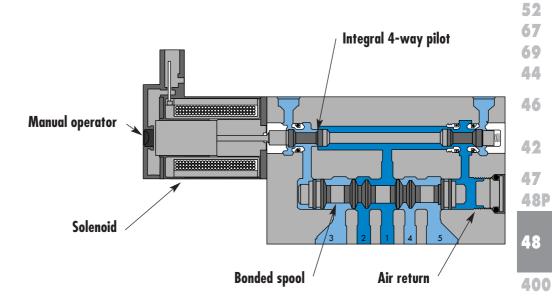
Individual mounting Sub-base non "plug-in" Sub-base "plug-in" with larthing solenoid Sub-base non "plug-in" with larthing solenoid Sub-base "manifold base non "plug-in" with larthing solenoid Sub-base "manifold base "plug-in" with larthing solenoid 334 34 350-base "manifold base "plug-in" with larthing solenoid Sub-base "manifold base "plug-in" with larthing solenoid 336 347 38



SERIES FEATURES

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

92

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unction		Port size	Flow (Max)	Individual mountin	9	Series
/2, 5/3		1/8″	1.1 C _v	Sub-base non "plug-in"		
ERATIONAL BEN	EFITS				4	33
1-way valve wit 16 mm valve (st						34
High flow (up to Tast repeatable Maximum shiftir	1.1 C _v). response time	······································			100	36
Long life.					S. A.	32
					16 .00	37
						38
						52
HOW TO ORDI	R					67
NGLE PRESSU	JRE MODEL	.S (VALVE WITH BASE CC	DDED FOR SIDE PORTS)			69
Port size	Pilot air	5/2 Single solenoid	5/2 Double solenoid	5/3 Closed center	5/3 Open center	44
				12 2 4 14 14 17 17 17 17 17 17 17 17 17 17 17 17 17	12 2 4 14 MMD 14 17 17 17 17 17 17 17 17 17 17 17 17 17	46
Valve less	Internal	48B-AMA-000-G xxx-xxx	48B-BMA-000-G xxx-xxx	48B-EMA-000-G xxx-xxx	48B-FMA-000-G xxx-xxx	
base	External	48B-AMD-000-G xxx-xxx	48B-BMD-000-G xxx-xxx	48B-EMD-000-G xxx-xxx	48B-FMD-000-G xxx-xxx	42
I/8" NPTF	Internal	48B-AMA-AAL-Gxxx-xxx	48B-BMA-AAL-Gxxx-xxx	48B-EMA-AAL-Gxxx-xxx	48B-FMA-AAL-Gxxx-xxx	47
	External	48B-AMD-AAM-Gxxx-xxx	48B-BMD-AAM-Gxxx-xxx	48B-EMD-AAM-Gxxx-xxx	48B-FMD-AAM-Gxxx-xxx	47 48P
JAL PRESSUR	E MODELS	(VALVE WITH BASE COD	ED FOR SIDE PORTS)			701
Port size		Pilot air	5/2 Single solenoid	5/2 Double solenoid	5/3 Pressure center	48
			14 4 2 12 	14 4 2 12	12 2 4 14 MD 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40
			50 7 03	50 7 03		400
Valve less b	nse Int	ernal Supply #3 port	48B-CMB-000-G xxx-xxx	48B-DMB-000-G xxx-xxx	48B-HMB-000-G <i>xxx-xxx</i>	-100
		Supply #5 port	48B-CMC-000-Gxxx-xxx	48B-DMC-000-Gxxx-xxx	48B-HMC-000-G xxx-xxx	92
1 /6# NOT		ternal	48B-CMD-000-Gxxx-xxx	48B-DMD-000-G xxx-xxx	48B-HMD-000-Gxxx-xxx	
1/8" NPT	r Int	ernal Supply #3 port	48B-CMB-AAL-GXXX-XXX	48B-DMB-AAL-GXXX-XXX	48B-HMB-AAL-Gxxx-xxx	0.0
	———Ex	Supply #5 port	48B-CMC-AAL-GXXX-XXX 48B-CMD-AAM-GXXX-XXX	48B-DMC-AAL-G xxx-xxx 48B-DMD-AAM-G xxx-xxx	48B-HMC-AAL-G <i>xxx-xxx</i> 48B-HMD-AAM-G <i>xxx-xxx</i>	93
ANDARD SC			G xxx-xxx	-		ISO
, 11 1DAND 30	1010 OI	LIVITOR			1	ISO
			<u></u>			ISO
XX Volta	_	X Wire len			X Electrical connection	ISO
	C (2.5W) C (1.8W)	A 18" B 24"			Flying leads Flying leads with light	
DD 24 VD0	(2.5W)	C 36"			MAC JAC solenoid plug-in	ISO
DF 24 VDC	C (4.0W)				Plug-in wire assy. Plug-in wire assy. with light	
					Plug-in wire assy. with rectifier & light & ground	

* Other options available, see page 311. Latching solenoid also available, see page 133. Note: AC voltage requires connector with rectifier. Other options available for the 48 series valves, see page 137.







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal pilot: 2 pos.: 20 to 120 PSI - 3 pos.: 35 to 120 PSI

External pilot: vacuum to 120 PSI

2 position : 20 to 120 PSI - 3 position : 35 to 120 PSI Pilot pressure:

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 $+50^{\circ}$ C)

Flow: 1/8" side ports: (1.0 C_v) – 1/8" bottom ports: (1.1 C_v)

Coil: Class A wire (#22 AWG x 18), continuous duty

-15% to +10% of nominal voltage Voltage range:

Power: 1.0 to 4.0 W

Response times: Energize : 6 ms (with 4 W coil) De-energize : 6 ms

Options: • BSPP threads • 1/4" O.D. pressed in tube receptacles • Sandwich Flow controls: FC48B-BB

• Sandwich regulator: see "regulators" section

DIMENSIONS Dimensions shown are metric (mm) 1/8" EXT. _ PILOT COMMON 29.5 21.5 16.7 12.0 15.3 24.9 \otimes 69.2 116.9 I APPROX <u>ك</u> 0 \oplus 0 1/8" PORTS MAC 2 50.4 \otimes 29.0 8.0 - 3/8" IN & EXH COMMONS 6.3 -23.3 13.9 Ø 5.3 86.00



Function	Port size Flow (Max)		Individual mounting	Series
5/2, 5/3	1/8"	1.1 C _V	Sub-base "plug-in"	
OPERATIONAL BENEFITS				33
1. 4-way valve with 4-way				34

- 4-way valve with 4-way integral pilot.
- 2. 16 mm valve (stacks on 16.5 mm centers).
- 3. High flow (up to 1.1 C_v).
- 4. Fast repeatable response times.
- 5. Maximum shifting forces in both directions.
- 6. Long life.



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47 **48P**

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HOW TO ORDER

SINGLE PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS) - VALVE WITH BASE CODED FOR SIDE PORTS

Port size	e Pilot air 5/2 Single solenoid		Single solenoid Double solenoid		5/3 Open center
		12 2 4 14 17 14 3 15	12 2 4 14 12 7 7 3 15	12 2 4 14 MD 1 1 1	12 2 4 14 14 17 17 17 17 17 17 17 17 17 17 17 17 17
Valve less	Internal	48B-AMA-000-G xx P- xxx	48B-BME-000-G xx P- x ST	48B-EME-000-G xx P- x ST	48B-FME-000-G xx P- x ST
base	External	48B-AMD-000-G xx P- xxx	48B-BMH-000-G xx P- x ST	48B-EMH-000-G xx P- x ST	48B-FMH-000-G xx P- x ST
1/8" NPTF	Internal	48B-AMA-AAA-GxxP-xxx	48B-BME-AAC-GxxP-xST	48B-EME-AAC-GxxP-xST	48B-FME-AAC-GxxP-xST
	External	48B-AMD-AAB-GxxP-xxx	48B-BMH-AAD-G xx P- x ST	48B-EMH-AAD-GxxP-xST	48B-FMH-AAD-G xx P- x ST

DUAL PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS) - VALVE WITH BASE CODED FOR SIDE PORTS

Port size	Pilot air	5/2 Single solenoid	5/2 Double solenoid	5/3 Pressure center
		14 4 2 12 17D 19 30 9 3	14 1/\(\tau\) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	12 2 4 14 MD TM
Valve less base	Internal Supply #3 port	48B-CMB-000-G xx P- xxx	48B-DMF-000-G xx P- x ST	48B-HMF-000-G xx P- x ST
	Supply #5 port	48B-CMC-000-G xx P- xxx	48B-DMG-000-G xx P- x ST	48B-HMG-000-G xx P- x ST
	External	48B-CMD-000-G xx P- xxx	48B-DMH-000-G xx P- x ST	48B-HMH-000-GxxP-xST
1/8" NPTF	Internal Supply #3 port	48B-CMB-AAA-GxxP-xxx	48B-DMF-AAC-GxxP-xST	48B-HMF-AAC-GxxP-xST
	Supply #5 port	48B-CMC-AAA-GxxP-xxx	48B-DMG-AAC-GxxP-xST	48B-HMG-AAC-GxxP-xST
	External	48B-CMD-AAB-GxxP-xxx	48B-DMH-AAD-GxxP-xST	48B-HMH-AAD-GxxP-xST

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XX	Voltage	Х	Manual operator	ХХ	Electrical connection
AA	120 VAC (2.5W)	1	Non-locking recessed	Doub	le solenoid & 3 position models
DC	24 VDC (1.8W)	2	Locking recessed	ST	Base plug-in
DD	24 VDC (2.5W)			Single	e solenoid models
DF	24 VDC (4.0W)	•		SA	Base plug-in
		-		SJ	Base plug-in with LED light
				55	Base plug-in with rectifier & light & ground

* Other options available, see page 311.
Latching solenoid also available, see page 135.
Note: AC voltage requires connector with rectifier (For double solenoid consult factory).
Other options available for the 48 series valves, see page 138.







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal pilot: 2 pos.: 20 to 120 PSI - 3 pos.: 35 to 120 PSI

External pilot: vacuum to 120 PSI

Pilot pressure: 2 position: 20 to 120 PSI - 3 position: 35 to 120 PSI

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" side ports: $(1.0 \text{ C}_{v}) - 1/8$ " bottom ports: (1.1 C_{v})

Coil: Class A continuous duty, #22 AWG x 12 base leads

Voltage range: -15% to +10% of nominal voltage

Power: 1.0 to 4.0 W

Response times : Energize : 6 ms

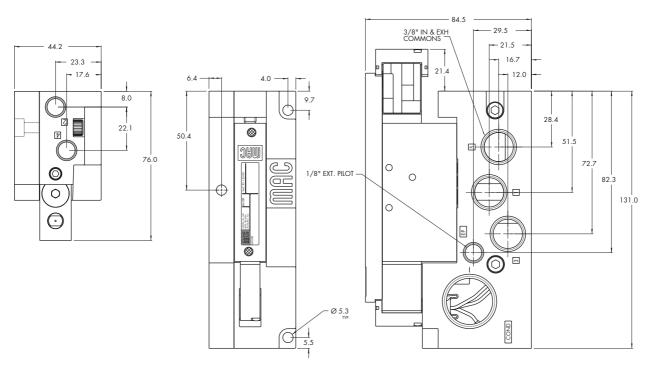
(with 4 W coil) De-energize : 6 ms

Options: • BSPP threads • 1/4" O.D. pressed in tube receptacles • Sandwich Flow controls: FC48B-AB

• Sandwich regulator: see "regulators" section

DIMENSIONS

Dimensions shown are metric (mm)





Function	Port size	Flow (Max)	Manifold mounting	Series
5/2, 5/3	1/8"	1.1 C _v	Manifold base non "plug-in"	

OPERATIONAL BENEFITS

- 1. 4-way valve with 4-way integral pilot.
- 2. 16 mm valve (stacks on 16.5 mm centers).
- 3. High flow (up to 1.1 $\rm C_{V}$).
- 4. Fast repeatable response times.
- 5. Maximum shifting forces in both directions.
- 6. Long life.



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37 38 **52**

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47 **48P**

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HOW TO ORDER

SINGLE PRESSURE MODELS (MIDDLE STATION MANIFOLDS WITH SIDE PORTS)

SINGLE TREGORIE MODELO (MIDDLE OF MICHAEL MICHAEL PORTO)							
Port size	Pilot air	5/2 Single solenoid	5/2 Double solenoid	5/3 Closed center	5/3 Open center		
		12 2 4 14 14 3 15	12 2 4 14 17 14 315	12 2 4 14 MD 11 11 13 MM 17 17 17 17 17 17 17 17 17 17 17 17 17 1	12 2 4 14 15 MM 7 D T T T T T T T T T T T T T T T T T T		
Valve less	Internal	48B-AMA-000-G xxx-xxx	48B-BMA-000-Gxxx-xxx	48B-EMA-000-G xxx-xxx	48B-FMA-000-G xxx-xxx		
base	External	48B-AMD-000-G xxx-xxx	48B-BMD-000-Gxxx-xxx	48B-EMD-000-G xxx-xxx	48B-FMD-000-G xxx-xxx		
1/8" NPTF	Internal	48B-AMA-AJL-Gxxx-xxx	48B-BMA-AJL-Gxxx-xxx	48B-EMA-AJL-G xxx-xxx	48B-FMA-AJL-G xxx-xxx		
	External	48B-AMD-AJM-Gxxx-xxx	48B-BMD-AJM-Gxxx-xxx	48B-EMD-AJM-G xxx-xxx	48B-FMD-AJM-Gxxx-xxx		

DUAL PRESSURE MODELS (MIDDLE STATION MANIFOLDS WITH SIDE PORTS)

Port size	Pilot ai	ir	5/2 Single solenoid	5/2 Double solenoid	5/3 Pressure center
			14 4 2 12 17D T 30 63	14 4 2 12 14 7 3 0 0 3	12 2 4 14 MD 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Valve less base	Internal Supply	#3 port	48B-CMB-000-Gxxx-xxx	48B-DMB-000-Gxxx-xxx	48B-HMB-000-G xxx-xxx
	Supply	#5 port	48B-CMC-000-G xxx-xxx	48B-DMC-000-G xxx-xxx	48B-HMC-000-Gxxx-xxx
	External		48B-CMD-000-G xxx-xxx	48B-DMD-000-G xxx-xxx	48B-HMD-000-G xxx-xxx
1/8" NPTF	Internal Supply	#3 port	48B-CMB-AJL-Gxxx-xxx	48B-DMB-AJL-Gxxx-xxx	48B-HMB-AJL-Gxxx-xxx
	Supply	#5 port	48B-CMC-AJL-Gxxx-xxx	48B-DMC-AJL-Gxxx-xxx	48B-HMC-AJL-Gxxx-xxx
	External		48B-CMD-AJM-Gxxx-xxx	48B-DMD-AJM-Gxxx-xxx	48B-HMD-AJM-Gxxx-xxx

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G XXX-XXX	*
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				ነ ነ			
XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connection
AA	120 VAC (2.5W)	A	18"	1	Non-locking recessed	BA	Flying leads
DC	24 VDC (1.8W)	В	24"	2	Locking recessed	BT	Flying leads with light
DD	24 VDC (2.5W)	С	36"			GA	MAC JAC solenoid plug-in
DF	24 VDC (4.0W)					KA	Plug-in wire assy.
						KT	Plug-in wire assy. with light
						KD	Plug-in wire assy. with
* Other o	options available, see page 311.						rectifier & light & ground

^{*} Other options available, see page 311.
Latching solenoid also available, see page 133.
Note: - AC voltage requires connector with rectifier.
- Manifold assemblies consist of (1) left end manifold, (1) right end manifold, and middle station manifolds (options "J" or "K").
Other options available for the 48 series valves, see page 137.







Compressed air, vacuum, inert gases Fluid:

Pressure range: Internal pilot: 2 pos.: 20 to 120 PSI - 3 pos.: 35 to 120 PSI

External pilot: vacuum to 120 PSI

Pilot pressure: 2 position : 20 to 120 PSI - 3 position : 35 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 $+50^{\circ}$ C)

Flow: 1/8" side ports: (1.0 C_v) – 1/8" bottom ports: (1.1 C_v)

Coil: Class A wire (#22 AWG x 18), continuous duty

-15% to +10% of nominal voltage Voltage range:

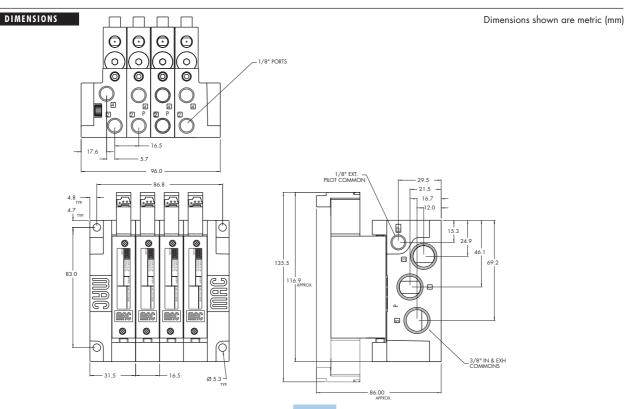
Power: 1.0 to 4.0 W

Response times: Energize : 6 ms (with 4 W coil) De-energize : 6 ms

Options: • BSPP threads • 1/4" O.D. pressed in tube receptacles • Sandwich flow controls: FC48B-BB

• Sandwich regulator: see "regulators" section

• Valve blanking plate: M-48004 • Isolator disk for inlet/exhaust: 28471





Selles 48	Nort size	Claus (Mays)	Manifold mounting	Corino
Function	Port size	Flow (Max)	Manifold mounting	Series
5/2, 5/3	2, 5/3 1/8" 1.1 C _v		Manifold base "plug-in"	
OPERATIONAL BENEFITS				33
 4-way valve with 4-wa 16 mm valve (stacks or 	y integral pilot. n 16.5 mm centers).		22	34
3. High flow (up to 1.1 C 4. Fast repeatable respon	ise times.		AFF	36
 Maximum shifting force Long life. 	es in both directions.		2 2 3	32
			2 3 2 3 1 1	37
				38
			4 6	52

HOW TO ORDER

SINGLE PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS)

Port size	Pilot air	5/2 Single solenoid	5/2 Double solenoid	5/3 Closed center	5/3 Open center
		12 2 4 14 17D 14 315	12 2 4 14 17 1 3 15	12 2 4 14 MD 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 2 4 14 MD 1 1 14 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Valve less	Internal	48B-AMA-000-G xx P- xxx	48B-BME-000-GxxP-xST	48B-EME-000-GxxP-xST	48B-FME-000-G xx P- x ST
base	External	48B-AMD-000-G xx P- xxx	48B-BMH-000-G xx P- x ST	48B-EMH-000-G xx P- x ST	48B-FMH-000-G xx P- x ST
1/8" NPTF	Internal	48B-AMA-AJA-G xx P- xxx	48B-BME-AJC-GxxP-xST	48B-EME-AJC-GxxP-xST	48B-FME-AJC-GxxP-xST
	External	48B-AMD-AJB-GxxP-xxx	48B-BMH-AJD-GxxP-xST	48B-EMH-AJD-GxxP-xST	48B-FMH-AJD-GxxP-xST

DUAL PRESSURE MODELS (LED STANDARD EXCEPT FOR SINGLE SOLENOIDS)

Supply #3 port	48B-CMB-000-GxxP-xxx	14 2 12 12 12 4 2 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	12 2 4 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15
117 1		48B-DMF-000-G xx P- x ST	48B-HMF-000-G xx P- x ST
C 1 "F .			
Supply #5 port	48B-CMC-000-GxxP-xxx	48B-DMG-000-G xx P- x ST	48B-HMG-000-G xx P- x ST
ıl	48B-CMD-000-GxxP-xxx	48B-DMH-000-G xx P- x ST	48B-HMH-000-G xx P- x ST
Supply #3 port	48B-CMB-AJA-GxxP-xxx	48B-DMF-AJC-GxxP-xST	48B-HMF-AJC-GxxP-xST
Supply #5 port	48B-CMC-AJA-GxxP-xxx	48B-DMG-AJC-GxxP-xST	48B-HMG-AJC-GxxP-xST
ıl	48B-CMD-AJB-GxxP-xxx	48B-DMH-AJD-GxxP-xST	48B-HMH-AJD-GxxP-xST
	11 / 1	Supply #5 port 48B-CMC-AJA-GxxP-xxx	Supply #5 port 48B-CMC-AJA-GxxP-xxx 48B-DMG-AJC-GxxP-xST

STANDARD SOLENOID OPERATOR ➤

G xx P-xxx

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XX	Voltage	X	Manual operator	XX	Electrical connection
AA	120 VAC (2.5W)	1	Non-locking recessed	Doub	ole solenoid & 3 position models
DC	24 VDC (1.8W)	2	Locking recessed	ST	Base plug-in
DD	24 VDC (2.5W)		-	Singl	le solenoid models
DF	24 VDC (4.0W)			SA	Base plug-in
				SJ	Base plug-in with LED light
				55	Base plua-in with rectifier & light & ground

^{*} Other options available, see page 311.
Latching solenoid also available, see page 135.
Note: - AC voltage requires connector with rectifier. (For double solenoid consult factory).
- Manifold assemblies consist of (1) left end manifold, (1) right end manifold, and middle station manifolds (options "J" or "K").

Other options available for the 48 series valves, see page 138.







Fluid: Compressed air, vacuum, inert gases

Pressure range: Internal pilot: 2 pos.: 20 to 120 PSI - 3 pos.: 35 to 120 PSI

External pilot: vacuum to 120 PSI

Pilot pressure: 2 position : 20 to 120 PSI - 3 position : 35 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 $+50^{\circ}$ C)

Flow: 1/8" side ports: (1.0 C_v) – 1/8" bottom ports: (1.1 C_v)

Coil: Class A wire (#22 AWG x 18), continuous duty

-15% to +10% of nominal voltage Voltage range:

Power: 1.0 to 4.0 W

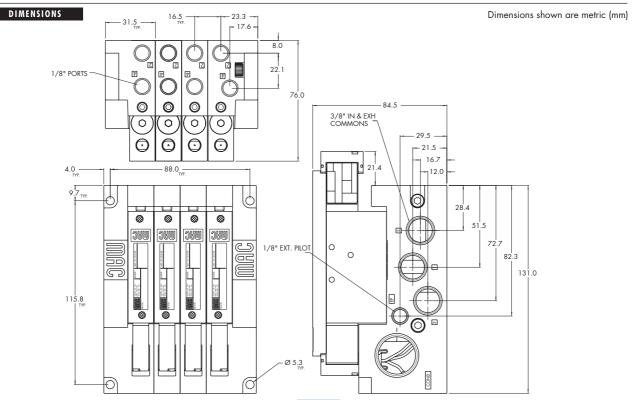
Response times: Energize : 6 ms (with 4 W coil) De-energize: 6 ms

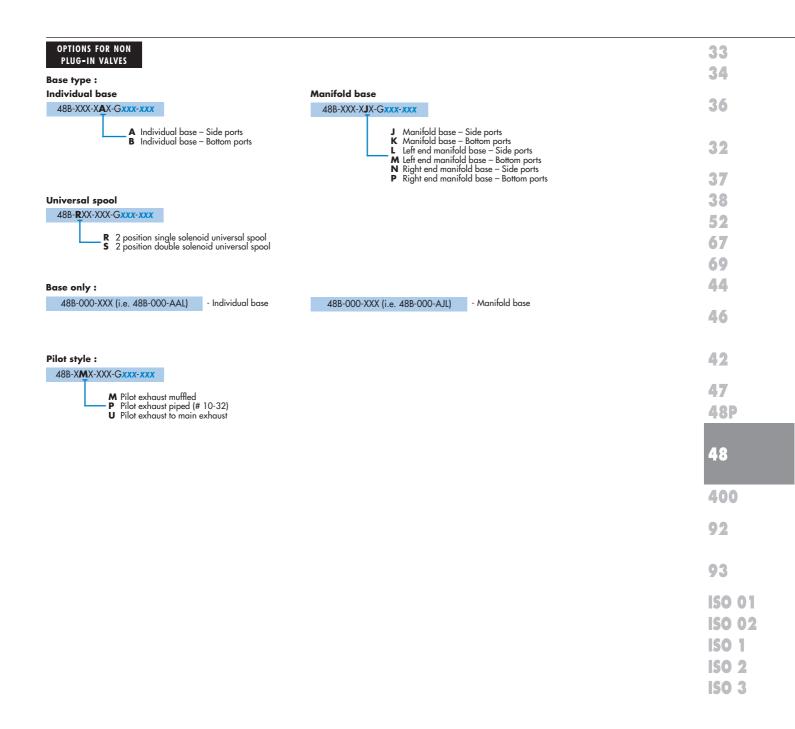
Options: • BSPP threads • 1/4" O.D. pressed in tube receptacles • Sandwich flow controls: FC48B-AB

• Sandwich regulator: see "regulators" section

• Valve blanking plate: M-48004 • Isolator disk for inlet/exhaust: 28471

• Plug-in wire protector: 24180





Pilot style:

48B-XMX-XXX-GxxP-xxx

M Pilot exhaust muffled
P Pilot exhaust piped (# 10-32)
U Pilot exhaust to main exhaust

Direct solenoid and solenoid pilot operated valves

OPTIONS FOR PLUG-IN VALVES Base type: Manifold base Individual base 48B-XXX-X**J**X-G**xx**P-**xxx** 48B-XXX-XAX-GxxP-xxx J Manifold base – Side ports K Manifold base – Bottom ports L Left end manifold base – Side ports M Left end manifold base – Bottom ports N Right end manifold base – Side ports P Right end manifold base – Bottom ports A Individual base – Side ports B Individual base – Bottom ports **Universal spool** 48B-RXX-XXX-GxxP-xxx 2 position single solenoid universal spool 2 position double solenoid universal spool Base only: 48B-000-XXX (i.e. 48B-000-AAA) 48B-000-XXX (i.e. 48B-000-AJC) - Individual base wired for a single solenoid valve - Manifold base wired for a double solenoid valve For LED with diode (2 & 3 position double solenoid valves) 48B-XX**J**-XXX-G**xx**P-**x**ST J Internal pilot single pressure K Internal pilot dual pressure supply from #3 port L Internal pilot dual pressure supply from #5 port M External pilot



Individual mounting Series Inline 33

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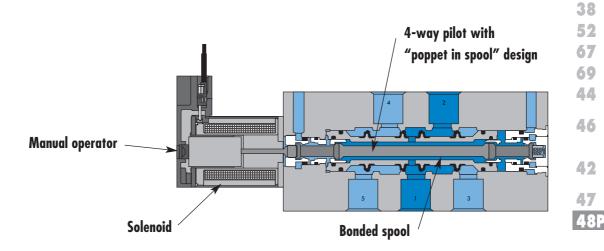
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SERIES FEATURES

- High force MACSOLENOID®.
- Integral 4-way pilot with poppet inside the spool.
- Large flow in compact package.
- Single or dual pressure.
- Rectified AC voltage.



Function	Port size	Flow (1	Max]	Individual I	mounting	Series
5/2	1/8"	1.0	Ç v	Inline		
OPERATIONAL BENEFITS 1. 4-way valve with 4-way 2. Poppet in spool design	•					33 34
3. 16 mm valve (stacks on4. High flow (up to 1.0 Cv5. Fast repeatable responses6. Maximum shifting force	v). se times.				0	36
7. Long life. 8. Compact design.						32
						37
						38 52
HOW TO ORDER						67
Port size	Pilot	5	/2 Single oper		5/2 Single operator	69
			Single pressur	e	Dual pressure	44
	-		315			46
1/8"	Internal Int		48PB-AAA-A00-G xxx -	<u>xxx</u>	48PB-CAB-A00-Gxxx-xxx	
	Internal from port 5		-		48PB-CAC-A00-Gxxx-xxx	42
Standard Soleno	NID ∩PER∆T∩R ➤	G V	(X- <u>XXX</u> *			47
01711 1271112 0022110	or Electronic s		`` [``			48P
XX Voltage	X Wi	re length	X M	anual operator	XX Electrical connection	
AA 120 VAC (2.5V DC 24 VDC (1.8W)				n-locking king	BA Flying leads BT Flying leads with light	48
DD 24 VDC (2.5W) DF 24 VDC (4.0W)	C 36"			King	GA MAC JAC solenoid plug-in KA Plug-in wire assy.	
24 VDC (4.0VV)	1				KT Plug-in wire assy. with light	400
* Other options available, Note : AC voltage requires	see page 311. connector with rectifier.				KD Plug-in wire assy. with rectifier & light & ground	92
OPTIONS						
48PB-X X X-X00-G xx-x X	xx					93
Ī						ISO 01
C Pilot e	exhaust muffled exhaust piped M5					ISO 02
D Pilot e	exhaust out main exhaust					ISO 1
						ISO 2
						ISO 2







Coil:

Fluid: Compressed air, vacuum, inert gases

Pressure range:

Lubrication: Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)

Class A wire continuous duty, #22 AWG x 18 leads

Filtration: 40 µ

Temperature range : 0°F to 120°F (18°C to +50°C)

Flow: Cv 1,0

-15% to +10% of nominal voltage Voltage range:

1.0 to 4.0 W Power:

• BSPP threads Options :

DIMENSIONS

113.0 Dimensions shown are metric (mm) 16.0 33.4 16.0 \overline{r} 8.0 Z 1/8"- BSPP (5 PLACES) 35.5 56.3 13.2 Ø 4.2 82.8 15.5 15.5 **−** 25.9



Codification table for voltages / Manual operator / Electrical connection

VALVE CODE > $G \underbrace{XX}_{1} \underbrace{X-X}_{2} \underbrace{XX}_{4}$

OPTIONS AVAILABLE FOR

- Solenoid valves 32, 34, 38, 42, 44 & 48 Series



	1. VOLTAGE		4. ELECTRICAL CONNECTION
G-XX X-X XX	VOLTAGE	G-XX X-X XX	ELECTRICAL CONNECTION
AA	120 VAC (2.5W) Requires electrical connector with rectifier	BA	Flying leads
AC	24 VAC (4.0W) Requires electrical connector with rectifier	ВВ	BA with ground wire
DA	24 VDC (1.0W)	ВС	BA with light
DC	24 VDC (1.8W)	BD	BA with light and ground wire
DD	24 VDC (2.5W)	BE	BA with suppression diode
DE	24 VDC (3.0W)	BF	BA with suppression diode and ground wire
DF	24 VDC (4.0W)	BG	BA with suppression diode and light
DG	12 VDC (1.0W)	ВН	BA with suppression diode, light and ground wire
DJ	12 VDC (1.8W)	BN	BA with suppression diode and blocking diode
DK	12 VDC (2.5W)	BP	BA with suppression diode, blocking diode and ground wire
DM	12 VDC (3.0W)	BR	BA with suppresion diode, blocking diode and light
DN	12 VDC (4.0W)	BS	BA with suppression diode, blocking diode, light and ground
DR	6 VDC (1.8W)		wire
DS	6 VDC (3.0W)	GA	MAC JAC Solenoid plug-in
EB	48 VDC (1.8W)	GB	MAC JAC Solenoid plug-in w/Diode
EC	48 VDC (3.0W)	GC	MAC JAC Solenoid plug-in w/MOV
ED	120 VDC (2.5W)	GD	MAC JAC Solenoid plug-in w/LED
GD	12 VDC (0.5W) 34 series only	GE	MAC JAC Solenoid plug-in w/Diode & LED
GE	24 VDC (0.5W) 34 series only	GF	MAC JAC Solenoid plug-in w/MOV & LED
		GG	MAC JAC Solenoid plug-in w/Rectifier
	2. WIRE LENGTH	GH	MAC JAC Solenoid plug-in w/Rectifier & LED
		KA	Solenoid plug-in wire assembly
G-XX X-X XX	WIRE LENGTH	КВ	KA with ground
0	No lead wires (used only with "KJ" & "KM" connectors)	KC	KA with rectifier and light
A	18" coil leads	KD	KA with rectifier, light and ground
В	24" coil leads	KE	KA with suppression diode
C	36" coil leads	KF	KA with suppression diode and ground
D	48" coil leads	KJ	Solenoid plug-in housing without wire assembly
E	72" coil leads	KM	Solenoid plug-in housing with ground pin without wire
F	96" coil leads		assembly
G	120" coil leads	KN	KA with suppression diode and blocking diode
Н	144" coil leads	KP	KA with suppression diode, blocking diode and ground
1	18" base leads	KT	KA with light
2	24" base leads	KU	KA with light and ground
3	36" base leads	KV	KA with suppression diode and light
4	48" base leads	KW	KA with suppression diode, light and ground
5	72" base leads	KX	KA with suppression diode, blocking diode and light
6	96" base leads	KY	KA with suppression diode, blocking diode, light & ground
7	120" base leads	FLFA	TRICAL CONNECTION FOR PLUG-IN VALVES
	3. MANUAL OPERATOR	ELEC	irical connection for Plug-in Valves
A WW W W W W	MANUAL OPPOSED	G-XX X-X XX	PLUG-IN OPTIONS
G-XX X-X XX	MANUAL OPERATOR	SB	Base plug-in with ground
	Non-locking recessed	SC	Base plug-in with suppression and blocking diode
2	Locking recessed	SD	Base plug-in with suppression and blocking diode and ground
3	Non-locking extended	SE	Base plug-in with MOV
4	Locking extended	SF SC	Base plug-in with MOV and ground
		SG	Base plug-in with rectifier
		SH	Base plug-in with rectifier and ground
		SK SI	Base plug-in with light and ground
		SL SM	Base plug-in with suppression and blocking diode and light
		SM.	Base plug-in with suppression and blocking diode with light
		-	and ground
		SN SP	Base plug-in with MOV and light
		SP	Base plug-in with MOV and light with ground
		SR .	Base plug-in with rectifier and light