

Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow [Max]	Individual mounting
5/2	1/8" - 1/4"	1.0 Cv	Inline

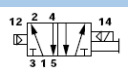
OPERATIONAL BENEFITS

1. The 4-way pilot develops maximum shifting force both ways.
2. Patented conical seats for long life.
3. Short stroke with high flow.
4. Bonded poppet with minimal friction
5. Wiping effect eliminates sticking.
6. Extremely repeatable response.

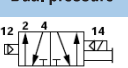


HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot	5/2 Single pressure
		
1/8" NPTF	Internal	27A-11-A0A-XX-Xxxx-xxx
	External	27A-11-A0B-XX-Xxxx-xxx
1/4" NPTF*	Internal	27A-11-B0A-XX-Xxxx-xxx
	External	27A-11-B0B-XX-Xxxx-xxx

DUAL PRESSURE MODELS (INTERNAL PILOT - PILOT PRESSURE SUPPLY FROM #5 PORT)

Port size	Pilot	5/2 Dual pressure
		
1/8" NPTF	Internal	27A-31-A0A-XX-Xxxx-xxx
	External	27A-31-A0B-XX-Xxxx-xxx
1/4" NPTF*	Internal	27A-31-B0A-XX-Xxxx-xxx
	External	27A-31-B0B-XX-Xxxx-xxx

* Inline body ports #3 and #5 are always 1/8"

SOLENOID OPERATOR

DM - D xxx-xxx

XX Voltage	X Wire length	X Manual operator	XX Electrical connector
JA 110/50, 120/60 (2.9W)	A 18" (Flying leads)	1 Non locking	KA Square connector
JB 220/50, 240/60 (2.9W)	B 24" (Flying leads)	2 Locking	KD Square connector with light
JC 24/60 (2.9W)	J Connector		JB Rectangular connector
FB 24 VDC (1.8W)			JD Rectangular connector with light
DA 24 VDC (5.4W)			BA Flying leads
DF 24 VDC (12.7W)			

SOLENOID OPERATOR

GM - G xxx-xxx

XX Voltage	X Wire length	X Manual operator	XX Electrical connector
DC 24 VDC (1.8W)	A 18"	1 Non locking	BA Flying leads
DD 24 VDC (2.5W)	B 24"	2 Locking	BT Flying leads with light
DF 24 VDC (4.0W)	C 36"		KA Plug-in wire assy.
			KT Plug-in wire assy. with light

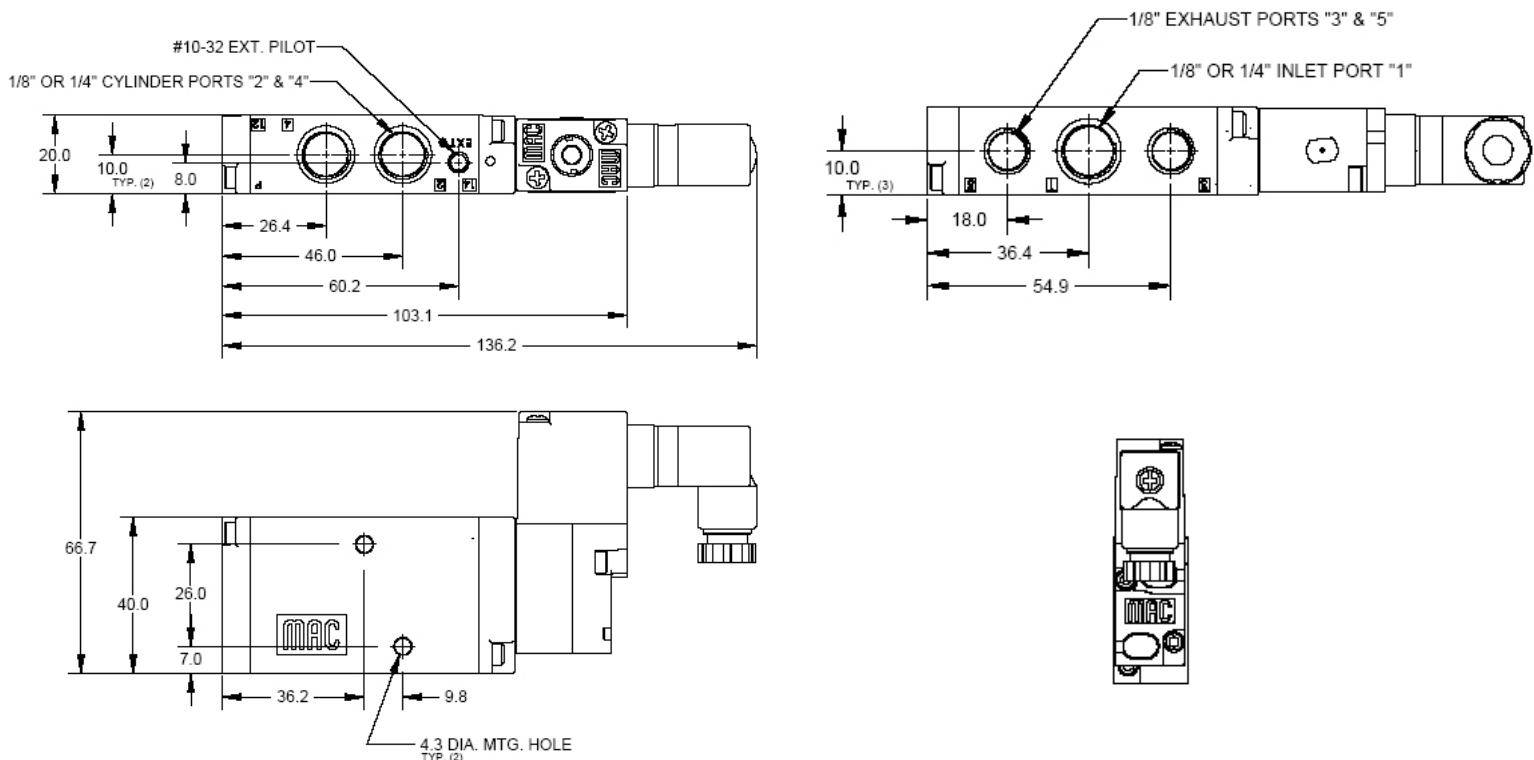
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI (External pilot) 30 to 120 PSI (Internal pilot)
Pilot pressure :	30 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
Flow (at 6 bar, $\Delta P=1$ bar) :	1.0 Cv
Coil :	Class A continuous duty, #22 AWG x 18 lead wires
Voltage range:	-15% to +10% of nominal voltage
Protection :	Consult factory
Power:	DC 12/24 Volt 1.0w to 5.4w (Higher wattages available) AC 24, 120, 220, 240 VAC

Options:

- BSPP threads
- 27A-31-A0A-XX-XXXX-XXX
Dual pressure models, replace by C for pilot supply from #3 port

DIMENSIONS



Direct solenoid and solenoid pilot operated valves

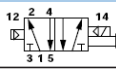
Function	Port size	Flow [Max]	Individual mounting
5/2	1/8" - 1/4"	1.0 Cv	Sub-base

OPERATIONAL BENEFITS

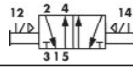
1. The 4-way pilot develops maximum shifting force both ways.
2. Patented conical seats for long life.
3. Short stroke with high flow.
4. Bonded poppet with minimal friction.
5. Wiping effect eliminates sticking.
6. Extremely repeatable response.

HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot	5/2 Single pressure
		
Valve less base	Internal	27A-13-00D-XX-Xxxx-xxx
	External	27A-13-00G-XX-Xxxx-xxx
1/8" NPTF	Internal	27A-13-A1D-XX-Xxxx-xxx
	External	27A-13-A1G-XX-Xxxx-xxx
1/4" NPTF	Internal	27A-13-B1D-XX-Xxxx-xxx
	External	27A-13-B1G-XX-Xxxx-xxx

DUAL PRESSURE MODELS (INTERNAL PILOT - PILOT PRESSURE SUPPLY FROM #5 PORT)

Port size	Pilot	5/2 Dual pressure
		
Valve less base	Internal from port #5	27A-33-00D-XX-Xxxx-xxx
	Internal from port #3	27A-33-00E-XX-Xxxx-xxx
	External	27A-33-00G-XX-Xxxx-xxx
1/8" NPTF	Internal from port #5	27A-33-A1D-XX-Xxxx-xxx
	Internal from port #3	27A-33-A1E-XX-Xxxx-xxx
	External	27A-33-A1G-XX-Xxxx-xxx
1/4" NPTF	Internal from port #5	27A-33-B1D-XX-Xxxx-xxx
	Internal from port #3	27A-33-B1E-XX-Xxxx-xxx
	External	27A-33-B1G-XX-Xxxx-xxx

Note: Above models are side ported

SOLENOID OPERATOR

DM - D **xxx-xxx**

XX Voltage	X Wire length	X Manual operator	XX Electrical connector
JA 110/50, 120/60 (2.9W)	A 18" (Flying leads)	1 Non locking	KA Square connector
JB 220/50, 240/60 (2.9W)	B 24" (Flying leads)	2 Locking	KD Square connector with light
JC 24/60 (2.9W)	J Connector		JB Rectangular connector
FB 24 VDC (1.8W)			JD Rectangular connector with light
DA 24 VDC (5.4W)			BA Flying leads
DF 24 VDC (12.7W)			

SOLENOID OPERATOR

GM - G **xxx-xxx**

XX Voltage	X Wire length	X Manual operator	XX Electrical connector
DC 24 VDC (1.8W)	A 18"	1 Non locking	BA Flying leads
DD 24 VDC (2.5W)	B 24"	2 Locking	BT Flying leads with light
DF 24 VDC (4.0W)	C 36"		KA Plug-in wire assy.
			KT Plug-in wire assy. with light

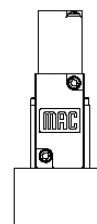
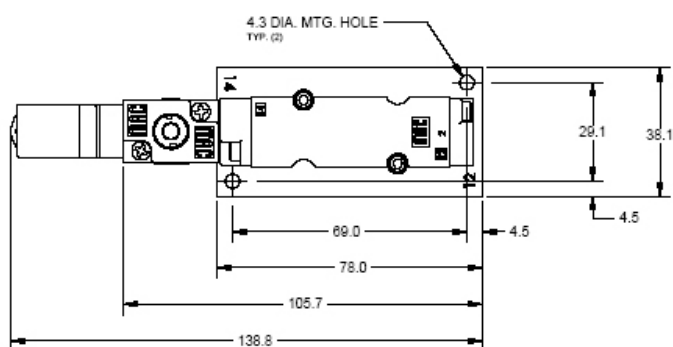
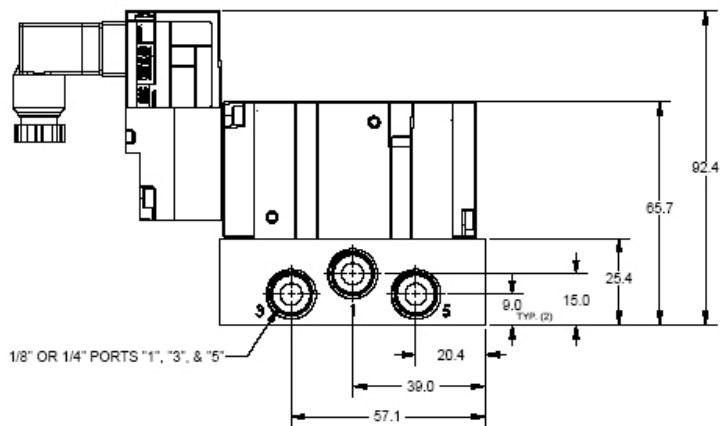
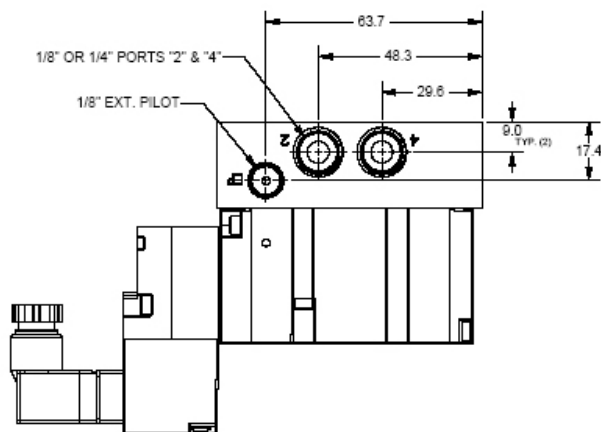
TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI (External pilot) 30 to 120 PSI (Internal pilot)
Pilot pressure :	30 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
Flow (at 6 bar, ΔP=1bar) :	1.0 Cv
Coil :	Class A continuous duty, #22 AWG x 18 lead wires
Voltage range:	-15% to +10% of nominal voltage
Protection :	Consult factory
Power:	DC 12/24 Volt 1.0w to 5.4w (Higher wattages available) AC 24, 120, 220, 240 VAC

Options:

- BSPP threads
- 27A-13-A1D-XX-XXXX-XXX
 - For bottom cylinder ports, replace by **2**
 - For side ports with flow controls, replace by **3** (single pressure only)

DIMENSIONS





Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow [Max]	Circuit bar mounting
5/2	1/8" - 1/4"	1.0 Cv	Non plug-in

OPERATIONAL BENEFITS

1. The 4-way pilot develops maximum shifting force both ways.
2. Patented conical seats for long life.
3. Short stroke with high flow.
4. Bonded poppet with minimal friction.
5. Wiping effect eliminates sticking.
6. Extremely repeatable response.

HOW TO ORDER

HOW TO ORDER VALVE FOR CIRCUIT BAR MOUNTING

Port size	Pilot	5/2 Single pressure
Valve less base	Internal	27A-13-00D-XX-XXX-xxx
	External "12" end	27A-13-00G-XX-XXX-xxx
	External "14" end	27A-13-00J-XX-XXX-xxx

SOLENOID OPERATOR

DM - D XXX-XXX

XX Voltage	X Wire length	X Manual operator	XX Electrical connector
JA 110/50, 120/60 (2.9W)	A 18" (Flying leads)	1 Non locking	KA Square connector
JB 220/50, 240/60 (2.9W)	B 24" (Flying leads)	2 Locking	KD Square connector with light
JC 24/60 (2.9W)	J Connector		JB** Rectangular connector
FB 24 VDC (1.8W)			JD** Rectangular connector with light
DA 24 VDC (5.4W)			BA Flying leads
DF 24 VDC (12.7W)			

** These connector options require 26mm spacing - consult factory

SOLENOID OPERATOR

GM - G XXX-XXX

XX Voltage	X Wire length	X Manual operator	XX Electrical connector
DC 24 VDC (1.8W)	A 18"	1 Non locking	BA Flying leads
DD 24 VDC (2.5W)	B 24"	2 Locking	BT Flying leads with light
DF 24 VDC (4.0W)	C 36"		KA Plug-in wire assy.
			KT Plug-in wire assy. with light

HOW TO ORDER CIRCUIT BAR (21mm spacing)

Port size	Pilot air	Side Cyl. Ports	Bottom Cyl. Ports	Bottom cyl. ports w/ flow controls
1/8" NPTF	Internal	CBM27A-00AAA-xx	CBM27A-00BAA-xx	CBM27A-00CAA-xx
	External from 12 end*	CBM27A-00ABA-xx	CBM27A-00BBA-xx	CBM27A-00CBA-xx
	External from 14 end*	CBM27A-00ACA-xx	CBM27A-00BCA-xx	CBM27A-00CCA-xx
1/4" NPTF	Internal	CBM27A-00AAD-xx	CBM27A-00BAD-xx	CBM27A-00CAD-xx
	External from 12 end*	CBM27A-00ABD-xx	CBM27A-00BBD-xx	CBM27A-00CBD-xx
	External from 14 end*	CBM27A-00ACD-xx	CBM27A-00BCD-xx	CBM27A-00CCD-xx

xx = number of stations (03 = 3 stations)

Notes:

- For valves mounted on base at the factory, add -9 to the model number.
- Common through ports are 3/8"

*Common external pilot 1/8"

TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI (External pilot) 30 to 120 PSI (Internal pilot)
Pilot pressure :	30 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
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Coil :	Class A continuous duty, #22 AWG x 18 lead wires
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Protection :	Consult factory
Power:	DC 12/24 Volt 1.0w to 5.4w (Higher wattages available) AC 24, 120, 220, 240 VAC

Options: • BSPP threads

DIMENSIONS

