск (351)202-03-61
 Череповец (8202)49-02-64
 Чита (3022)38-34-83
 Якутск (4112)23-90-97
 Ярославль (4852)69-52-93

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Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

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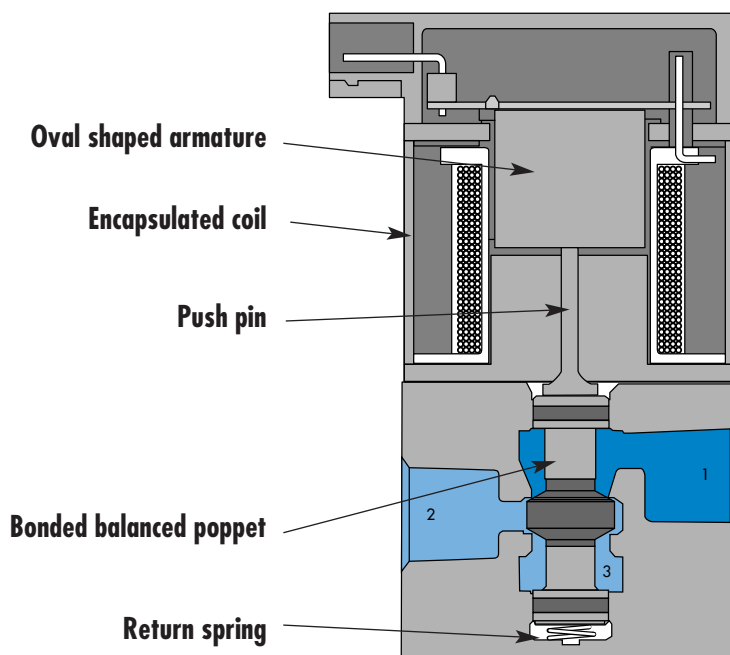
Direct solenoid and solenoid pilot operated valves

Individual mounting

Inline

Manifold mounting

Stacking	Manifold base "plug-in"	Manifold base "plug-in" with pressure regulators
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SERIES FEATURES

- Patented high force MACSOLENOID® for fastest possible response times.
- Bonded balanced poppet for high flow, precise repeatability, and consistent operation.
- Balanced poppet permits versatility in function — may be used as 3-way or 2-way normally open or normally closed and may be used for vacuum, divertor, or selector applications.
- Extremely high cycle rate capability.
- Use on lube or non-lube service.
- Manual overrides as standard.
- Various solenoid enclosures and plug-in connectors.
- Optional surge suppression available.
- Low wattage DC solenoids — down to 1.8 watts.
- Rectified AC voltage.

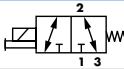
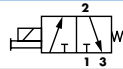
Function	Port size	Flow [Max]	Individual mounting	Series
3/2	1/8"	0.3 C_v	Inline	

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

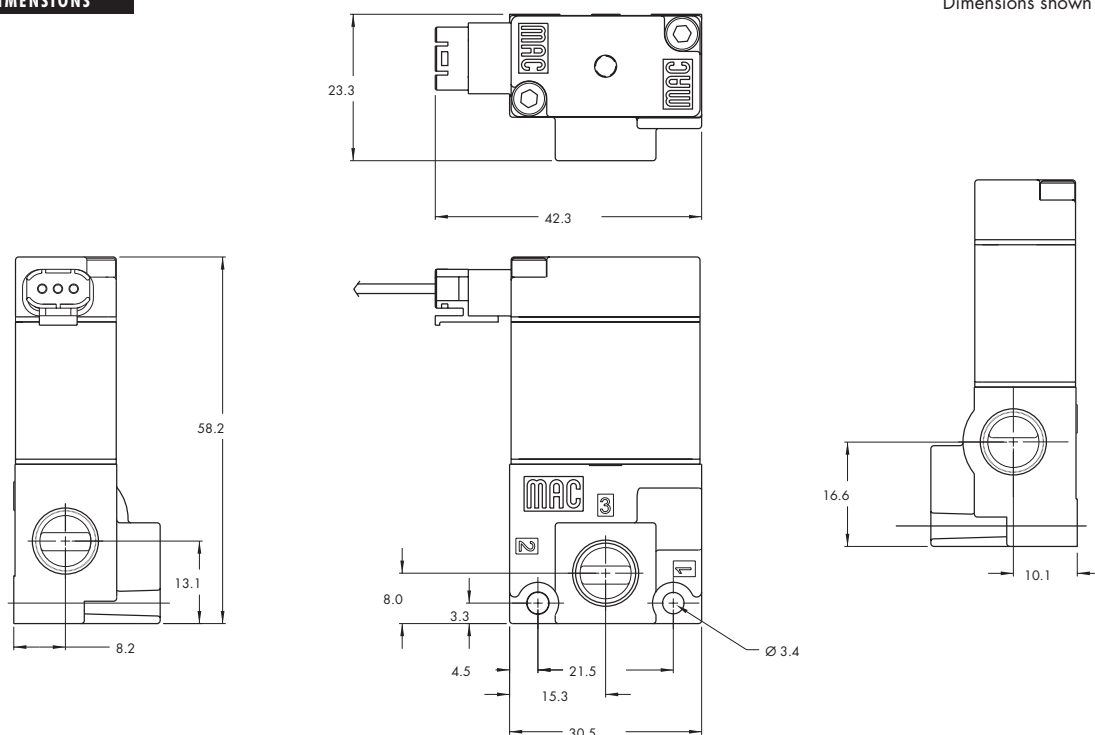
TECHNICAL DATA

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)



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.



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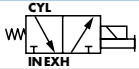
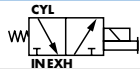
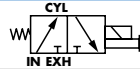
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ISO 01
ISO 02
ISO 1
ISO 2
ISO 3

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

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

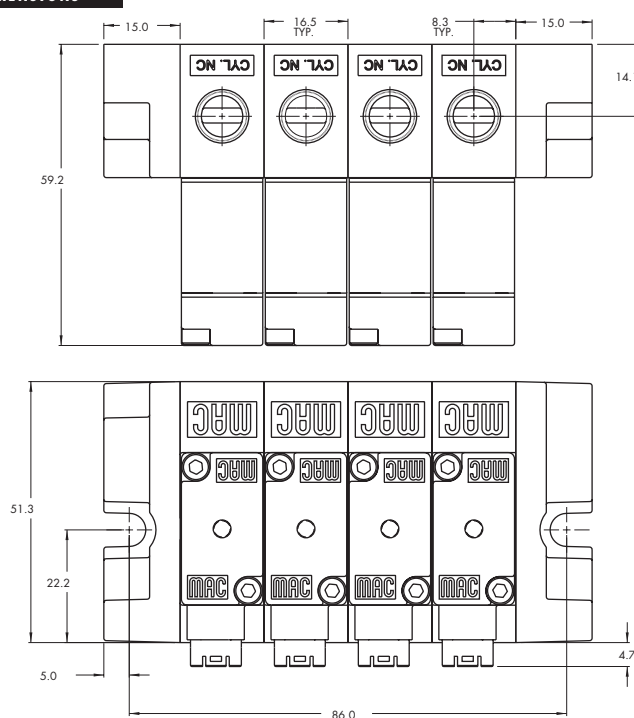
- S** Stacking body
- T** Stacking body with bottom inlet

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

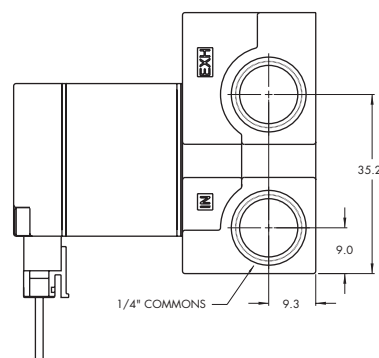
- Option :
- BSPP threads
- Spare parts :
- Inlet & exhaust isolator plate : N-36001 • Inlet isolator : N-36002
 - Exhaust isolator : N-36003 • Tie rod (x2) : 79411

DIMENSIONS



Dimensions shown are metric (mm)

Note: Isolator adds 2.5 mm to length of stack.



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.



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ISO 01
ISO 02
ISO 1
ISO 2
ISO 3

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

* 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.

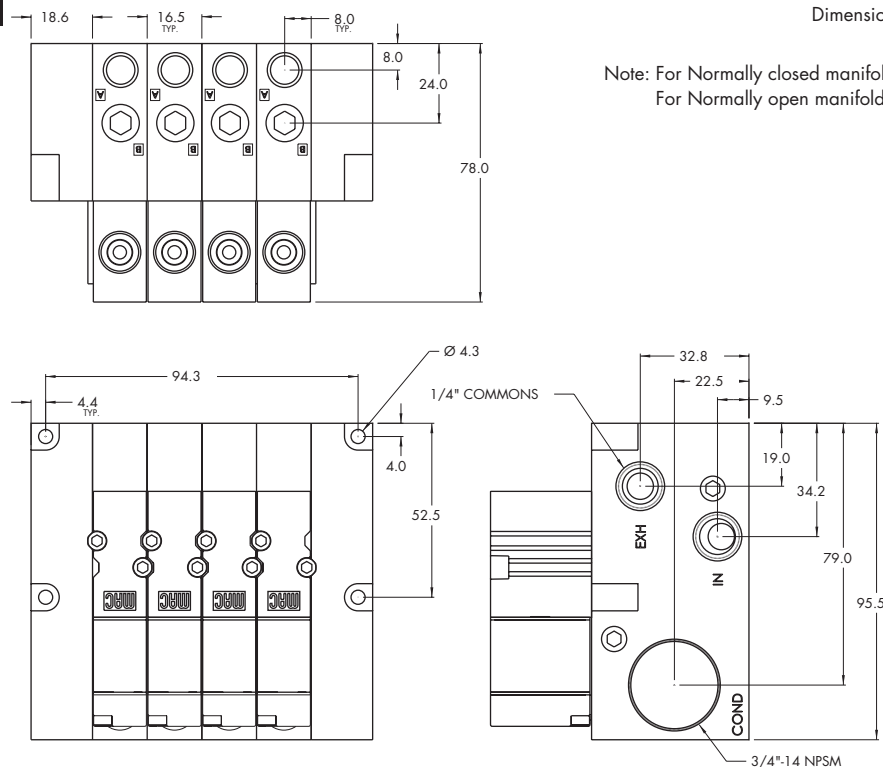
TECHNICAL DATA

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.

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.



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ISO 01

ISO 02

ISO 1

ISO 2

ISO 3

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

* Other options available, see page 317.

Note : AC voltage requires connector with rectifier.

OPTIONS

36A-JSA-AG-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-AH-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-OSA-AJ (Normally closed manifold base & regulator with knob).

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

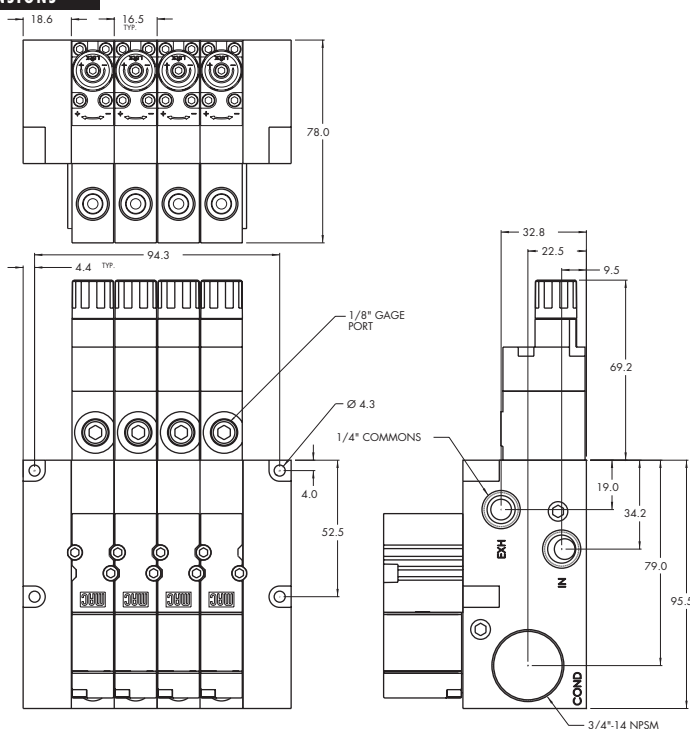
TECHNICAL DATA

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

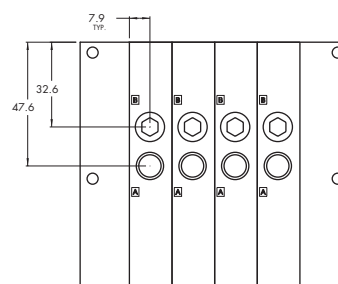
- Option : • BSPP threads
- Spare parts : • Inlet isolator : 28501 • Exhaust isolator : 28502 • Valve cover plate : M-46002
• Tie rod (x2) : 79443

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.



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

1. VOLTAGE	
<i>J-XX X-X XX</i>	VOLTAGE
<i>AA</i>	120VAC (5.4W)
<i>AC</i>	24VAC (5.4W)
<i>DE</i>	24VDC (1.8W)
<i>DF</i>	12VDC (1.8W)
<i>DJ</i>	24VDC (1.3W)
<i>DL</i>	12VDC (1.3W)
<i>DR</i>	12VDC (1.0W)*
<i>DU</i>	24VDC (1.0W)*
* Not available on 36 series universal valve	

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

3. MANUAL OPERATOR	
<i>J-XX X-X XX</i>	MANUAL OPERATOR
<i>0</i>	No operator
<i>1</i>	Non-locking recessed
<i>2</i>	Locking recessed
<i>3</i>	Non-locking extended
<i>4</i>	Locking extended

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

<i>J-XX X-X XX</i>	CONNECTORS FOR NON PLUG-IN VALVES
<i>*JL</i>	Square Connector with Rectifier with light
<i>*JJ</i>	Square Connector Male only (Plain)
<i>*JB</i>	Rectangular Connector
<i>*JD</i>	Rectangular Connector with light
<i>*JN</i>	Rectangular Connector with diode
<i>*JP</i>	Rectangular Connector with MOV
<i>*JR</i>	Rectangular Connector with diode/light
<i>*JS</i>	Rectangular Connector with MOV /light
<i>*JT</i>	Rectangular Connector with Rectifier
<i>*JU</i>	Rectangular Connector with Rectifier with light
<i>*JM</i>	Rectangular Connector Male only (Plain)
* Not available on manifold or stacking valves	

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

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

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

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