

Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow [Max]	Individual mounting	
3/2 NC, 2/2 NC	1/8" - 1/4"	1.0 Cv	Inline	

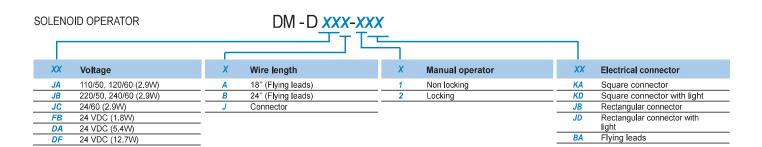
OPERATIONAL BENEFITS

- 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

		
Port size	Pilot	Single operator NC Valve
		10 2 37
1/8" NPTF	Internal	77A-11-A0A-XX-Xxxx
	External	77A-11-A0B-XX-Xxxx-xxxx
1/4" NPTF	Internal	77A-11-B0A-XX-Xxxx-xxx
	External	77A-11-B0B-XX-Xxxx-xxx



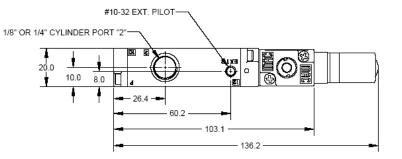
SOLENC	OID OPERATOR		GM-G <u>xx</u> x- <u>x</u> x	K			
XX	Voltage	X	Wire length	X	Manual operator	XX	Electrical connector
DC	24 VDC (1.8W)	Α	18"	1	Non locking	BA	Flying leads
DD	24 VDC (2.5W)	В	24"	2	Locking	BT	Flying leads with light
DF	24 VDC (4.0W)	С	36"			KA	Plug-in wire assy.
						KT	Plug-in wire assy. with light

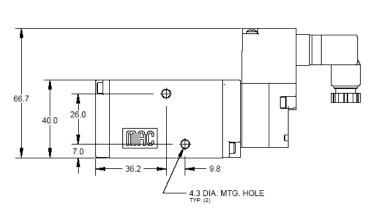


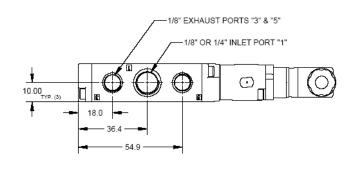
TECHNICAL DATA	
Fluid:	Compressed air, vacuum, inert gases
Pressure range :	Vacuum to 120 PSI (External pilot)
	30 to 120 PSI (Internal pilot)
Pilot pressure :	30 to 120 PSI
Lubrication :	Not required, if used select a medium aniline point lubricant (between 180°F and 210°F)
Filtration:	40 μ
Temperature range :	0°F to 120°F
Flow (at 6 bar, Δ P=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

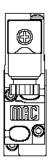
Options: • BSPP threads

DIMENSIONS











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Function	Port size	Flow [Max]	Individual mounting	
3/2 NC, 2/2 NC	1/8" - 1/4"	1.0 Cv	Sub-base	

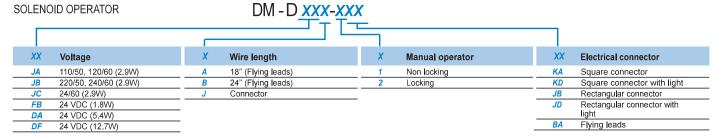
OPERATIONAL BENEFITS

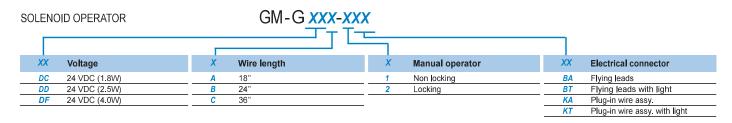
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HOW TO ORDER

Pilot	Single Operator NC Valve
	$\begin{array}{c c} 10 & 2 & 12 \\ \hline D & 7 & 37 \\ \hline 93 & 51 \end{array}$
Internal	77A-13-00C-XX-Xxxx-xxx
External	77A-13-00E-XX-Xxxx-xxx
Internal	77A-13-A1C-XX-Xxxx-xxx
External	77A-13-A1E-XX-Xxxx-xxx
Internal	77A-13-B1C-XX-Xxxx-xxxx
External	77A-13-B1E-XX-Xxxx-xxx
	Internal External Internal External Internal

Note: Above models are side ported





OPTIONS

77A-13-00 C -XX-Xxxx-xxx

- Internal pilot
- Internal pilot with pilot exhaust out main exhaust D*
- External pilot 10 end
 External pilot 10 end with pilot exhaust out main exhaust
- G External pilot 12 end
- H* External pilot 12 end with pilot exhaust out main exhaust

77A-13-A 1 C -XX-Xxxx-xxx

- For bottom cylinder port, replace by 2

^{*} Must use **DU** pilot body. Main exhaust cannot be restricted (i.e. 77A-13-00D-DU-DJAJ-1KA).



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, $\Delta P=1bar$): 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

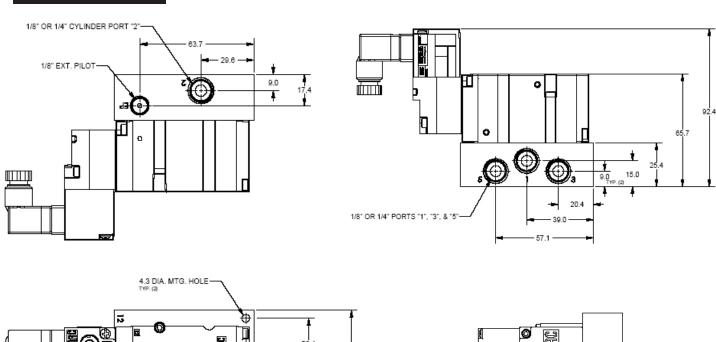
Options: • BSPP threads

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- 138.8

105.7

DIMENSIONS





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Function	Port size	Flow [Max]	Circuit bar mounting	
3/2 NC, 2/2 NC	1/8" - 1/4"	1.0 Cv	Non plug-in	

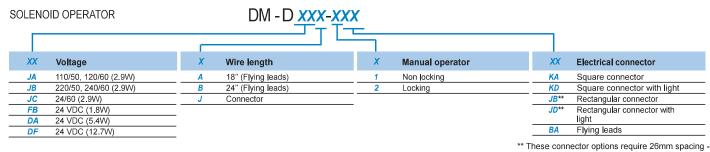
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HOW TO ORDER

HOW TO ORDER VALVE FOR CIRCUIT BAR MOUNTING

HOW TO ONDER VALVE FOR GROOT BAR MODITING				
Port size	Pilot	Single Operator NC Valve		
		12 2 4 14 371 371		
Valve less base	Internal	77A-13-00C-XX-Xxxx-xxx		
	External "10" end	77A-13-00E-XX-Xxxx-xxx		
	External "12" end	77A-13-00G-XX-Xxxx-xxx		



consult factory GM-G xxx-xxx SOLENOID OPERATOR **Electrical connector** Wire length Manual operator Voltage Flying leads DC 24 VDC (1.8W) 18" Non locking BT Flying leads with light DD 24 VDC (2.5W) 24 Locking KA Plug-in wire assy. DF 24 VDC (4.0W) 36" Plug-in wire assy. with light KT

HOW TO ORDER CIRCUIT BAR (21mm spacing)

Port size	Pilot air	Side Cyl. Port	Bottom Cyl. Port
1/8" NPTF	Internal	CBM77A-00AAA-xx	CBM77A-00BAA- <i>xx</i>
	External from 10 end* External from 12 end*	CBM77A-00ABA- xx CBM77A-00ACA- xx	CBM77A-00BBA-xx CBM77A-00BCA-xx
1/4" NPTF	Internal	CBM77A-00AAD-xx	CBM77A-00BAD-xx
	External from 10 end*	CBM77A-00ABD- <i>xx</i>	CBM77A-00BBD-xx
	External from 12 end*	CBM77A-00ACD-xx	CBM77A-00BCD-xx

xx = number of stations (03 = 3 stations)

Note:

- 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"



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