

# On/off valve MS-EE-B

**FESTO**



## 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



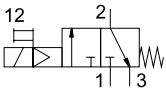
#### Festo Core Range

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- Quickest delivery, worldwide – wherever, whenever
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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 properties

[F1A] Recommended for production facilities for the manufacture of lithium-ion batteries

Metals with copper, zinc or nickel as the main component are excluded from use. Exceptions are nickel in steels, chemically nickel-plated surfaces, circuit boards, cables, electrical plug connectors and coils

### Version

[B] Second generation

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

## Type code

001	Series
<b>MS</b>	MS series

002	Size
<b>4</b>	Grid dimension 40 mm
<b>6</b>	Grid dimension 62 mm

003	Function
<b>EE</b>	On/off valve, electric

004	Pneumatic connection
<b>1/4</b>	Female thread G1/4
<b>1/2</b>	Female thread G1/2

005	Supply voltage
<b>V24</b>	24 V DC (connection pattern to EN 175301)

006	Special material properties
<b>F1A</b>	Recommended for production facilities for the manufacture of lithium-ion batteries

007	Version
<b>B</b>	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	
Type of mounting	Via wall/surface bracket	
Mounting position	Vertical +/-5°	
Valve function	3/2-way, closed, monostable	
Manual override	Non-detenting, Detenting	
Type of reset	Mechanical spring	
Type of piloting	Pilot actuated	
Pilot air supply	Internal	

## Electrical data

Characteristic coil data	24 V DC: 2.3 W	
Permissible voltage fluctuations	+/- 10%	
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 <sup>1)</sup>	2,000 l/min	5,000 l/min
Standard nominal flow rate, exhaust 0.6->0 MPa (6->0 bar, 87->0 psi)	1,600	-
C value	8.36 l/sbar	-
b value	0.49	-

1) Measured at p1 = 6 bar and p2 = 5 bar, Δp = 1 bar.

## Operating and environmental conditions

Operating pressure	0.3 ... 0.7 MPa	
Operating pressure	3 ... 7 bar	
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]	
Ambient temperature	-5 ... 50°C	
Media temperature	-5 ... 50°C	
Corrosion resistance class CRC <sup>1)</sup>	1 - Low corrosion stress	

1) Corrosion resistance class CRC 1 to Festo standard FN 940070. Low corrosion stress. Dry indoor application or transport and storage protection. Also applies to parts behind covers, in the non-visible interior area, or parts which are covered in the application (e.g. drive trunnions).

## Materials

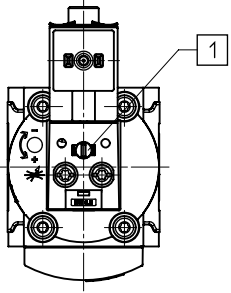
Material housing	PA-reinforced
Material seals	NBR HNBR
Note on materials	RoHS-compliant
LABS (PWS) conformity	VDMA24364-B1/B2-L

## Additional operating and environmental conditions – Products for battery production (MS...-F1A-B)

Suitability for the production of Li-ion batteries	Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils
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# Datasheet

## Manual override



[1] Detenting and non-detenting manual override







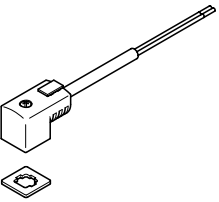








## Accessories

Plug socket with cable KMEB						
	Nominal operating voltage DC	Electrical connection 2, number of connections/cores	Signal status display	Cable length	Part no.	Type
	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	
			10 m	193457	KMEB-1-24-10-LED	