



Direct solenoid and solenoid pilot operated valves

Function	Port size	Flow (Max)	Circuit bar mounting	Series
3/2 NO-NC	1/4" –3/8"	Cv 2.0	Non plug-in	53

OPERATIONAL BENEFITS

1. The 4-way pilot develops maximum shifting force both ways
2. Memory spring available
3. Balanced spool, immune to variations of pressure, also provides high flow
4. Short stroke with high flow
5. Bonded spool with minimum friction, shifting in a glass-like finished bore
6. Pilot with balanced poppet, high flow, short and consistent response times.
7. Wiping effect eliminates sticking
8. Long service life



HOW TO ORDER

Pilot air	NC Valve	NO Valve
Internal	53A-1A0- xx-xxxx-xxx	53A-2A0- xx-xxxx-xxx
External from 10 end	53A-1B0- xx-xxxx-xxx	53A-2B0- xx-xxxx-xxx
External from 12 end	53A-1C0- xx-xxxx-xxx	53A-2C0- xx-xxxx-xxx

SOLENOID OPERATOR

DM – D xx x – x xx

XX	Voltage	X	Wire length	X	Manual Operator	XX	Electrical connection
JA	110/50, 120/60	A	18"	1	Non locking	BA	Flying leads
JB	220/50, 240/60	B	24"	2	Locking	KA	Mini square connector
JC	24/60	J [†]	6"			KD	Mini square connector with light
FB	24VDC (1,8W)					JB	Rectangular connector
DA	24VDC (5,4W)					JD	Rectangular connector with light
DF	24VDC (12,7W)						

† For use with "J" and "K" type connectors

GM – G xx x – x xx

XX	Voltage	X	Wire length	X	Manual Operator	XX	Electrical connection
DC	24VDC (1,8W)	A	18"	1	Non locking	BA	Flying leads
DD	24VDC (2,5W)	B	24"	2	Locking	BT	Flying leads with light
DF	24VDC (4,0W)	C	36"			KA	Solenoid plug-in wire assembly
						KT	Solenoid plug-in wire assembly with light
						GA	MAC JAC solenoid plug-in wire assembly

HOW TO ORDER CIRCUIT BAR

Port size	Pilot air	Side cylinder ports	Bottom cylinder ports
1/4" NPTF	Internal	EBM053A-00AAA- xx	EBM053A-00BAA- xx
	External	EBM053A-00ABA- xx	EBM053A-00BBA- xx
3/8" NPTF	Internal	EBM053A-00AAB- xx	EBM053A-00BAB- xx
	External	EBM053A-00ABB- xx	EBM053A-00BBB- xx

xx = Number of stations



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TECHNICAL DATA

Fluid:	Compressed air, vacuum, inert gases
Pressure range:	Internal pilot: 20 to 120 PSI External pilot: Vacuum to 120 PSI
Lubrication:	Not required, if used select a medium aniline point lubricant (between 180F and 210F)
Filtration:	40μ
Temperature range:	0°F to 120°F (-18°C to +50°C)
Orifice:	8,5 mm
Flow:	1/4": Cv 1.7 – 3/8": Cv 2.0
Coil:	Epoxy encapsulated - Class A wires – 100% ED (specify mod. 0449)
Voltage range:	-15% to +10% of nominal voltage
Protection:	IP54 (GM pilot) – IP64 (DM pilot)
Power:	1,0 to 5,4W (Higher wattages available)

Options: BSPP threads

DIMENSIONS

Shown with BA connector

