



Characteristics

At a glance

- Very compact and extremely lightweight series for use close to the process directly in the machine.
- Grid dimension: 40 mm; 62 mm
- With solenoid coil, without plug socket
- Supply voltage: 24 VDC

Product segmentation



Festo Core Range

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With the Festo Core Range, we have selected the most important products and functions from our broad product catalogue, and added the quickest delivery. the Core Range offers you the best value with the expected high Festo quality.

- Quickest delivery, worldwide wherever, whenever
- Expected high Festo quality
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Function



- Solenoid actuated on/off valve for pressurising and exhausting pneumatic systems
- Ducted exhaust air is possible via threaded connection at port 3 with silencer
- Detenting and non-detenting manual override

Pneumatic connection

Individual fittings that are fastened via a female thread

Special material p	properties
[F1A]	Recommended for production plants for manufacturing lithium-ion batteries, F1A
11 -	, zinc or nickel as the main component are excluded from use. el in steels, chemically nickel-plated surfaces, circuit boards,

cables, electrical plug connectors and coils

Version

Basic component with sturdy and lightweight polymer housing. Fully compatible with the MS series.

Type code

001	Series						
MS	MS series						
002	Size						
4	Grid dimension 40 mm						
6	Grid dimension 62 mm						
003	Function						
EE	On/off valve, electric						
004	Pneumatic connection						
1/4	Female thread G1/4						
1/2	Female thread G1/2						

005	Supply voltage	
V24	24 V DC (connection pattern to EN 175301)	
006	Special material properties	
	None	
F1A	Recommended for production plants for manufacturing lithi- um-ion batteries, F1A	
007	Version	
В	Second generation	

Datasheet

General technical data							
Size	4	6					
Pneumatic connection, port 1	G1/4	G1/2					
Pneumatic connection, port 2	G1/4	G1/2					
Pneumatic connection, port 3	G1/4	G1/2					
Design	Poppet valve, electrically actuated						
lap	Underlap						
Type of mounting	Via wall/surface bracket						
Mounting position	optional						
Type of actuation	Electric						
Pressure gauge (ANALOG) or	With pressure sensor with LCD display						
Pressure display (DIGITAL)							
Valve function	3/2-way, closed, monostable						
Exhaust-air function	– Without flow control option						
Manual override	Detenting, Non-detenting						
Type of reset	Mechanical spring						
Switching position indicator	With accessories						
Signal status display	With accessories						
Type of piloting	Pilot actuated						
Pilot air supply	Internal	Internal					
Selection of additional func- tions	With silencer						

Electrical data					
Characteristic coil data	24 V DC: 2.3 W				
Permissible voltage fluctua-	+/- 10%				
tions					
Switch-on time	29 ms				
Electrical connection	Type C				
	To EN 175301-803				
Degree of protection	IP65				

Flow characteristics						
Size	4	6				
Pneumatic connection, port 1	G1/4	G1/2				
Standard nominal flow rate	2,000 l/min	5,000 l/min				
(standardised to DIN 1343) ¹⁾						
Standard nominal flow rate, 1,600 l/min		4,000 l/min				
exhaust 0.6->0 MPa (6->0 bar,						
87->0 psi)						
Cvalue	8.36 l/sbar	21.33 l/sbar				
b value	0.49	0.52				

1) Measured at p1 = 6 bar and p2 = 5 bar, $\Delta p = 1$ bar.

Operating and environmental conditions

1 4	
Operating pressure	0.3 0.7 MPa
Operating pressure	3 7 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot	Lubricated operation possible (in which case lubricated operation will always be required)
medium	
Ambient temperature	-5 50°C
Media temperature	-5 50°C
Corrosion resistance class CRC ¹⁾	1 - Low corrosion stress

1) More information visit www.festo.com/x/topic/kbk

Datasheet

Materials					
Material housing	PA-reinforced				
Material seals HNBR					
	NBR				
Note on materials	RoHS-compliant				
LABS (PWIS) conformity	VDMA24364-B1/B2-L				
Cleanroom class	Class 7 according to ISO 14644-1				

Additional material specifications – products for battery production (MSF1A-B)					
Suitability for the production	Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, cir-				
of Li-ion batteries	cuit boards, cables, electrical plug connectors and coils				

Manual override



[1] Detenting and non-detenting manual override

Dimensions



Dimensions



	D2 Ø	L4
U-1/4	20	55
U-1/2	28	108

Dimensions



	B1	B2	B3	Β4	B5	B6	D1 Ø	L1	L2	L3
MS4-WPE-B	55,2	40,2	5	44,4	83,3	2	5,7	106	46,6	46,6
MS6-WPE-B	79	62	4,3	53,9	114,9	2	6,5	158	71	71

Ordering data

Ordering data

Size	Pneumatic connection, port 1	Product weight	Part no.	Туре
4	G1/4	194 g	★ 8091771	MS4-EE-1/4-V24-B
6	61/2	490 g	* 8091578	MS6-EE-1/2-V24-B

Ordering data – Products for battery production

	Size	Pneumatic connection, port 1	Product weight	Part no.	Туре
Jak	4	G1/4	194 g	8176512	MS4-EE-1/4-V24-F1A-B
	6	61/2	490 g	8176514	MS6-EE-1/2-V24-F1A-B

Peripherals

Peripherals overview



Acces	sories		→ Link
	Type/order code	Description	
[1]	On/off valve MS-EE-B		S ms-ee-b
[2]	Illuminating seal MEB-LD		11
[3]	Plug socket with cable KMEB		12
[4]	Plug socket MSSD-EB	For on/off valve MSV24P and MSV24EX2, the plug socket is included in the scope of delivery.	11
[5]	Mounting plate MSAEND	Module connector MS4/6-MV [2] or mounting bracket MS4-WP, WPB, WPE, WPM [3] is required for mounting.	11
[6]	Wall mounting kit MSWPE-B	Without illustration	11
[7]	Module connector MSMV1		11
[8]	Silencer U		11

Accessories

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Module connector MSMV1								
	Size Suitability for the pro		Product weight	Part no.	Туре			
		duction of Li-ion batter-						
		ies						
\bigcirc	4		13 g	★ 8119201	MS4-MV1			
		F1a	36 g	8176695	MS4-MV1-F1A			
	6		33 g	★ 8119204	MS6-MV1			
		F1a	54 g	8176697	MS6-MV1-F1A			

Wall mounting kit MS...-WPE-B

	Size	Product weight	Part no.	Туре
a	4	30 g	★ 8118600	MS4-WPE-B
R	6	58 g	★ 8118599	MS6-WPE-B
FOU				

Mounting plate MS...-AEND

Size	Product weight	Part no.	Туре
4	4 g	542966	MS4-AEND
6	11.1 g	535408	MS6-AEND1

Plug socket MSSD-EB

Electrical connection	Type of mounting	Product weight	Part no.	Туре
3-pin, Socket, Angled socket, Type C, To DIN EN 175301-803, To DIN EN 61984, Square de- sign MSEB, Square de- sign MSN2	On solenoid valve via M2.5 central screw	11 g	★ 151687	MSSD-EB
4-pin, Socket, Type C		17 g	192745	MSSD-EB-S-M14

Illuminating seal MEB-LD

	Switching position indi- cator	Product weight	Part no.	Туре
12 24 V	LED	0.6 g	151717	MEB-LD-12-24DC

Silencer U						
	Pneumatic con- nection	Flow rate to at- mosphere	Sound pressure level	Product weight	Part no.	Туре
	G1/4	3,300 l/min	76 dB(A)	7.7 g	★ 2316	U-1/4

Accessories

Silencer U							
	Pneumatic con- nection	Flow rate to at- mosphere	Sound pressure level	Product weight	Part no.	Туре	
	G1/2	10,300 l/min	82 dB(A)	58.2 g	★ 2310	U-1/2	

Plug socket with cable KMEB

Plug socket with cable KMEB	Nominal operat- ing voltage DC	Electrical connec- tion 2, number of connections/ cores	•	Cable length	Part no.	Туре
Ĥ	24 V	2		2.5 m	547270	KMEB-3-24-2.5
				5 m	547271	KMEB-3-24-5
			Yellow LED	2.5 m	547268	KMEB-3-24-2.5-LED
				5 m	547269	KMEB-3-24-5-LED
		3		2.5 m	★ 151688	KMEB-1-24-2.5-LED
				5 m	151689	KMEB-1-24-5-LED
\bigcirc				10 m	193457	KMEB-1-24-10-LED
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