

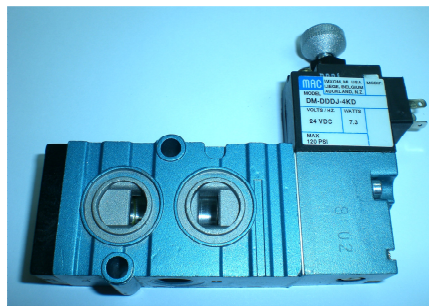
Direct solenoid and solenoid pilot operated valves

NAMUR Interface

Function	Port size	Flow [Max]	Individual mounting
5/2, 5/3	G 1/8" - G 1/4"	1000 NI/min	Inline – NAMUR Interface



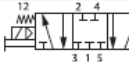

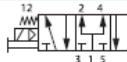
OPERATIONAL BENEFITS

1. The 4-way pilot develops maximum shifting forces 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. Wiping effect eliminates sticking.
7. NAMUR interface.

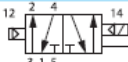
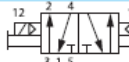


HOW TO ORDER

SINGLE PRESSURE MODELS

Port size	Pilot air	5/2 Single operator	5/2 Double operator	5/3 Closed centre	5/3 Open centre	5/3 Pressure centre
						
G1/8"	Internal	411A-C0A-DM-Dxxx-xxx 1080	421A-C0A-DM-Dxxx-xxx 1080	451A-C0A-DM-Dxxx-xxx 1080	461A-C0A-DM-Dxxx-xxx 1080	471A-C0A-DM-Dxxx-xxx 1080
G1/4"	Internal	411A-D0A-DM-Dxxx-xxx 1080	421A-D0A-DM-Dxxx-xxx 1080	451A-D0A-DM-Dxxx-xxx 1080	461A-D0A-DM-Dxxx-xxx 1080	471A-D0A-DM-Dxxx-xxx 1080
G1/8"	External	411A-C0B-DM-Dxxx-xxx 1080	421A-C0B-DM-Dxxx-xxx 1080	451A-C0B-DM-Dxxx-xxx 1080	461A-C0B-DM-Dxxx-xxx 1080	471A-C0B-DM-Dxxx-xxx 1080
G1/4"	External	411A-D0B-DM-Dxxx-xxx 1080	421A-D0B-DM-Dxxx-xxx 1080	451A-D0B-DM-Dxxx-xxx 1080	461A-D0B-DM-Dxxx-xxx 1080	471A-D0B-DM-Dxxx-xxx 1080

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

Port size	Pilot air	5/2 Single operator	5/2 Double operator
			
G1/8"	Internal	431A-C0A-DM-Dxxx-xxx 1080	441A-C0A-DM-Dxxx-xxx 1080
G1/4"	Internal	431A-D0A-DM-Dxxx-xxx 1080	441A-D0A-DM-Dxxx-xxx 1080
G1/8"	External	431A-C0B-DM-Dxxx-xxx 1080	441A-C0B-DM-Dxxx-xxx 1080
G1/4"	External	431A-D0B-DM-Dxxx-xxx 1080	441A-D0B-DM-Dxxx-xxx 1080

SOLENOID OPERATOR ➤

DM-D **xxx-xxx**

XX Voltage	X Wire length	X Manual operator	XX Electrical connection
JA 110 V~/50Hz	A 45 cm	1 Non-locking	KA Square connector
JB 220 V~/50Hz	B 60 cm	2 Locking	KD Square connector with light
JC 24 V~/50Hz	J Connector		JB Rectangular connector
FB 24 V~/1,8W			JD Rectangular connector with light
DA 24 V~/5,4W			BA Flying leads
DF 24 V~/12,7W			

Note: Exhaust port for the 400 series are always 1/4".

TECHNICAL DATA

Fluid :	Compressed air, vacuum, inert gases
Pressure range :	Internal pilot – 2 pos. : 1,3 to 8 bar (with memory spring: 2 to 8 bar) 3 pos.: 2,3 to 8 bar External pilot : vacuum to 8 bar
Pilot pressure :	2 position: 1,3 to 8 bar (with memory spring: 2 to 8 bar) 3 position: 2,3 to 8 bar
Lubrication :	Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)
Filtration :	40 µ
Temperature range :	-18°C to +50°C
Orifice :	6,2 mm
Flow (at 6 bar, $\Delta P=1\text{bar}$) :	1000 Nl/min (Cv 1.0)
Coil :	Epoxy encapsulated – class A wire – 100% ED (specify mod 0449)
Voltage range :	-15% to +10% of nominal voltage
Protection :	IP65 (DM pilot) (Electrical connection)
Power :	~Inrush : 10.9 VA Holding : 7.7 VA = 1.8 to 12.7 W
Response times :	24 V= / 5.4W Energize : 7.3 ms De-energize : 5.3 ms 110V~/50Hz Energize : 8-12 ms De-energize : 7-11 ms

DIMENSIONS

