

- MF-PoppetCore™

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ENGINEERED DESIGN

Body: Anodized aluminum

Seals: PU - NBR /TESCHNOPOLYMERIC END CAPS (code with final S) or anodized aluminium. -

Internal parts: aluminum - POM

Pilot: nickel plated brass

KEY FEATURES

5-way valve with mixed system: features a central mono-poppet for working port distribution, combined with a spool seal for exhaust control.

Optimized pilot and return system: a lip seal manages the amplified pilot, while a pneumatic spring ensures reliable return.

High performance design: delivers excellent overall performance despite a reduced flow path.

Fast switching and high load capacity: ensures quick response times and reliable operation under demanding conditions.

Long service life: minimal wear and extended durability thanks to optimized sealing solutions.

AVAILABLE SIZES

	1/8"	1/4"	1/2"
Nominal diameter	6	8	15
Compressed air flow rate	1100	1600	4500

MF-PoppetCore™

5 WAYS THREADED VALVES MIXED SYSTEM

- Range G1/8" ÷ G1/2"
- Patented conical shutter system in PU
- High flow rate
- High switching speed
- Available with external pilot SUPPLY
- Suitable for modular base assembly



TECHNICAL FEATURES

Fluid	Filtered compressed air, with or without lubrication		
Ambient Temp.	-20 ÷ +50°C		
Fluid Temp.	Max +50°C		
Pilot Supply	Internal or External		
Pressure	Max 10 bar		
Function	5/2 one stable position - 5/2 two stable positions		
Control	Pneumatic Indirect Electric		
Return	Mechanical and pneumatic spring or indirect electric control		
Manual control	Screw 2 positions		
Connection	G 1/8"	G 1/4"	G 1/2"
Shape			
Ø electric operator (mm)	10		13
Absorption	3,5W (DC) - 5VA (AC) 2,5W (DC) - 3,3VA (AC)		11W(DC)-10VA(AC)
Voltage	12V DC – 24V DC – 24V AC – 110V AC – 220V AC		
Mounting position	Any		
Materials	Body: aluminum / Seals: PU - NBR / Internal parts: aluminum -		

PRODUCT DATA & CODES | INTERNAL PILOT SUPPLY

	Connection	Control	Actuation	Ø (mm)	Flow rate (NL/min)	Working pressure from/to (bar)	Time Exc.12/ Dis.10 (ms)	Electric Pilot Ø (mm)	Weight (gr)	Code
	G 1/8"	electric	Sol/Spring	6	1100	2,5 --- 10	18/20	10	180	-MF-M7500S
	G 1/4"	electric	Sol/Spring	8	1600	2,5 --- 10	22/22	10	285	-MF-M8500S
	G 1/2"	electric	Sol/Spring	15	4500	2,5--- 10	23/30	13	935	-MF-M9500
	G 1/8"	electric	Sol/Sol	6	1100	2,5 --- 10	14/14	10	230	-MF-M7520S
	G 1/4"	electric	Sol/Sol	8	1600	2,5 --- 10	14/14	10	340	-MF-M8520S
	G 1/2"	electric	Sol/Sol	15	4500	2,5 --- 10	16/16	13	1100	-MF-M9520
	G 1/8"	pneumatic	Air/Spring	6	1100	2,5 --- 10	08/10	/	145	-MF-M7100S
	G 1/4"	pneumatic	Air/Spring	8	1600	2,5 --- 10	10/10	/	250	-MF-M8100S
	G 1/2"	pneumatic	Air/Spring	15	4500	2,5 --- 10	10/10	/	800	-MF-M9100
	G 1/8"	pneumatic	Air/Air	6	1100	2,5 --- 10	05/10	/	160	-MF-M7120S
	G 1/4"	pneumatic	Air/Air	8	1600	2,5 --- 10	06/10	/	275	-MF-M8120S
	G 1/2"	pneumatic	Air/Air	15	4500	2,5 --- 10	08/10	/	800	-MF-M9120

PRODUCT DATA & CODES | EXTERNAL PILOT SUPPLY

	Connection	Control	Actuation	Ø (mm)	Flow rate (NL/min)	Working pressure P1 from/to (bar)	Control pressure from/to (bar)	Time Exc.12/ Dis.10 (ms)	Electric Pilot Ø (mm)	Weight (gr)	Code
	G 1/8"	electric	Sol/Spring	5,5	1100	0 --- 10	≥P1---10	18/20	10	195	-MF-M7740S
	G 1/4"	electric	Sol/Spring	8	1600	0 --- 10	≥P1---10	20/20	10	300	-MF-M8740S
	G 1/2"	electric	Sol/Spring	15	4500	0 --- 10	≥P1---10	20/20	13	950	-MF-M9740
	G 1/8"	electric	Sol/Sol	5,5	1100	0 --- 10	≥P1---10	15/17	10	180	-MF-M7760S
	G 1/4"	electric	Sol/Sol	8	1600	0 --- 10	≥P1---10	16/18	10	365	-MF-M8760S
	G 1/2"	electric	Sol/Sol	15	4500	0 --- 10	≥P1---10	18/20	13	1130	-MF-M9760

ACCESSORIES & SPARE PARTS

> Function 100% EDP > Voltage ± 10% > Frequency ± 5%

COILS

	Coil width (mm)	Operator Ø (mm)	Voltage	Power	Code
	22	10	12 VDC	3,5 W	-MF-0050
	22	10	24 VDC	3,5 W	-MF-0051
	22	10	24 VAC	5 VA	-MF-0106
	22	10	110 VAC	5 VA	-MF-0108
	22	10	220 VAC	5 VA	-MF-0124
	30	10	12 VDC	2,5 W	-MF-0301
	30	10	24 VDC	2,5 W	-MF-0302
	30	10	24 VAC	3,3 VA	-MF-0307
	30	10	110 VAC	3,3 VA	-MF-0309
	30	10	220 VAC	3,3 VA	-MF-0310
	30	13	12 VDC	11 W	-MF-0501
	30	13	24 VDC	11 W	-MF-0502
	30	13	24 VAC	10 VA	-MF-0507
	30	13	110 VAC	10 VA	-MF-0509
	30	13	220 VAC	10 VA	-MF-0510

> IP65 > PG9

CONNECTORS

	Coil width (mm)	Voltage	Led-Vdr	Code
<p>DIN 43650-B</p>	22	24V - 48V - 110 V- 220 V	-	-AM-5110
	22	24 volt	✓	-AM-5112L
	22	110 volt	✓	-AM-5113L
	22	220 volt	✓	-AM-5114L
<p>DIN 43650-A</p>	30	24V - 48V - 110 V- 220 V	-	-AM-5111
	30	24 volt	✓	-AM-5115L
	30	110 volt	✓	-AM-5116L
	30	220 volt	✓	-AM-5117L

MANIFOLDS

Size	Description	Code
G 1/8"	Inlet plate	-MF-S7800
G 1/8"	2 positions sub-base	-MF-S7902
G 1/8"	3 positions sub-base	-MF-S7903
G 1/4"	Inlet plate	-MF-S8600
G 1/4"	2 positions sub-base	-MF-S8602
G 1/4"	3 positions sub-base	-MF-S8603