

# MF-SpoolCore™ 3&5 WAYS THREADED VALVES SPOOL BODY

## PRODUCT RANGE OVERVIEW

- MF-SpoolCore™ :
- MF-SpoolCore™ SENSOR POSITION SENSOR SERIES
- 

## 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 mixed system design:** features a central mono-poppet for precise distribution of working ports.

**Controlled exhaust and pilot:** spool seal manages the exhaust, while a lip seal handles the amplified pilot and pneumatic spring return.

**High overall performance:** optimized flow path delivers excellent performance even with compact design.

**Fast switching and high load capacity:** ensures rapid response and reliable operation under demanding conditions.

**Extended service life:** minimal wear on components guarantees long-term durability and maintenance-free operation.

## AVAILABLE SIZES

	1/8"	1/4"
Nominal diameter	6,5	8
Compressed air flow rate	850	1400

# MF-SpoolCore™

## 3&5 WAYS THREADED VALVES SPOOL BODY

- Range G1/8" ÷ G1/4"
- Suitable for use with vacuum
- Available with external pilot
- Available with pneumatic and indirect electric signal
- 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/external		
Function	3/2 monostable and bistable - 5/2 monostable and bistable 5/3 closed - open centers - 5/3 pressure centers		
Control	Pneumatic   Indirect Electric		
Return	Mechanical / pneumatic spring / indirect electric control		
Manual control	Screw 2 positions		
Working pressure	Max 10 bar		
Connection	G 1/8"	G 1/4"	
Shape			
Ø electric operator (mm)	10		
Absorption	3,5W (DC) - 5VA (AC) 2,5W (DC) - 3,3VA (AC)		
Voltage	12V DC - 24V DC - 24V AC - 110V AC - 220V AC		
Mounting position	Any		
Materials	Body: aluminum / Seals: PU - NBR / Internal parts: aluminum - PO		

PRODUCT DATA & CODES | ELECTRIC CONTROL

	Connection	Function	Actuation	Pilot Supply	Ø (mm)	Flow rate	Working pressure (P1) from/to (bar)	Control pressure from/to (bar)	Time Exc.12/ Dis.10 (ms)	Electric Pilot Ø	Weight (gr)	Code
	G 1/8"	3/2 NC	Sol/AirSpring	Internal	6,5	850	2,5 --- 10	>P1---10	22/20	10	160	-MF-S0300S
	G 1/4"	3/2 NC	Sol/AirSpring	Internal	8,0	1400	2,5 --- 10	>P1---10	25/28	10	240	-MF-S9300S
	G 1/8"	3/2 NO	Sol/AirSpring	Internal	6,5	850	2,5 --- 10	>P1---10	22/20	10	160	-MF-S0301S
	G 1/4"	3/2 NO	Sol/AirSpring	Internal	8,0	1400	2,5 --- 10	>P1---10	25/28	10	240	-MF-S9301S
	G 1/8"	3/2 NC	Sol/Spring	Internal	6,5	850	2,5 --- 10	>P1---10	20/24	10	180	-MF-S0302AS
	G 1/4"	3/2 NC	Sol/Spring	Internal	8,0	1400	2,5 --- 10	>P1---10	22/35	10	245	-MF-S9302AS
	G 1/8"	3/2	Sol/Sol	Internal	6,5	850	2,5 --- 10	>P1---10	16/16	10	200	-MF-S0320S
	G 1/4"	3/2	Sol/Sol	Internal	8,0	1400	2,5 --- 10	>P1---10	18/18	10	280	-MF-S9320S
	G 1/8"	3/2 NC	Sol/Spring	External	6,5	850	-1,0 --- 10	3,0 ---10	16/16	10	175	-MF-S0342AS
	G 1/4"	3/2 NC	Sol/Spring	External	8,0	1400	-1,0 --- 10	3,0 ---10	18/18	10	255	-MF-S9342AS
	G 1/8"	3/2	Sol/Sol	External	6,5	850	-1,0 --- 10	3,0 ---10	22/20	10	230	-MF-S0360S
	G 1/4"	3/2	Sol/Sol	External	8,0	1400	-1,0 --- 10	3,0 ---10	24/28	10	310	-MF-S9360S
	G 1/8"	5/2	Sol/AirSpring	Internal	6,5	850	2,5 --- 10	>P1---10	23/20	10	210	-MF-S0600S
	G 1/4"	5/2	Sol/AirSpring	Internal	8,0	1400	2,5 --- 10	>P1---10	24/32	10	295	-MF-S9600S
	G 1/8"	5/2	Sol/Spring	Internal	6,5	850	2,5 --- 10	>P1---10	20/25	10	190	-MF-S0602AS
	G 1/4"	5/2	Sol/Spring	Internal	8,0	1400	2,5 --- 10	>P1---10	24/43	10	295	-MF-S9602AS
	G 1/8"	5/2	Sol/Sol	Internal	6,5	850	2,5 --- 10	>P1---10	19/19	10	240	-MF-S0620S
	G 1/4"	5/2	Sol/Sol	Internal	8,0	1400	2,5 --- 10	>P1---10	21/21	10	345	-MF-S9620S
	G 1/8"	5/2	Sol/AirSpring	External	6,5	850	-1,0 --- 10	3,0 ---10	22/20	10	225	-MF-S0640S
	G 1/4"	5/2	Sol/AirSpring	External	8,0	1400	-1,0 --- 10	3,0 ---10	24/32	10	310	-MF-S9640S
	G 1/8"	5/2	Sol/Spring	External	6,5	850	-1,0 --- 10	3,0 ---10	22/35	10	230	-MF-S0642AS
	G 1/4"	5/2	Sol/Spring	External	8,0	1400	-1,0 --- 10	3,0 ---10	24/43	10	315	-MF-S9642AS
	G 1/8"	5/3CC	Sol/Sol	Internal	6,5	850	2,5 --- 10	>P1---10	21/28	10	240	-MF-S0680S
	G 1/4"	5/3CC	Sol/Sol	Internal	8,0	1400	2,5 --- 10	>P1---10	25/39	10	350	-MF-S9680S
	G 1/8"	5/3OC	Sol/Sol	Internal	6,5	850	2,5 --- 10	>P1---10	21/28	10	240	-MF-S0685S
	G 1/4"	5/3OC	Sol/Sol	Internal	8,0	1400	2,5 --- 10	>P1---10	25/39	10	350	-MF-S9685S
	G 1/8"	5/3PC	Sol/Sol	Internal	6,5	850	2,5 --- 10	>P1---10	21/28	10	160	-MF-S0690S
	G 1/4"	5/3PC	Sol/Sol	Internal	8,0	1400	2,5 --- 10	>P1---10	25/39	10	240	-MF-S9690S

CC : Closed centers / OC : Open Centers / PC: Pressurized Centers

PRODUCT DATA & CODES | PNEUMATIC CONTROL

	Connection	Function	Actuation	Ø (mm)	Flow rate (NL/min)	Working pressure (P1) from/to (bar)	Control pressure from/to (bar)	Time Exc.14/ Dis.12 (ms)	Weight (gr)	Code
	G 1/8"	3/2	Air/AirSpring	6,5	850	2,5 --- 10	>P1---10	12/14	130	-MF-S0200S
	G 1/4"	3/2	Air/AirSpring	8,0	1400	2,5 --- 10	>P1---10	14/16	205	-MF-S9200S
	G 1/8"	3/2	Air/Spring	6,5	850	0,0 --- 10	>P1---10	10/17	135	-MF-S0200AS
	G 1/4"	3/2	Air/Spring	8,0	1400	0,0 --- 10	>P1---10	11/19	210	-MF-S9200AS
	G 1/8"	3/2	Air/Air	6,5	850	0 --- 10	>P1---10	7/7	140	-MF-S0220S
	G 1/4"	3/2	Air/Air	8,0	1400	0 --- 10	>P1---10	8/8	220	-MF-S9220S
	G 1/8"	5/2	Air/AirSpring	6,5	850	2,5 --- 10	>P1---10	11/15	155	-MF-S0500S
	G 1/4"	5/2	Air/AirSpring	8,0	1400	2,5 --- 10	>P1---10	14/16	255	-MF-S9500S
	G 1/8"	5/2	Air/Spring	6,5	850	0,0 --- 10	>P1---10	12/18	160	-MF-S0500AS
	G 1/4"	5/2	Air/Spring	8,0	1400	0,0 --- 10	>P1---10	13/20	260	-MF-S9500AS
	G 1/8"	5/2	Air/Air	6,5	850	0,0 --- 10	>P1---10	8/8	175	-MF-S0520S
	G 1/4"	5/2	Air/Air	8,0	1400	0 --- 10	>P1---10	10/10	345	-MF-S9520S
	G 1/8"	5/3 CC	Air/Air	6,5	850	0 --- 10	>P1---10	9/12	180	-MF-S0580S
	G 1/4"	5/3 CC	Air/Air	8,0	1400	0 --- 10	>P1---10	11/13	290	-MF-S9580S
	G 1/8"	5/3 PC	Air/Air	6,5	850	0 --- 10	>P1---10	9/12	180	-MF-S0585S
	G 1/4"	5/3 PC	Air/Air	8,0	1400	0 --- 10	>P1---10	11/13	290	-MF-S9585S
	G 1/8"	5/3 PC	Air/Air	6,5	850	0 --- 10	>P1---10	9/12	180	-MF-S0590S
	G 1/4"	5/3 PC	Air/Air	8,0	1400	0 --- 10	>P1---10	11/13	290	-MF-S9590S

CC : Closed centers / OC : Open Centers / PC: Pressurized Centers

## 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

### CONNECTORS

► IP65 ► PG9

	Coil width (mm)	Voltage	Led-Vdr	Code
<b>DIN 43650-B</b> 	22	24V - 48V - 110 V- 220 V	-	-AM-5110
	22	24 volt	✓	-AM-5112L
	22	110 volt	✓	-AM-5113L
	22	220 volt	✓	-AM-5114L
<b>DIN 43650-A</b> 	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-S7702
G 1/8"	3 positions sub-base	-MF-S7703
G 1/4"	Inlet plate	-MF-S8600
G 1/4"	2 positions sub-base	-MF-S8702
G 1/4"	3 positions sub-base	-MF-S8703