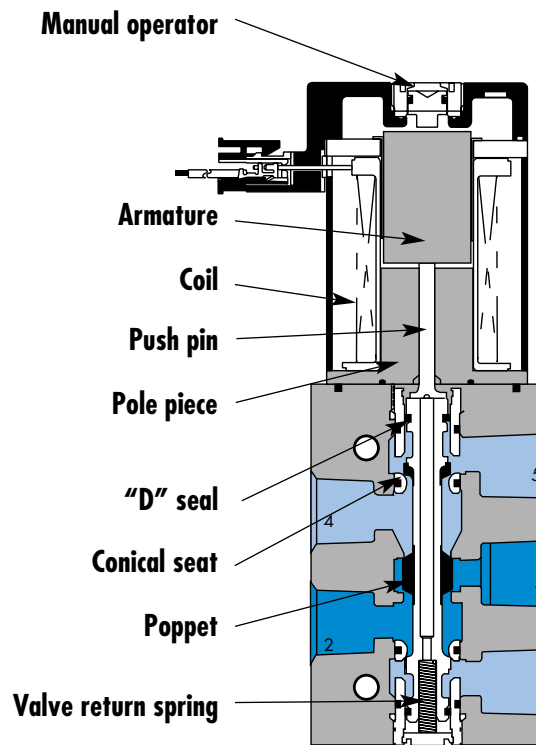


Circuit bar mounting

non plug-in cyl. ports in valve with opt. F. C.	non plug-in cyl. ports in base with opt. F. C.	add-on style non plug-in cyl. ports in valve with opt. F. C.	add-on style non plug-in cyl. ports in base with opt. F. C.	non plug-in cyl. ports in valve with opt. Pr. Reg.	non plug-in cyl. ports in base	non plug-in cyl. ports in base with Pr. Reg.	add-on style non plug-in cyl. ports in base
add-on style non plug-in cyl. ports in base with Pr. Reg.	plug-in	plug-in with Pr. Reg.	add-on style plug-in	add-on style plug-in with Pr. Reg.	plug-in add-a-unit stations	plug-in add-a-unit stations with Pr. Reg.	



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 (Inlet & Exhaust)	Flow [Max]	Circuit bar mounting	Profile
5/2	3/8"	0.5C_v	non plug-in cyl. ports in valve with opt. F. C.	29 mm

OPERATIONAL BENEFITS

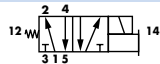
1. Direct solenoid operated valve.
2. Balanced poppet, immune to variations of pressure.
3. Short stroke with high flow.
4. The patented solenoid develops high shifting forces.
5. Powerful return spring.
6. Manual operator standard on all valves.

Reset

HOW TO ORDER

47A-xxx-Hxxx-xxx

HOW TO ORDER VALVE FOR CIRCUIT BAR MOUNTING

Valve port size	Valve less base
1/8" NPTF	 ☐ 47A-MG0-Hxxx-xxx
1/4" NPTF	☐ 47A-MH0-Hxxx-xxx

SOLENOID OPERATOR ➤

H **xx x- x xx**

xx Voltage	x Wire length	x Manual operator	xx Electrical connection
☐ DA 24VDC (5.2 W)	☐ A 18"	☐ 1 Non-locking	☐ BA Flying leads
☐ DB 24VDC (2.4 W)	☐ C 36"		☐ BC Flying leads with light
☐ DC 24VDC (1.8 W)	☐ x Other Options		☐ MA Plug-in wire assy
☐ DD 24VDC (1.0 W)			☐ MC Plug-in wire assy with light
☐ AA 120VAC (must use with rectified connector)			☐ HA Plug-in connector with rectifier and light
☐ xx Other Options			☐ xx Other Options

HOW TO ORDER CIRCUIT BAR

EBM47A-xxxxx-xx

Port size COMMON INLET & EXHAUST	Without flow controls (20 mm)	With flow controls (20 mm)
3/8" NPTF	☐ EBM47A-01CAK-xx	☐ EBM47A-01DAK-xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).

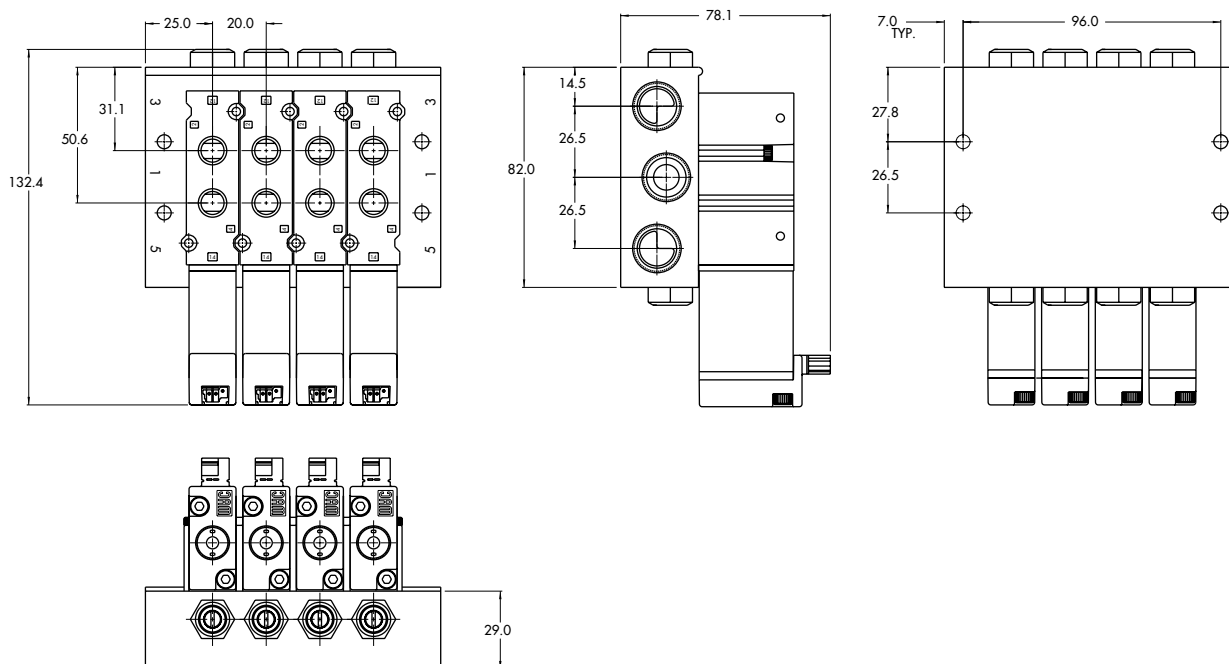


**TECHNICAL
DATA**

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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

- Note :
- Valve and coil are not interchangeable.
- Spare parts :
- Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47002.
 - Flow control kit (x2) : N-37001.
- Options :
- Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS



Function	Port size	Flow [Max]	Circuit bar mounting	Profile
5/2	1/8" - 1/4" 6 mm tube receptacle	0.5C_v	non plug-in cyl. ports in base with opt. F. C.	29 mm

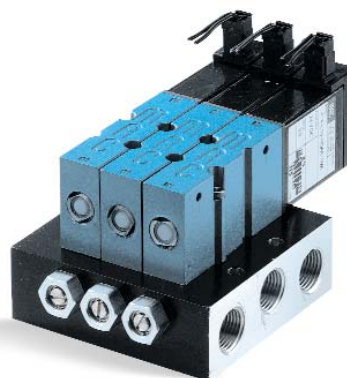
OPERATIONAL BENEFITS

1. Direct solenoid operated valve.
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. Manual operator standard on all valves.

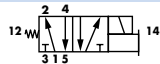
Reset

HOW TO ORDER

47A-xxx-Hxxx-xxx



HOW TO ORDER VALVE FOR CIRCUIT BAR MOUNTING

Port size (see base)	Valve
Valve less base	 ☐ 47A-LI0-Hxxx-xxx

SOLENOID OPERATOR ➤

H **xx x- x xx'**

xx Voltage	x Wire length	x Manual operator	xx Electrical connection
☐ DA 24VDC (5.2 W)	☐ A 18"	☐ I Non-locking	☐ BA Flying leads
☐ DB 24VDC (2.4 W)	☐ C 36"		☐ BC Flying leads with light
☐ DC 24VDC (1.8 W)	☐ x Other Options		☐ MA Plug-in wire assy
☐ DD 24VDC (1.0 W)			☐ MC Plug-in wire assy with light
☐ AA 120VAC (must use with rectified connector)			☐ HA Plug-in connector with rectifier and light
☐ xx Other Options			☐ xx Other Options

HOW TO ORDER CIRCUIT BAR

EBM47A-xxxxx-xx

Port size	Bottom cylinder ports (18 mm)	Bottom cylinder ports with flow controls (18 mm)
1/8" NPTF	☐ EBM47A-00AAA-xx	☐ EBM47A-00BAA-xx
1/4" NPTF	☐ EBM47A-00AAB-xx	☐ EBM47A-00BAB-xx
6 mm tube receptacle	☐ EBM47A-00AAG-xx	☐ EBM47A-00BAG-xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).



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

**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)
Orifice :	4.3 mm
Flow (at 6 bar, $\Delta P=1\text{bar}$) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

Note :

- Valve and coil are not interchangeable.

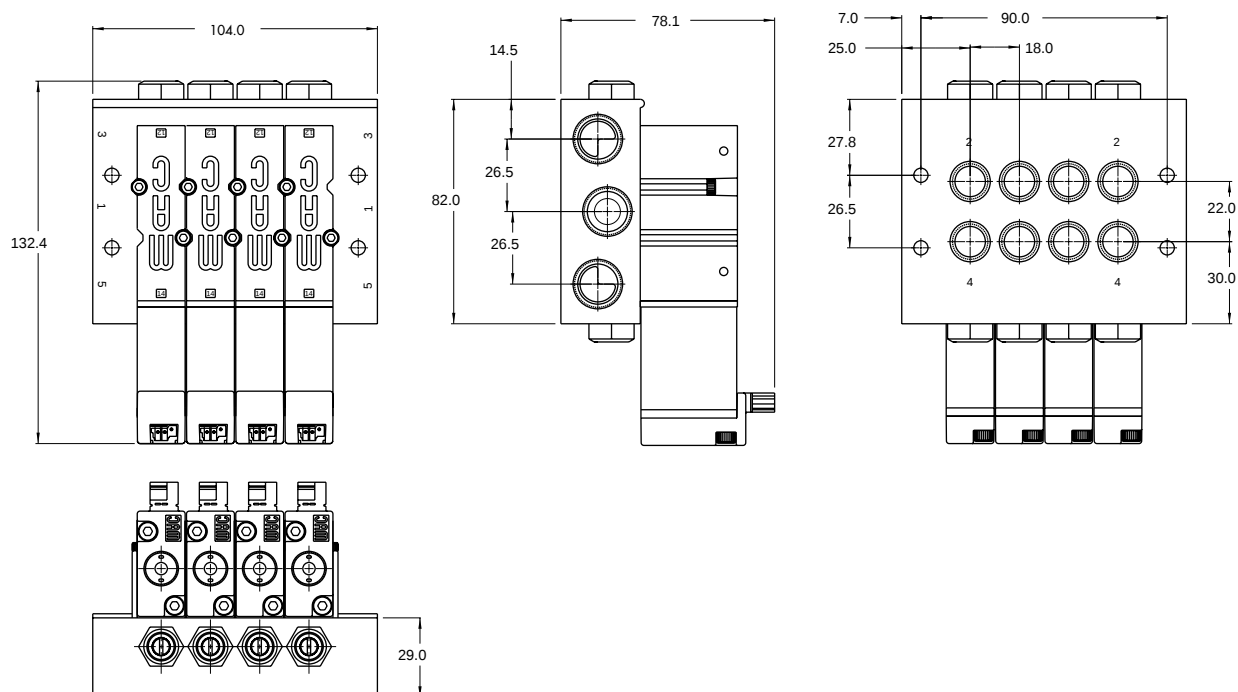
Spare parts :

- Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001.
- Flow control kit (x2) : N-37001.

Options :

- Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS



Function	Port size (Inlet & Exhaust)	Flow [Max]	Circuit bar mounting	Profile
5/2	3/8"	0.5C_v	add-on style non plug-in cyl. ports in valve with opt. F. C.	35 mm

OPERATIONAL BENEFITS

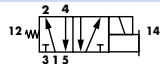
1. Direct solenoid operated valve.
2. Balanced poppet, immune to variations of pressure.
3. Short stroke with high flow.
4. The patented solenoid develops high shifting forces.
5. Powerful return spring.
6. Manual operator standard on all valves.

Reset

HOW TO ORDER

47A-xxx-Hxxx-xxx

HOW TO ORDER VALVE FOR CIRCUIT BAR MOUNTING

Valve port size	Valve
	
1/8" NPTF	☐ 47A-MG0-Hxxx-xxx
1/4" NPTF	☐ 47A-MH0-Hxxx-xxx

SOLENOID OPERATOR ➤

H **xx x- x xx'**

xx Voltage	x Wire length	x Manual operator	xx Electrical connection
☐ DA 24VDC (5.2 W)	☐ A 18"	☐ I Non-locking	☐ BA Flying leads
☐ DB 24VDC (2.4 W)	☐ C 36"		☐ BC Flying leads with light
☐ DC 24VDC (1.8 W)	☐ x Other Options		☐ MA Plug-in wire assy
☐ DD 24VDC (1.0 W)			☐ MC Plug-in wire assy with light
☐ AA 120VAC (must use with rectified connector)			☐ HA Plug-in connector with rectifier and light
☐ xx Other Options			☐ xx Other Options

HOW TO ORDER CIRCUIT BAR

EBM47A-xxxxx-xx

Port size COMMON INLET & EXHAUST	Without flow controls (20 mm)	With flow controls (20 mm)
3/8" NPTF	☐ EBM47A-01GBK-xx	☐ EBM47A-01HBK-xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).
add-a-unit stations may be added to above bars.
Maximum length for add-a-unit is 4 stations.

OPTIONS

EBM47A-01GBK-xx

- ☐ clic replace with "C" for add-a-unit.

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

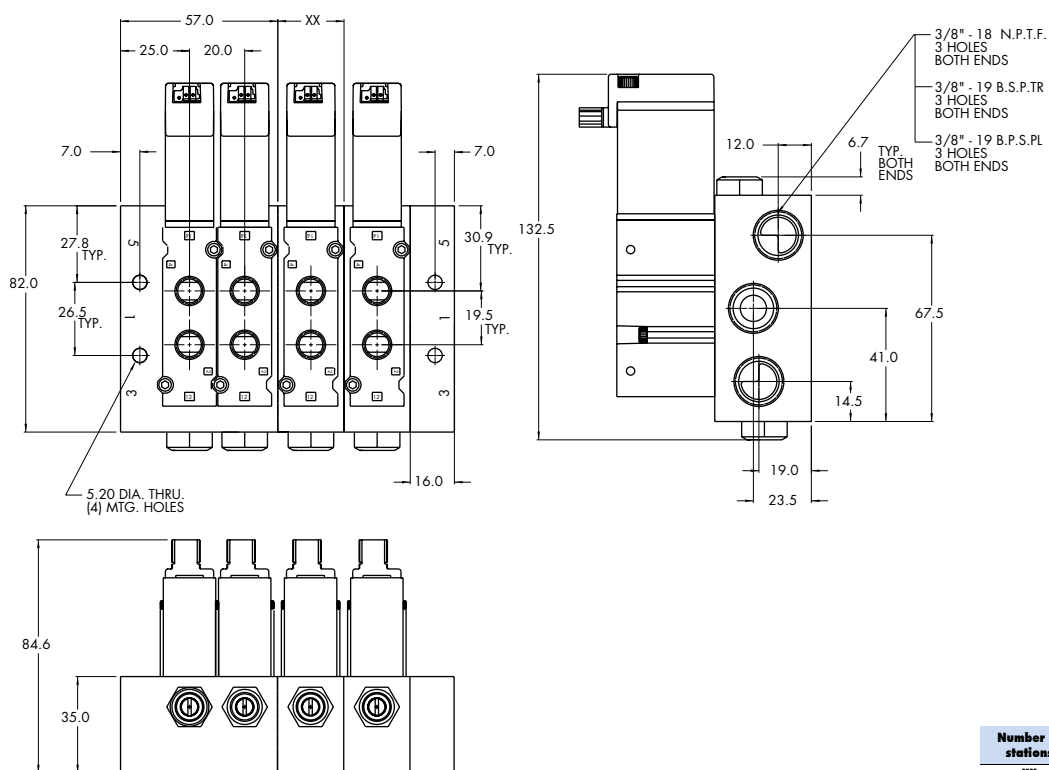


**TECHNICAL
DATA**

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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

- Note : • Valve and coil are not interchangeable.
- Spare parts : • Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47002.
• Flow control kit (x2) : N-37001. End plate kit : M-47004-01.
- Options : • Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS



Number of stations	1	2	3	4
XX	24.0	44.0	64.0	84.0

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



Function	Port size	Flow [Max]	Circuit bar mounting	Profile
5/2	1/8" - 1/4" 6 mm tube receptacle	0.5C_v	add-on style non plug-in cyl. ports in base with opt. F. C.	35 mm

OPERATIONAL BENEFITS

1. Direct solenoid operated valve.
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. Manual operator standard on all valves.

Reset

HOW TO ORDER

47A-xxx-Hxxx-xxx

HOW TO ORDER VALVE FOR CIRCUIT BAR MOUNTING

Port size (see base)	Valve
Valve less base	 ☐ 47A-LI0-Hxxx-xxx

SOLENOID OPERATOR ➤

H **xx x- x xx'**

XX Voltage	X Wire length	X Manual operator	XX Electrical connection
☐ DA 24VDC (5.2 W)	☐ A 18"	☐ I Non-locking	☐ BA Flying leads
☐ DB 24VDC (2.4 W)	☐ C 36"		☐ BC Flying leads with light
☐ DC 24VDC (1.8 W)	☐ x Other Options		☐ MA Plug-in wire assy
☐ DD 24VDC (1.0 W)			☐ MC Plug-in wire assy with light
☐ AA 120VAC (must use with rectified connector)			☐ HA Plug-in connector with rectifier and light
☐ xx Other Options			☐ xx Other Options

HOW TO ORDER CIRCUIT BAR

EBM47A-xxxxx-xx

Port size	Bottom cylinder ports (18 mm)	Bottom cylinder ports with flow controls (18 mm)
1/8" NPTF	☐ EBM47A-00EBA-xx	☐ EBM47A-00FBA-xx
1/4" NPTF	☐ EBM47A-00EBB-xx	☐ EBM47A-00FBB-xx
6 mm tube receptacle	☐ EBM47A-00EBG-xx	☐ EBM47A-00FBG-xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).
add-a-unit stations may be added to above bars. Maximum length for add-a-unit is 4 stations.

OPTIONS

EBM47A-00EBA-xx

- ☐ clic replace with "C" for add-a-unit.

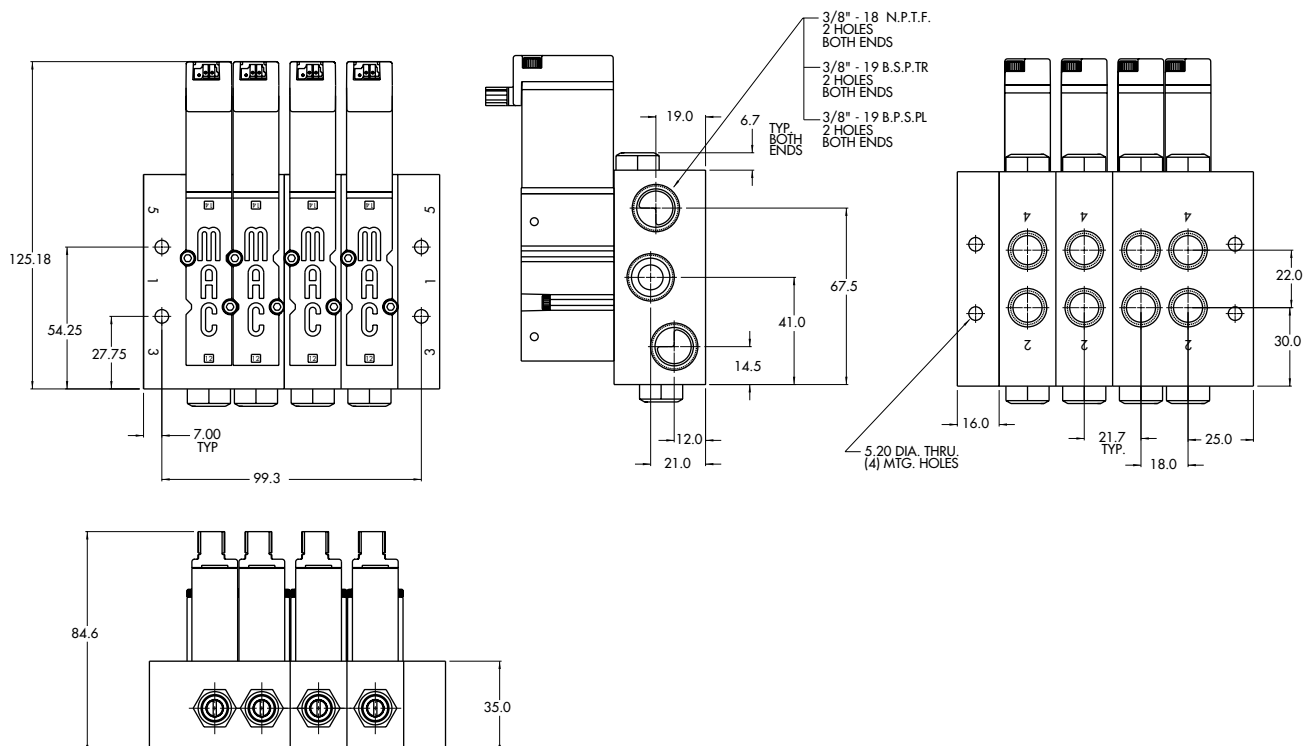
Consult "Precautions" before use, installation or service of MAC Valves.

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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

- Note :
- Valve and coil are not interchangeable.
- Spare parts :
- Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001.
 - Flow control kit (x2) : N-37001. End plate kit : M-47004-01.
- Options :
- Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS



Function	Port size (Inlet & Exhaust)	Flow [Max]	Circuit bar mounting	Profile
5/2	3/8"	0.5C_v	non plug-in cyl. ports in valve with opt. Pr. Reg.	44 mm

OPERATIONAL BENEFITS

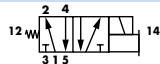
1. Direct solenoid operated valve.
2. Balanced poppet, immune to variations of pressure.
3. Short stroke with high flow.
4. The patented solenoid develops high shifting forces.
5. Powerful return spring.
6. Manual operator standard on all valves.

Reset

HOW TO ORDER

47A-xxx-Hxxx-xxx

HOW TO ORDER VALVE FOR CIRCUIT BAR MOUNTING

Valve port size	Valve
	
1/8" NPTF	☐ 47A-MG0-Hxxx-xxx
1/4" NPTF	☐ 47A-MH0-Hxxx-xxx

SOLENOID OPERATOR ➤

H **xx x- x xx'**

xx Voltage	x Wire length	x Manual operator	xx Electrical connection
☐ DA 24VDC (5.2 W)	☐ A 18"	☐ I Non-locking	☐ BA Flying leads
☐ DB 24VDC (2.4 W)	☐ C 36"		☐ BC Flying leads with light
☐ DC 24VDC (1.8 W)	☐ x Other Options		☐ MA Plug-in wire assy
☐ DD 24VDC (1.0 W)			☐ MC Plug-in wire assy with light
☐ AA 120VAC (must use with rectified connector)			☐ HA Plug-in connector with rectifier and light
☐ xx Other Options			☐ xx Other Options

HOW TO ORDER CIRCUIT BAR (REGULATOR ORDERED SEPARATELY)**

EBM47A-xxxxx-xx

Port size COMMON INLET & EXHAUST	Without regulator (20 mm)	With regulator (20 mm)
3/8" NPTF	☐ EBM47A-01NAK-xx	☐ EBM47A-01PAK-xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).

** Pressure Regulators :

PR47A-GOAx

- ☐ X=A (0 to 120 PSI)
- ☐ X=B (0 to 80 PSI)
- ☐ X=C (0 to 30 PSI)



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

**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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

Note :

- Valve and coil are not interchangeable.

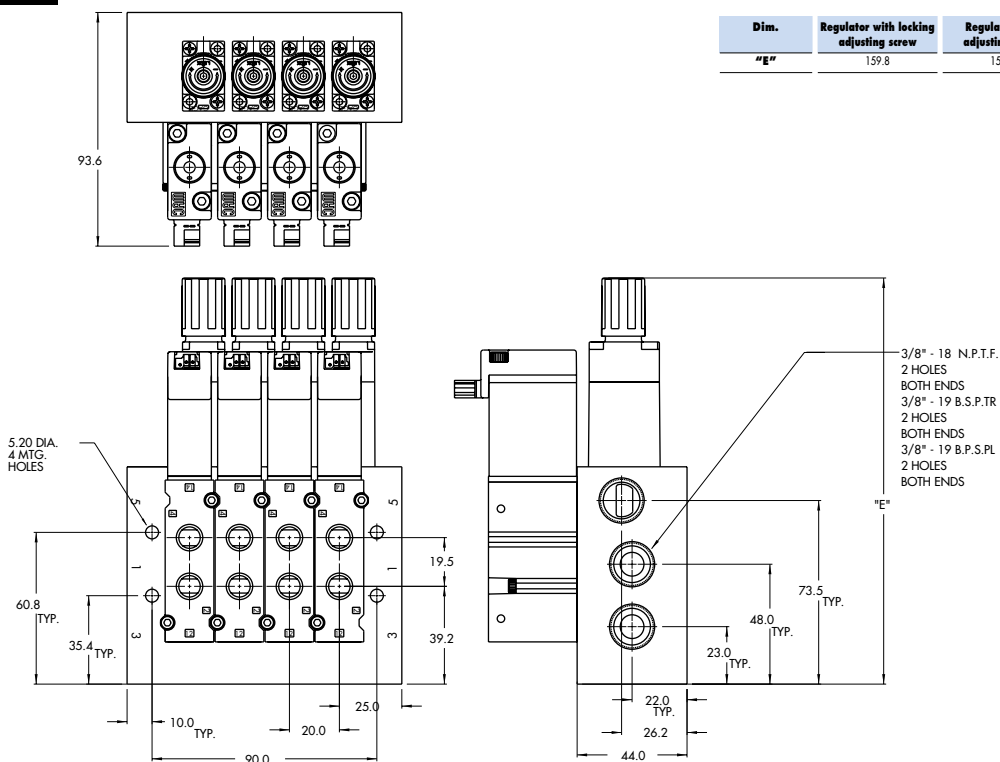
Spare parts :

- Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47002.
- Regulator blanking plate : R-47003.

Options :

- Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS



Function	Port size	Flow [Max]	Circuit bar mounting	Profile
5/2	1/8" - 1/4" 6 mm tube receptacle	0.5C_v	non plug-in cyl. ports in base	44 mm

OPERATIONAL BENEFITS

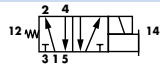
1. Direct solenoid operated valve.
2. Balanced poppet, immune to variations of pressure.
3. Short stroke with high flow.
4. The patented solenoid develops high shifting forces.
5. Powerful return spring.
6. Manual operator standard on all valves.

Reset

HOW TO ORDER

47A-xxx-Hxxx-xxx

HOW TO ORDER VALVE FOR CIRCUIT BAR MOUNTING

Port size (see base)	Valve
Valve less base	 ☐ 47A-LI0-Hxxx-xxx

SOLENOID OPERATOR ➤

H **xx x- x xx'**

XX Voltage	X Wire length	X Manual operator	XX Electrical connection
☐ DA 24VDC (5.2 W)	☐ A 18"	☐ I Non-locking	☐ BA Flying leads
☐ DB 24VDC (2.4 W)	☐ C 36"		☐ BC Flying leads with light
☐ DC 24VDC (1.8 W)	☐ x Other Options		☐ MA Plug-in wire assy
☐ DD 24VDC (1.0 W)			☐ MC Plug-in wire assy with light
☐ AA 120VAC (must use with rectified connector)			☐ HA Plug-in connector with rectifier and light
☐ xx Other Options			☐ xx Other Options

HOW TO ORDER CIRCUIT BAR

EBM47A-xxxxxx-xx

Port size	Side cylinder ports (18 mm)	Bottom cylinder ports (18 mm)
1/8" NPTF	☐ EBM47A-00JAA-xx	☐ EBM47A-00LAA-xx
1/4" NPTF	☐ EBM47A-00JAB-xx	☐ EBM47A-00LAB-xx
6 mm tube receptacle	☐ EBM47A-00JAG-xx	☐ EBM47A-00LAG-xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).



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

**TECHNICAL
DATA**

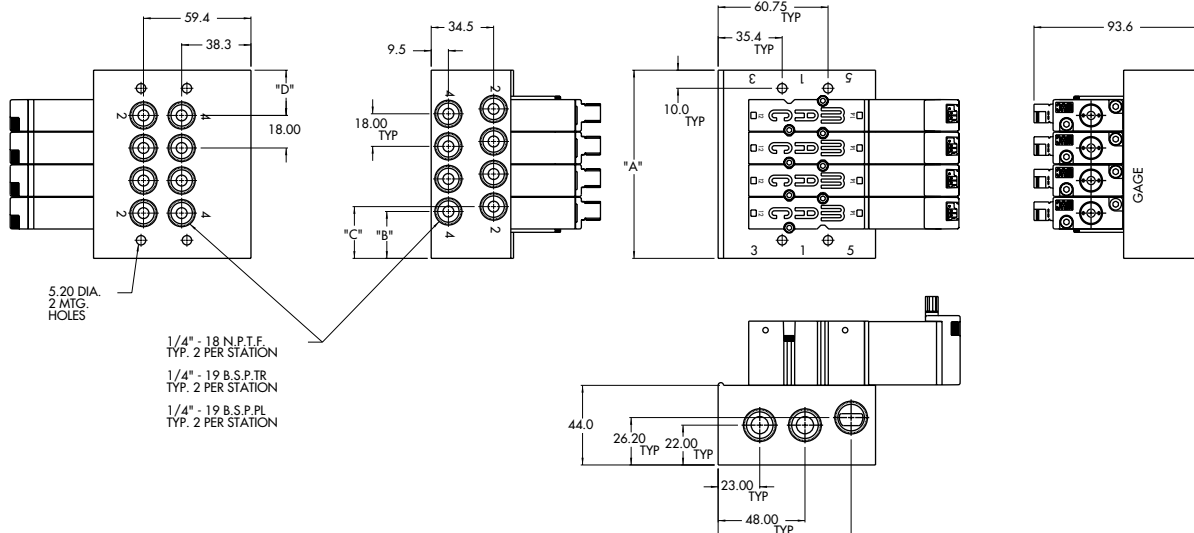
Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration :	40 µ
Temperature range :	0°F to 120°F (-18°C to 50°C)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

- Note : • Valve and coil are not interchangeable.
- Spare parts : • Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001.
- Options : • Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS

Number of stations	1	2	3	4	5	6	7	8	9	10
"A"	-	68.0	86.0	104.0	122.0	140.0	158.0	178.0	194.0	212.0
"B"	25.90	25.90	25.90	25.90	25.90	25.90	25.90	25.90	25.90	25.90
"C"	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60
"D"	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
1/4" Port	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
M6 Carstick port					N/A					

Dimensions are based on
18 mm centerline spacing



Note: Bottom & side cylinder ports not available on 1 station



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

Function	Port size	Flow [Max]	Circuit bar mounting	Profile
5/2	1/8" - 1/4" 6 mm tube receptacle	0.5C_v	non plug-in cyl. ports in base with Pr. Reg.	44 mm

OPERATIONAL BENEFITS

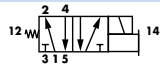
1. Direct solenoid operated valve.
2. Balanced poppet, immune to variations of pressure.
3. Short stroke with high flow.
4. The patented solenoid develops high shifting forces.
5. Powerful return spring.
6. Manual operator standard on all valves.

Reset

HOW TO ORDER

47A-xxx-Hxxx-xxx

HOW TO ORDER VALVE FOR CIRCUIT BAR MOUNTING

Port size (see base)	Valve
Valve less base	 ☐ 47A-LI0-Hxxx-xxx

SOLENOID OPERATOR ➤

H **xx** X- X **xx***

XX Voltage	X Wire length	X Manual operator	XX Electrical connection
☐ DA 24VDC (5.2 W)	☐ A 18"	☐ I Non-locking	☐ BA Flying leads
☐ DB 24VDC (2.4 W)	☐ C 36"		☐ BC Flying leads with light
☐ DC 24VDC (1.8 W)	☐ x Other Options		☐ MA Plug-in wire assy
☐ DD 24VDC (1.0 W)			☐ MC Plug-in wire assy with light
☐ AA 120VAC (must use with rectified connector)			☐ HA Plug-in connector with rectifier and light
☐ xx Other Options			☐ xx Other Options

HOW TO ORDER CIRCUIT BAR (REGULATOR ORDERED SEPARATELY)**

EBM47A-xxxxx-xx

Port size	Side cylinder ports (18 mm)	Bottom cylinder ports (18 mm)
1/8" NPTF	☐ EBM47A-00KAA-xx	☐ EBM47A-00MAA-xx
1/4" NPTF	☐ EBM47A-00KAB-xx	☐ EBM47A-00MAB-xx
6 mm tube receptacle	☐ EBM47A-00KAG-xx	☐ EBM47A-00MAG-xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).

** Pressure Regulators :

PR47A-GOAx

- ☐ X=A (0 to 120 PSI)
- ☐ X=B (0 to 80 PSI)
- ☐ X=C (0 to 30 PSI)

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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

Note :

- Valve and coil are not interchangeable.

Spare parts :

- Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001.
- Regulator blanking plate : R-47003.

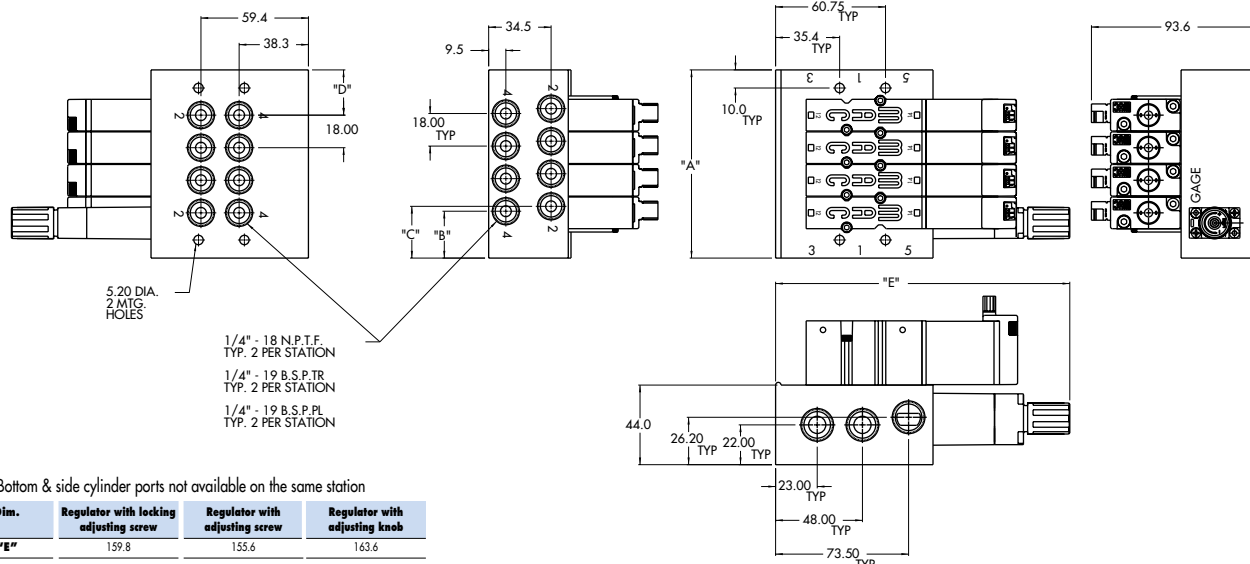
Options :

- Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS

Number of stations	1	2	3	4	5	6	7	8	9	10
"A"	-	68.0	86.0	104.0	122.0	140.0	158.0	178.0	194.0	212.0
"B"	25.90	25.90	25.90	25.90	25.90	25.90	25.90	25.90	25.90	25.90
"C"	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60	28.60
"D"	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
1/4" Port	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00
M6 Carstick port						N/A				

Dimensions are based on
18 mm centerline spacing



Note: Bottom & side cylinder ports not available on the same station

Dim.	Regulator with locking adjusting screw	Regulator with adjusting screw	Regulator with adjusting knob
"E"	159.8	155.6	163.6

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

Function	Port size	Flow [Max]	Circuit bar mounting	Profile
5/2	1/8" - 1/4" 6 mm tube receptacle	0.5C_v	add-on style non plug-in cyl. ports in base	44 mm

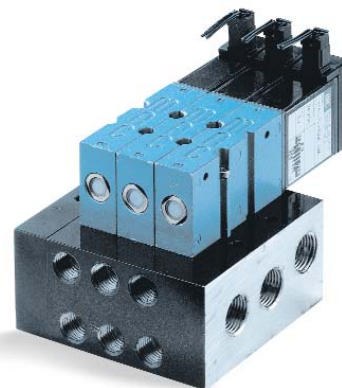
OPERATIONAL BENEFITS

1. Direct solenoid operated valve.
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. Manual operator standard on all valves.

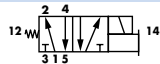
Reset

HOW TO ORDER

47A-xxx-Hxxx-xxx



HOW TO ORDER VALVE FOR CIRCUIT BAR MOUNTING

Port size (see base)	Valve
Valve less base	 ☐ 47A-LI0-Hxxx-xxx

SOLENOID OPERATOR ➤

H **xx x- x xx'**

xx Voltage	x Wire length	x Manual operator	xx Electrical connection
☐ DA 24VDC (5.2 W)	☐ A 18"	☐ I Non-locking	☐ BA Flying leads
☐ DB 24VDC (2.4 W)	☐ C 36"		☐ BC Flying leads with light
☐ DC 24VDC (1.8 W)	☐ x Other Options		☐ MA Plug-in wire assy
☐ DD 24VDC (1.0 W)			☐ MC Plug-in wire assy with light
☐ AA 120VAC (must use with rectified connector)			☐ HA Plug-in connector with rectifier and light
☐ xx Other Options			☐ xx Other Options

HOW TO ORDER CIRCUIT BAR

EBM47A-xxxxx-xx

Port size	Side cylinder ports (18 mm)	Bottom cylinder ports (18 mm)
1/8" NPTF	☐ EBM47A-00JBA-xx	☐ EBM47A-00LBA-xx
1/4" NPTF	☐ EBM47A-00JBB-xx	☐ EBM47A-00LBB-xx
6 mm tube receptacle	☐ EBM47A-00JBG-xx	☐ EBM47A-00LBG-xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).
add-a-unit stations may be added to above bars. Maximum length for add-a-unit is 4 stations.

OPTIONS

EBM47A-00JBA-xx

- ☐ clic replace with "C" for add-a-unit.

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

**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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

Note : • Valve and coil are not interchangeable.

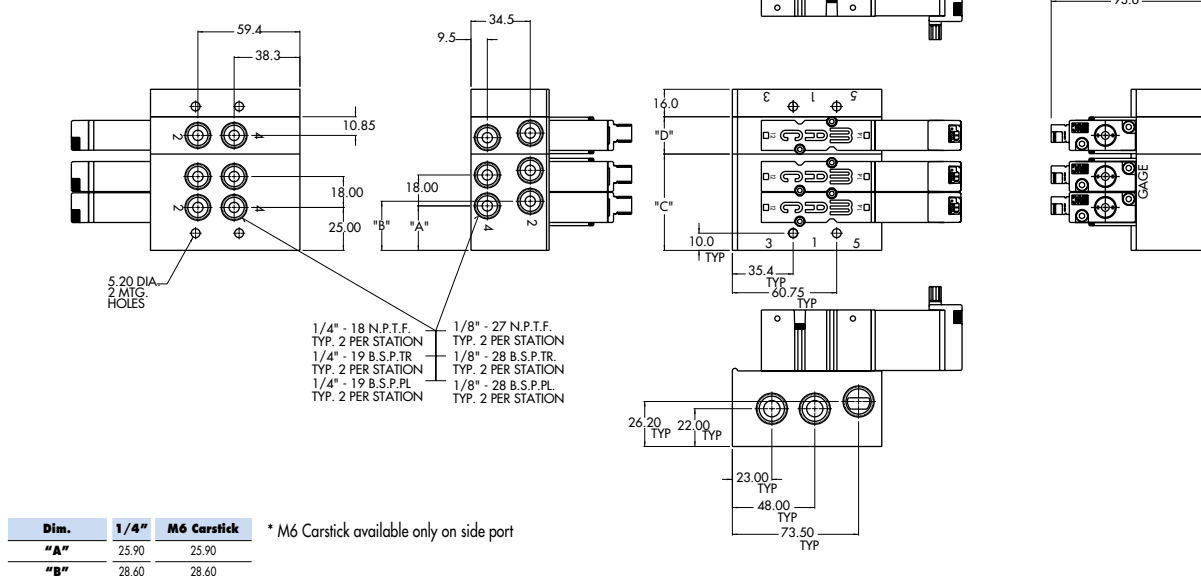
Spare parts : • Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001. • End plate kit : M-47005-01.

Options : • Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS

Number of stations	1	2	3	4	5	6	7	8	9	10
"C" w/regulator	-	56.1	74.1	92.1	110.1	128.1	146.1	164.1	182.1	200.1
"C" w/o regulator	-	56.1	74.1	92.1	110.1	128.1	146.1	164.1	182.1	200.1
"D"	21.7	39.7	57.7	75.7	-	-	-	-	-	-

Dimensions are based on 18 mm centerline spacing
Note: Bottom & side cylinder ports not available on the same station



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

Function	Port size	Flow [Max]	Circuit bar mounting	Profile
5/2	1/8" - 1/4" 6 mm tube receptacle	0.5C _v	add-on style non plug-in cyl. ports in base with Pr. Reg.	44 mm

OPERATIONAL BENEFITS

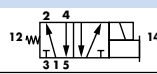
1. Direct solenoid operated valve.
2. Balanced poppet, immune to variations of pressure.
3. Short stroke with high flow.
4. The patented solenoid develops high shifting forces.
5. Powerful return spring.
6. Manual operator standard on all valves.

Reset

HOW TO ORDER

47A-xxx-Hxxx-xxx

HOW TO ORDER VALVE FOR CIRCUIT BAR MOUNTING

Port size (see base)	Valve
Valve less base	 ☐ 47A-LI0-Hxxx-xxx

SOLENOID OPERATOR ►

H **xx** **x** - **x** **xx***

xx Voltage	x Wire length	x Manual operator	xx Electrical connection
☐ DA 24VDC (5.2 W)	☐ A 18"	☐ I Non-locking	☐ BA Flying leads
☐ DB 24VDC (2.4 W)	☐ C 36"		☐ BC Flying leads with light
☐ DC 24VDC (1.8 W)	☐ x Other Options		☐ MA Plug-in wire assy
☐ DD 24VDC (1.0 W)			☐ MC Plug-in wire assy with light
☐ AA 120VAC (must use with rectified connector)			☐ HA Plug-in connector with rectifier and light
☐ xx Other Options			☐ xx Other Options

HOW TO ORDER CIRCUIT BAR (REGULATOR ORDERED SEPARATELY)**

EBM47A-xxxxx-xx

Port size	Side cylinder ports (18 mm)	Bottom cylinder ports (18 mm)
1/8" NPTF	☐ EBM47A-00KBA-xx	☐ EBM47A-00MBA-xx
1/4" NPTF	☐ EBM47A-00KBB-xx	☐ EBM47A-00MBB-xx
6 mm tube receptacle	☐ EBM47A-00KBBG-xx	☐ EBM47A-00MBBG-xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).
add-a-unit stations may be added to above bars. Maximum length for add-a-unit is 4 stations.

OPTIONS

EBM47A-00KBA-xx

- ☐ clic replace with "C" for add-a-unit.

** Pressure Regulators :

PR47A-GOAx

- ☐ X=A (0 to 120 PSI)
- ☐ X=B (0 to 80 PSI)
- ☐ X=C (0 to 30 PSI)

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

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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

Note : • Valve and coil are not interchangeable.

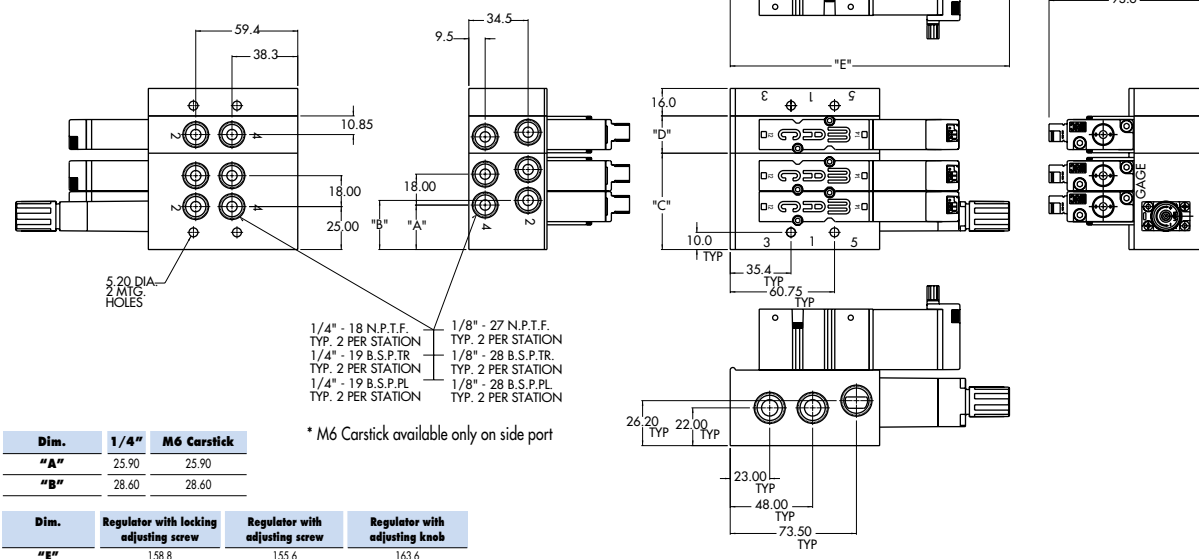
Spare parts : • Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001. • End plate kit : M-47005-01. • Regulator blanking plate : R-47003.

Options : • Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS

Number of stations	1	2	3	4	5	6	7	8	9	10
"C" w/regulator	-	56.1	74.1	92.1	110.1	128.1	146.1	164.1	182.1	200.1
"C" w/o regulator	-	56.1	74.1	92.1	110.1	128.1	146.1	164.1	182.1	200.1
"D"	21.7	39.7	57.7	75.7	-	-	-	-	-	-

Dimensions are based on 18 mm centerline spacing
Note: Bottom & side cylinder ports not available on the same station



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

Function	Port size	Flow [Max]	Circuit bar mounting
5/2	1/8" - 1/4" 6 mm tube receptacle	0.5C_v	plug-in

OPERATIONAL BENEFITS

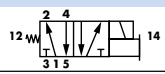
1. Balanced poppet, immune to variations of pressure.
2. Short stroke with high flow.
3. The patented solenoid develops high shifting forces.
4. Powerful return spring.
5. Manual operator standard on all valves.
6. Direct solenoid operated.

Reset

HOW TO ORDER

47A-xxx-HxxP-xxx

HOW TO ORDER VALVE FOR "PLUG-IN" CIRCUIT BAR

Valve less base	Valve
	
	☐ 47A-LI0-HxxP-xxx

SOLENOID OPERATOR ➤

H **xx** P- **x** **xx***

xx Voltage	x Manual operator	xx Electrical connection
☐ DA 24VDC (5.2 W)	☐ 1 Non-locking	☐ FA Plug-in
☐ DB 24VDC (2.4 W)		☐ FC Plug-in with light
☐ DC 24VDC (1.8 W)		☐ FE Plug-in with suppression diode
☐ DD 24VDC (1.0 W)		☐ FG Plug-in with suppression diode with LED light
☐ AA 120VAC (Mod. No. required see below)		
☐ xx Other Options		☐ xx Other Options

HOW TO ORDER "PLUG-IN" CIRCUIT BAR

ECD47A-xxxxxx-xxxx

Port size	Spacing mm	Side cylinder ports	Bottom cylinder ports
1/8" NPTF	18	☐ ECD47A-00AAA-A0xx	☐ ECD47A-00BAA-A0xx
1/4" NPTF	18	☐ ECD47A-00AAB-A0xx	☐ ECD47A-00BAB-A0xx
6 mm tube receptacle	18	☐ ECD47A-00AAG-A0xx	☐ ECD47A-00BAG-A0xx
1/8" NPTF	30	☐ ECD47A-01AAA-C0xx	☐ ECD47A-01BAA-C0xx
1/4" NPTF	30	☐ ECD47A-01AAB-C0xx	☐ ECD47A-01BAB-C0xx
6 mm tube receptacle	30	☐ ECD47A-01AAG-C0xx	☐ ECD47A-01BAG-C0xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).
for AC voltage use mod. FWR2 after circuit bar model number.
for multi-pin connector (9, 15 or 25).

- ☐ A0 = without light
- ☐ AA = with light (120V)
- ☐ AB = with light (240V)
- ☐ AD = with light (24V)
- ☐ C0 = terminal strip
- ☐ CA = terminal strip with light (120V)
- ☐ CB = terminal strip with light (240V)
- ☐ CD = terminal strip with light (24V)

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



**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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

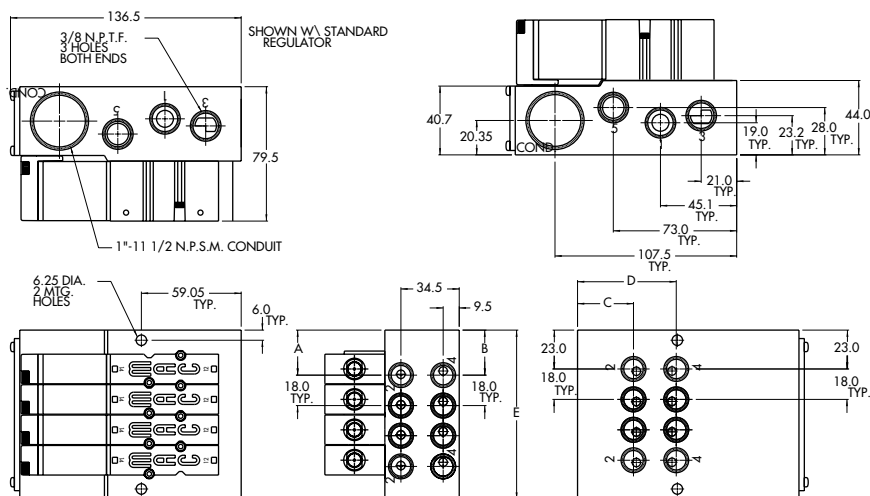
- Note : • Valve and coil are not interchangeable.
- Spare parts : • Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001.
• Base wire plug-in protector : 16520.
- Options : • Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS

Number of stations	1	2	3	4	5	6	7	8	9	10
"E"	46.0	64.0	82.0	100.0	118.0	136.0	154.0	172.0	190.0	208.0

Dimensions are based on 18 mm centerline spacing

Note: Bottom & side cylinder ports not available on the same station



Dim.	1/4"	1/8"	6 mm Legris
"A"	26.65	26.15	25.65
"B"	26.65	24.2	25.65
"C"	33.1	34.8	34.8
"D"	58.4	55.9	55.9

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

Function	Port size	Flow [Max]	Circuit bar mounting
5/2	1/8" - 1/4"	0.5C_v	plug-in with Pr. Reg.

OPERATIONAL BENEFITS

1. Balanced poppet, immune to variations of pressure.
2. Short stroke with high flow.
3. The patented solenoid develops high shifting forces.
4. Powerful return spring.
5. Manual operator standard on all valves.
6. Direct solenoid operated.

Reset

HOW TO ORDER

47A-xxx-HxxP-xxx

HOW TO ORDER VALVE FOR "PLUG-IN" CIRCUIT BAR

Valve less base	Valve
	
	☐ 47A-LI0-HxxP-xxx

SOLENOID OPERATOR ➤

XX Voltage	X Manual operator	XX Electrical connection
☐ DA 24VDC (5.2 W)	☐ 1 Non-locking	☐ FA Plug-in
☐ DB 24VDC (2.4 W)		☐ FC Plug-in with light
☐ DC 24VDC (1.8 W)		☐ FE Plug-in with suppression diode
☐ DD 24VDC (1.0 W)		☐ FG Plug-in with suppression diode with LED light
☐ AA 120VAC (Mod. No. required see below)		☐ xx Other Options
☐ xx Other Options		

HOW TO ORDER "PLUG-IN" CIRCUIT BAR (REGULATORS ORDERED SEPARATELY)**

ECD47A-xxxxxx-xxxx

Port size	Spacing mm	Bottom cylinder ports
1/8" NPTF	18	☐ ECD47A-00CAA-A0xx
1/4" NPTF	18	☐ ECD47A-00CAB-A0xx
1/8" NPTF	30	☐ ECD47A-01CAA-C0xx
1/4" NPTF	30	☐ ECD47A-01CAB-C0xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).
for AC voltage use mod. FWR2 after circuit bar model number.
for multi-pin connector (9, 15 or 25).

** Pressure Regulators :

PR47A-GOAx

- ☐ X=A (0 to 120 PSI)
- ☐ X=B (0 to 80 PSI)
- ☐ X=C (0 to 30 PSI)
- ☐ A0 = without light
- ☐ AA = with light (120V)
- ☐ AB = with light (240V)
- ☐ AD = with light (24V)
- ☐ C0 = terminal strip
- ☐ CA = terminal strip with light (120V)
- ☐ CB = terminal strip with light (240V)
- ☐ CD = terminal strip with light (24V)

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



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)
Orifice :	4.3 mm
Flow (at 6 bar, $\Delta P=1\text{ bar}$) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

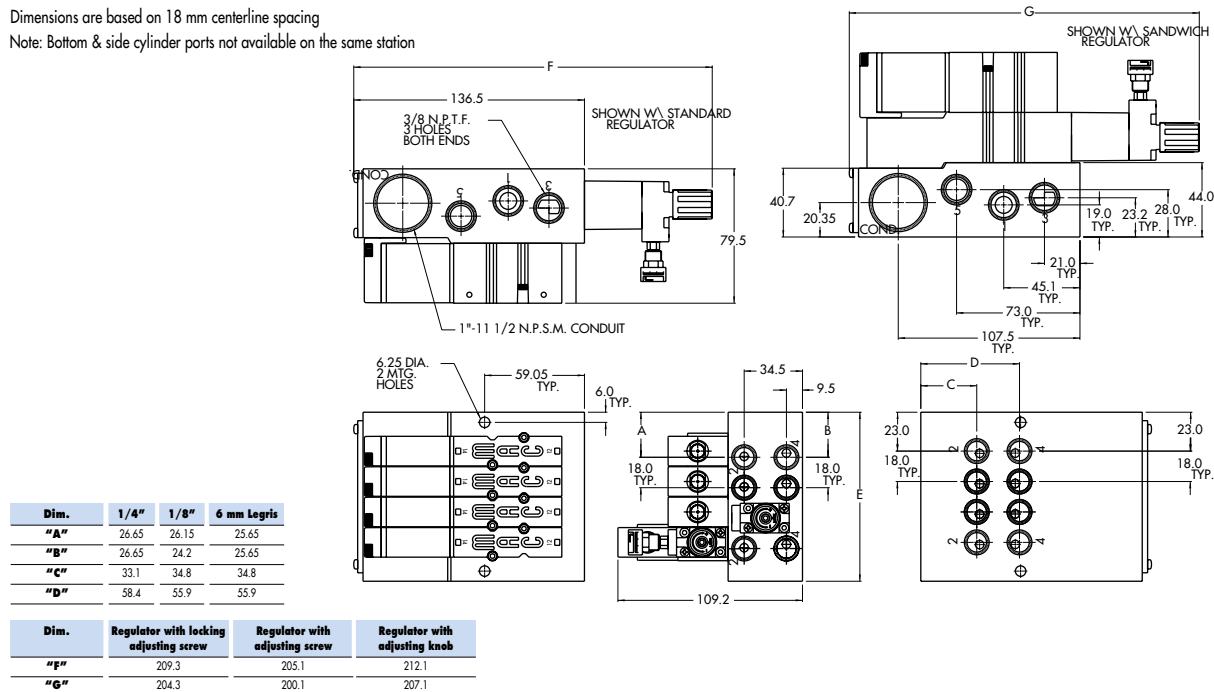
- Note :
- Valve and coil are not interchangeable.
- Spare parts :
- Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001.
 - Base wire plug-in protector : 16520. • Regulator blanking plate : R-47003.
- Options :
- Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS

Number of stations	1	2	3	4	5	6	7	8	9	10
"E"	46.0	64.0	82.0	100.0	118.0	136.0	154.0	172.0	190.0	208.0

Dimensions are based on 18 mm centerline spacing

Note: Bottom & side cylinder ports not available on the same station



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

Function	Port size	Flow [Max]	Circuit bar mounting
5/2	1/8" - 1/4" 6 mm tube receptacle	0.5C _v	add-on style plug-in

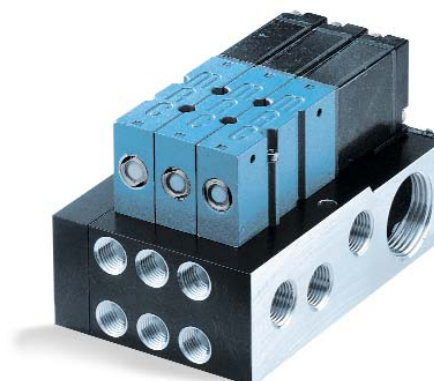
OPERATIONAL BENEFITS

1. Balanced poppet, immune to variations of pressure.
2. Short stroke with high flow.
3. The patented solenoid develops high shifting forces.
4. Powerful return spring.
5. Manual operator standard on all valves.
6. Direct solenoid operated.

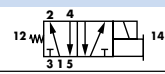
Reset

HOW TO ORDER

47A-xxx-HxxP-xxx



HOW TO ORDER VALVE FOR "PLUG-IN" CIRCUIT BAR

Valve

☐ 47A-LI0-HxxP-xxx

SOLENOID OPERATOR ►

H xx P- x xx*

xx Voltage	x Manual operator	xx Electrical connection
☐ DA 24VDC (5.2 W)	☐ 1 Non-locking	☐ FA Plug-in
☐ DB 24VDC (2.4 W)		☐ FC Plug-in with light
☐ DC 24VDC (1.8 W)		☐ FE Plug-in with suppression diode
☐ DD 24VDC (1.0 W)		☐ FG Plug-in with suppression diode with LED light
☐ AA 120VAC (Mod. No. required see below)		☐ xx Other Options
☐ xx Other Options		

HOW TO ORDER "PLUG-IN" CIRCUIT BAR

ECD47A-xxxxx-xxxx

Port size	Spacing mm	Side cylinder ports	Bottom cylinder ports
1/8" NPTF	18	☐ ECD47A-00ABA-A0xx	☐ ECD47A-00BBA-A0xx
1/4" NPTF	18	☐ ECD47A-00ABB-A0xx	☐ ECD47A-00BBB-A0xx
6 mm tube receptacle	18	☐ ECD47A-00ABG-A0xx	☐ ECD47A-00BBG-A0xx
1/8" NPTF	30	☐ ECD47A-01ABA-C0xx	☐ ECD47A-01BBA-C0xx
1/4" NPTF	30	☐ ECD47A-01ABB-C0xx	☐ ECD47A-01BBB-C0xx
6 mm tube receptacle	30	☐ ECD47A-01ABG-C0xx	☐ ECD47A-01BBG-C0xx

Number of stations (03=3 stations)

Note: ☐ clic for valves mounted on base at the factory (add - 9 to the model number).
for AC voltage use mod. FWR2 after circuit bar model number.
for multi-pin connector (9, 15 or 25).
add-a-units may be added to above bars.

- ☐ A0 = without light
- ☐ AA = with light (120V)
- ☐ AB = with light (240V)
- ☐ AD = with light (24V)
- ☐ C0 = terminal strip
- ☐ CA = terminal strip with light (120V)
- ☐ CB = terminal strip with light (240V)
- ☐ CD = terminal strip with light (24V)

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



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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

Note :

- Valve and coil are not interchangeable.

Spare parts :

- Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001.
- Base wire plug-in protector : 16520. • Isolator disc between add-a-units : 28438.

Options :

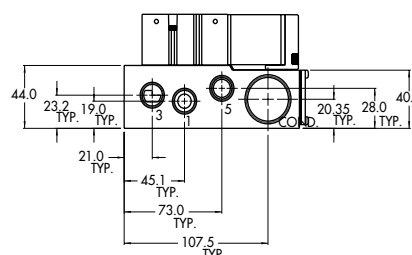
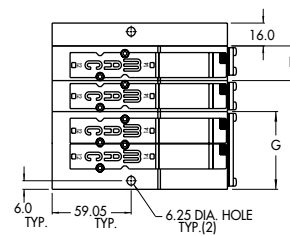
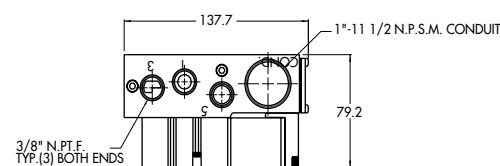
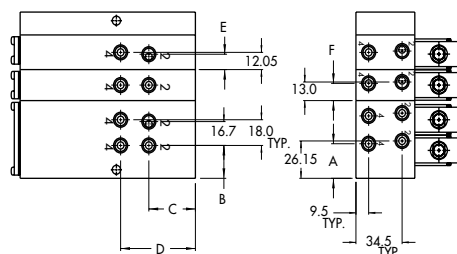
- Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS

Number of stations	1	2	3	4	5	6	7	8	9	10
"G"	-	51.85	69.85	87.85	105.85	123.85	141.85	159.85	177.85	195.85
"H"	21.70	39.70	57.70	75.70	-	-	-	-	-	-

Dimensions are based on 18 mm centerline spacing

Note: Bottom & side cylinder ports not available on the same station



Dim.	1/8"	1/4"	6 mm Legris
"A"	24.20	24.20	25.65
"B"	23.00	23.00	23.00
"C"	34.80	33.10	34.80
"D"	55.90	58.40	55.90
"E"	-	-	-
"F"	12.05	12.00	14.00

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



Function	Port size	Flow [Max]	Circuit bar mounting
5/2	1/8" - 1/4"	0.5C_v	add-on style plug-in with Pr. Reg.

OPERATIONAL BENEFITS

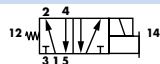
1. Balanced poppet, immune to variations of pressure.
2. Short stroke with high flow.
3. The patented solenoid develops high shifting forces.
4. Powerful return spring.
5. Manual operator standard on all valves.
6. Direct solenoid operated.

Reset

HOW TO ORDER

47A-xxx-HxxP-xxx

HOW TO ORDER VALVE FOR "PLUG-IN" CIRCUIT BAR

Valve less base	Valve
	
	☐ 47A-LI0-HxxP-xxx

SOLENOID OPERATOR ➤

H **xx** P- **x** **xx***

xx Voltage	x Manual operator	xx Electrical connection
☐ DA 24VDC (5.2 W)	☐ 1 Non-locking	☐ FA Plug-in
☐ DB 24VDC (2.4 W)		☐ FC Plug-in with light
☐ DC 24VDC (1.8 W)		☐ FE Plug-in with suppression diode
☐ DD 24VDC (1.0 W)		☐ FG Plug-in with suppression diode with LED light
☐ AA 120VAC (Mod. No. required see below)		
☐ xx Other Options		☐ xx Other Options

HOW TO ORDER "PLUG-IN" CIRCUIT BAR (REGULATORS ORDERED SEPARATELY)**

ECD47A-xxxxxx-xxxx

Port size	Spacing mm	Bottom cylinder ports
1/8" NPTF	18	☐ ECD47A-00CBA-A0xx
1/4" NPTF	18	☐ ECD47A-00CBB-A0xx
1/8" NPTF	30	☐ ECD47A-01CBA-C0xx
1/4" NPTF	30	☐ ECD47A-01CBB-C0xx

Number of stations (03=3 stations)

Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).
for AC voltage use mod. FWR2 after circuit bar model number.
for multi-pin connector (9, 15 or 25).
add-a-units may be added to above bars.

** Pressure Regulators :

PR47A-GOAx

- ☐ X=A (0 to 120 PSI)
- ☐ X=B (0 to 80 PSI)
- ☐ X=C (0 to 30 PSI)

- ☐ A0 = without light
- ☐ AA = with light (120V)
- ☐ AB = with light (240V)
- ☐ AD = with light (24V)
- ☐ C0 = terminal strip
- ☐ CA = terminal strip with light (120V)
- ☐ CB = terminal strip with light (240V)
- ☐ CD = terminal strip with light (24V)

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



**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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

Note : • Valve and coil are not interchangeable.

Spare parts : • Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001.
• Base wire plug-in protector : 16520. • Regulator blanking plate : R-47003. • Isolator disc between add-a-units : 28438.

Options : • Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS

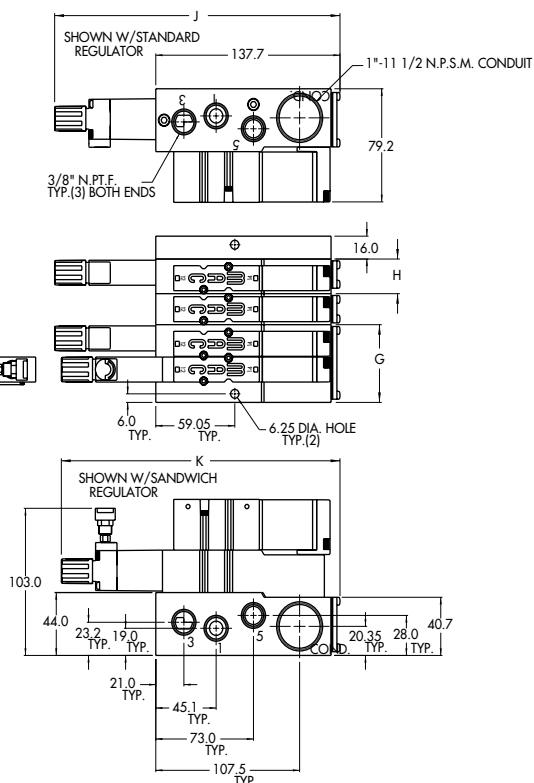
Number of stations	1	2	3	4	5	6	7	8	9	10
"G" w/regulator	-	54.40	72.40	90.40	108.40	126.40	144.40	162.40	180.40	199.40
"G" w/o regulator	-	51.85	69.85	87.85	105.85	123.85	141.85	159.85	177.85	195.85
"H" w/regulator	24.25	42.25	60.25	78.25	-	-	-	-	-	-
"H" w/o regulator	21.70	39.70	57.70	75.70	-	-	-	-	-	-

Dimensions are based on 18 mm centerline spacing

Note: Bottom & side cylinder ports not available on the same station

Dim.	1/8"	1/4"	6 mm Legris	1/8" w/regulator	1/4" w/regulator
"A"	24.20	24.20	25.65	-	-
"B"	23.00	23.00	23.00	-	23.00
"C"	34.80	33.10	34.80	34.80	33.10
"D"	55.90	58.40	55.90	55.90	58.40
"E"	-	-	-	10.75	10.85
"F"	12.05	12.00	14.00	-	-

Dim.	Regulator with locking adjusting screw	Regulator with adjusting screw	Regulator with adjusting knob
"J"	209.3	205.1	212.1
"K"	204.3	200.1	207.1



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

Function	Port size	Flow [Max]	Circuit bar mounting
5/2	1/8" - 1/4" 6 mm tube receptacle	0.5C_v	plug-in add-a-unit stations

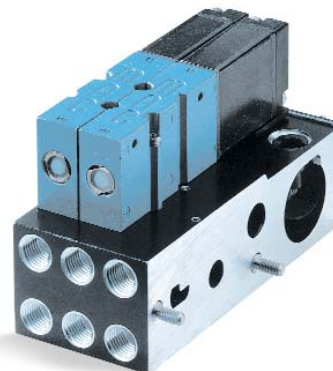
OPERATIONAL BENEFITS

1. Balanced poppet, immune to variations of pressure.
2. Short stroke with high flow.
3. The patented solenoid develops high shifting forces.
4. Powerful return spring.
5. Manual operator standard on all valves.
6. Direct solenoid operated.

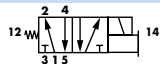
Reset

HOW TO ORDER

47A-xxx-HxxP-xxx



HOW TO ORDER VALVE FOR "PLUG-IN" CIRCUIT BAR

Valve

☐ 47A-LI0-HxxP-xxx

SOLENOID OPERATOR ►

H **XX** P- **X** **XX***

XX Voltage	X Manual operator	XX Electrical connection
☐ DA 24VDC (5.2 W)	☐ 1 Non-locking	☐ FA Plug-in
☐ DB 24VDC (2.4 W)		☐ FC Plug-in with light
☐ DC 24VDC (1.8 W)		☐ FE Plug-in with suppression diode
☐ DD 24VDC (1.0 W)		☐ FG Plug-in with suppression diode with LED light
☐ AA 120VAC (Mod. No. required see below)		☐ xx Other Options
☐ xx Other Options		

HOW TO ORDER "PLUG-IN" CIRCUIT BAR

ECD47A-xxxxx-xxxx

Port size	Spacing mm	Side cylinder ports	Bottom cylinder ports
1/8" NPTF	18	☐ ECD47A-00ACA-A0xx	☐ ECD47A-00BCA-A0xx
1/4" NPTF	18	☐ ECD47A-00ACB-A0xx	☐ ECD47A-00BCB-A0xx
6 mm tube receptacle	18	☐ ECD47A-00ACG-A0xx	☐ ECD47A-00BCG-A0xx
1/8" NPTF	30	☐ ECD47A-01ACA-C0xx	☐ ECD47A-01BCA-C0xx
1/4" NPTF	30	☐ ECD47A-01ACB-C0xx	☐ ECD47A-01BCB-C0xx
6 mm tube receptacle	30	☐ ECD47A-01ACG-C0xx	☐ ECD47A-01BCG-C0xx

Number of stations (01=1 station). Maximum length is 4 stations .
 Note: ☐ clic for valves mounted on base at the factory (add - 9 to the model number).
 when add-a-unit stations are added to bars with a multi-pin connector,
 MOD SD03 should be included with add-a-unit model number.
 for AC voltage use mod. FWR2 after circuit bar model number.

- ☐ A0 = without light
- ☐ AA = with light (120V)
- ☐ AB = with light (240V)
- ☐ AD = with light (24V)
- ☐ C0 = terminal strip
- ☐ CA = terminal strip with light (120V)
- ☐ CB = terminal strip with light (240V)
- ☐ CD = terminal strip with light (24V)

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



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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

Note :

- Valve and coil are not interchangeable.

Spare parts :

- Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001.
- O-ring port seal (x3) : 17015-01 • Tie rod (x2) : 79007-01 (one station length).

Options :

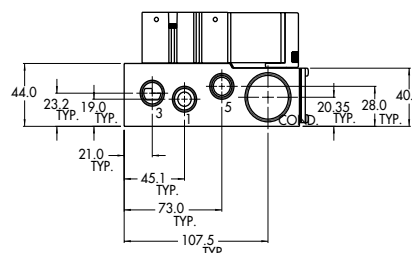
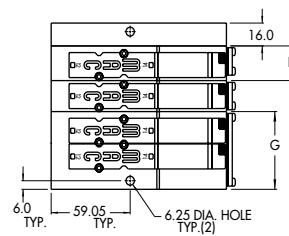
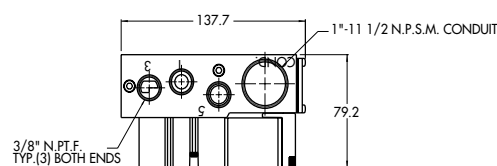
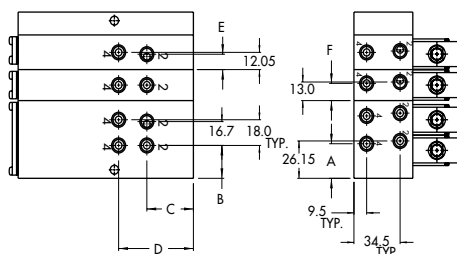
- Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS

Number of stations	1	2	3	4	5	6	7	8	9	10
"G"	-	51.85	69.85	87.85	105.85	123.85	141.85	159.85	177.85	195.85
"H"	21.70	39.70	57.70	75.70	-	-	-	-	-	-

Dimensions are based on 18 mm centerline spacing

Note: Bottom & side cylinder ports not available on the same station



Dim.	1/8"	1/4"	6 mm Legris
"A"	24.20	24.20	25.65
"B"	23.00	23.00	23.00
"C"	34.80	33.10	34.80
"D"	55.90	58.40	55.90
"E"	-	-	-
"F"	12.05	12.00	14.00

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



Function	Port size	Flow [Max]	Circuit bar mounting
5/2	1/8" - 1/4"	0.5C_v	plug-in add-a-unit stations with Pr. Reg.

OPERATIONAL BENEFITS

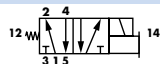
1. Balanced poppet, immune to variations of pressure.
2. Short stroke with high flow.
3. The patented solenoid develops high shifting forces.
4. Powerful return spring.
5. Manual operator standard on all valves.
6. Direct solenoid operated.

Reset

HOW TO ORDER

47A-xxx-HxxP-xxx

HOW TO ORDER VALVE FOR "PLUG-IN" CIRCUIT BAR

Valve less base	Valve
	
	☐ 47A-LI0-HxxP-xxx

SOLENOID OPERATOR ➤

H xx P- x xx*

xx Voltage	x Manual operator	xx Electrical connection
☐ DA 24VDC (5.2 W)	☐ 1 Non-locking	☐ FA Plug-in
☐ DB 24VDC (2.4 W)		☐ FC Plug-in with light
☐ DC 24VDC (1.8 W)		☐ FE Plug-in with suppression diode
☐ DD 24VDC (1.0 W)		☐ FG Plug-in with suppression diode with LED light
☐ AA 120VAC (Mod. No. required see below)		☐ xx Other Options
☐ xx Other Options		

HOW TO ORDER "PLUG-IN" CIRCUIT BAR (REGULATORS ORDERED SEPARATELY)**

ECD47A-xxxxx-xxxx

Port size	Spacing mm	Bottom cylinder ports
1/8" NPTF	18	☐ ECD47A-00CCA-A0xx
1/4" NPTF	18	☐ ECD47A-00CCB-A0xx
1/8" NPTF	30	☐ ECD47A-01CCA-C0xx
1/4" NPTF	30	☐ ECD47A-01CCB-C0xx

Number of stations (01=1 station). Maximum length is 4 stations .
 Note : ☐ clic for valves mounted on base at the factory (add - 9 to the model number).
 when add-a-unit stations are added to bars with a multi-pin connector,
 MOD SD03 should be included with add-a-unit model number.
 for AC voltage use mod. FWR2 after circuit bar model number.

** Pressure Regulators :

PR47A-GOAx

- ☐ X=A (0 to 120 PSI)
- ☐ X=B (0 to 80 PSI)
- ☐ X=C (0 to 30 PSI)

- ☐ A0 = without light
- ☐ AA = with light (120V)
- ☐ AB = with light (240V)
- ☐ AD = with light (24V)
- ☐ C0 = terminal strip
- ☐ CA = terminal strip with light (120V)
- ☐ CB = terminal strip with light (240V)
- ☐ CD = terminal strip with light (24V)

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



**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)
Orifice :	4.3 mm
Flow (at 6 bar, ΔP=1bar) :	5.2 W : 0.50C _v , 2.4 W : 0.30C _v , 1.8 W : 0.25C _v , 1.0 W : 0.25C _v
Coil :	General purpose class A, continuous duty, encapsulated
Voltage range :	-15% to +10% of nominal voltage
Power :	5.2 W - 2.4 W - 1.8 W - 1.0 W
Response times :	Energize : 14.0 ms
(with 5.2 W coil)	De-energize : 5.0 ms

Note : • Valve and coil are not interchangeable.

Spare parts : • Seal between valve and bar : 16629. • Mounting screw (x2) : 35043. • Valve blanking plate : M-47001.
• O-ring port seal (x3) : 17015-01 • Tie rod (x2) : 79007-01 (one station length). • Regulator blanking plate : R-47003.

Options : • Isolation of inlet and/or exhaust. Special bar. Consult factory. • BSPP Threads.

DIMENSIONS

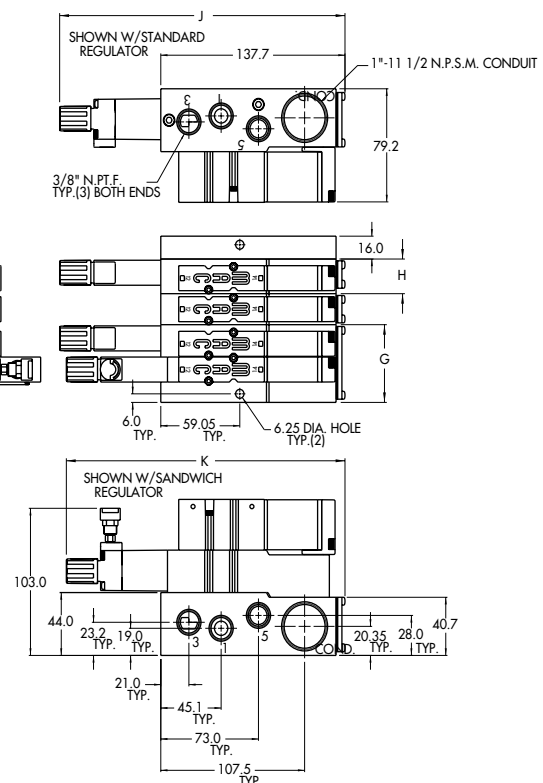
Number of stations	1	2	3	4	5	6	7	8	9	10
"G" w/regulator	-	54.40	72.40	90.40	108.40	126.40	144.40	162.40	180.40	199.40
"G" w/o regulator	-	51.85	69.85	87.85	105.85	123.85	141.85	159.85	177.85	195.85
"H" w/regulator	24.25	42.25	60.25	78.25	-	-	-	-	-	-
"H" w/o regulator	21.70	39.70	57.70	75.70	-	-	-	-	-	-

Dimensions are based on 18 mm centerline spacing

Note: Bottom & side cylinder ports not available on the same station

Dim.	1/8"	1/4"	6 mm Legris	1/8" w/regulator	1/4" w/regulator
"A"	24.20	24.20	25.65	-	-
"B"	23.00	23.00	23.00	-	23.00
"C"	34.80	33.10	34.80	34.80	33.10
"D"	55.90	58.40	55.90	55.90	58.40
"E"	-	-	-	10.75	10.85
"F"	12.05	12.00	14.00	-	-

Dim.	Regulator with locking adjusting screw	Regulator with adjusting screw	Regulator with adjusting knob
"J"	209.3	205.1	212.1
"K"	204.3	200.1	207.1



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



Section 2

Options



Codification table for voltages / Wire length / Manual operators / Electrical connections

VALVE CODE ➤

-HXX X - X XX
1 2 3 4

OPTIONS AVAILABLE FOR

- Solenoid valves 37 & 47 Series

1. VOLTAGE

- H XX	X - X XX	VOLTAGE
DC Options		
☐ DA		24 VDC (5.2 W)
☐ DB		24 VDC (2.4 W)
☐ DC		24 VDC (1.8 W)
☐ DD		24 VDC (1.0 W)
☐ DF		12 VDC (5.2 W)
☐ DG		12 VDC (2.4 W)
☐ DH		12 VDC (1.8 W)
☐ DJ		12 VDC (1.0 W)
☐ DL		120 VDC (6.3 W)
AC Options (50/60hz)		
☐ AA		120 VAC (6.7 W)
☐ AB		220 VAC (5.6 W)
☐ AC		240 VAC (5.8 W)
☐ AD		24 VAC (7.8 W)

Note : AC Voltages only available with "H" & "F" type connectors. MOD FWR2 must be used with the "F" type connectors.

2. WIRE LENGTH

- H XX	X - X XX	WIRE LENGTH
☐ O		No lead wire
☐ A		18"
☐ B		24"
☐ C		36"
☐ D		48"
☐ E		72"
☐ F		96"
☐ G		120"
☐ H		144"
☐ P		Plug-in (used only with "F" type connector Opts.)

Use "O" with MJ & MM Opts.

3. MANUAL OPERATOR

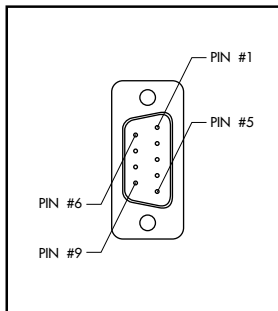
- H XX	X - X XX	MANUAL OPERATOR
☐ 0		No operator
☐ 1		Non-locking recessed
☐ 2		Locking recessed
☐ 3		Non-locking extended
☐ 4		Locking extended

4. ELECTRICAL CONNECTION

- H XX X - X XX	ELECTRICAL CONNECTION
☐ BA	Flying leads
☐ BB	Flying leads with ground wire
☐ BC	Flying leads with led light
☐ BD	Flying leads with led light & ground wire
☐ BE	Flying leads with suppression diode
☐ BF	Flying leads with suppression diode & ground wire
☐ BG	Flying leads with suppression diode plus led light
☐ BH	Flying leads with suppression diode plus led light & ground wire
☐ *BN	Flying leads with suppression diode plus blocking diode
☐ *BP	Flying leads with suppression diode plus blocking diode & ground wire
☐ *BR	Flying leads with suppression diode plus blocking diode & led light
☐ *BS	Flying leads with suppression diode plus blocking diode & led light & ground wire
☐ FA	Plug-in
☐ FB	Plug-in with ground wire
☐ FC	Plug-in with led light
☐ FD	Plug-in with led light & ground wire
☐ FE	Plug-in with suppression diode
☐ FF	Plug-in with suppression diode & ground wire
☐ FG	Plug-in with suppression diode plus led light
☐ FH	Plug-in with suppression diode plus led light & ground wire
Note : FA ---- FH options for use with ECD type circuit bars	
☐ HA	Circuit board plug-in with full wave rectifier & led light
☐ HB	Circuit board with full wave rectifier & led with ground wire
☐ HC	Same as "HA" without lead wires
☐ HD	Same as "HB" without lead wires
☐ HL	Circuit board plug-in with suppression diode plus blocking diode & led light
☐ HN	Same as "HL" without lead wires
☐ MA	Plug-in wire assembly
☐ MB	Plug-in wire assembly with ground wire
☐ MC	Plug-in wire assembly with led light
☐ MD	Plug-in wire assembly led light & ground wire
☐ ME	Plug-in wire assembly with suppression diode
☐ MF	Plug-in wire assembly with suppression diode & ground wire
☐ *MG	Plug-in wire assembly suppression diode plus led light
☐ *MH	Plug-in wire assembly suppression diode plus led light & ground wire
☐ *MN	Plug-in wire assembly with suppression diode plus blocking diode
☐ *MP	Plug-in wire assembly with suppression diode plus blocking diode & ground wire
☐ MR	Plug-in wire assembly with suppression diode plus blocking diode & led light
☐ MS	Plug-in wire assembly with suppression diode plus blocking diode & led light & ground wire
☐ MJ	Plug-in housing w/o wire assembly ("MA" option without wire assembly)
☐ MM	Plug-in housing w/o wire assembly ("MB" option without wire assembly)

* Blocking diode is in lead wire.

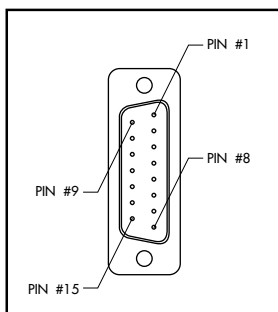
MOD. S009



TECHNICAL DATA

- Type «SUB_D»
- Number of contacts : 9
- Solder termination (Dia. 0.6 mm/0.14 mm²/26-22 AWG)
- Operating current 5 A/contact
- Rated voltage 125 V~
- Temp. range -40° to +125°C
- Insulation resistance $\geq 5.0^9 \Omega$
- Protection class IP40 (DIN 40050)
- Number of solenoids : 7 max.
- Max. 24 V=/5.4 W per solenoid
- 2 common wires

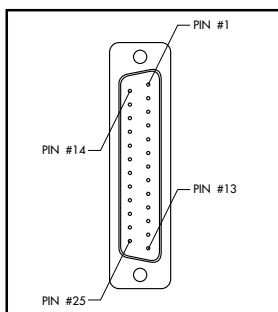
MOD. S015



TECHNICAL DATA

- Type «SUB_D»
- Number of contacts : 15
- Solder termination (Dia. 0.6 mm/0.14 mm²/26-22 AWG)
- Operating current 5 A/contact
- Rated voltage 125 V~
- Temp. range -40° to +125°C
- Insulation resistance $\geq 5.0^9 \Omega$
- Protection class IP40 (DIN 40050)
- Number of solenoids : 12 max.
- Max. 24 V=/5.4 W per solenoid
- 3 common wires

MOD. S025



TECHNICAL DATA

- Type «SUB_D»
- Number of contacts : 25
- Solder termination (Dia. 0.6 mm/0.14 mm²/26-22 AWG)
- Operating current 5 A/contact
- Rated voltage 125 V~
- Temp. range -40° to +125°C
- Insulation resistance $\geq 5.0^9 \Omega$
- Protection class IP40 (DIN 40050)
- Number of solenoids : 20 max.
- Max. 24 V=/5.4 W per solenoid
- 5 common wires

Note : Use desired MOD. number after circuit bar part number

Connector termination details

