

On/off valves MS-EDE-B

FESTO



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for the
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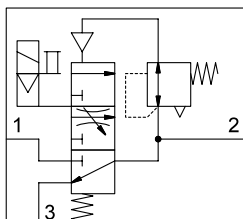
Key features

At a glance

Very compact and extremely lightweight series for use close to the process directly in the machine.

- Grid dimension 40 mm (size 4) or 62 mm (size 6)
- With solenoid coil, without plug socket
- Supply voltage: 24 V DC

Function



- Solenoid actuated soft-start valve for slowly pressurising and exhausting pneumatic systems
- The drives move slowly and safely into the initial position
- Sudden and erratic movements are avoided
- Adjustable switching time delay
- Detenting and non-detenting manual override

Pneumatic connection

Individual fittings which are mounted via a female thread.

Version

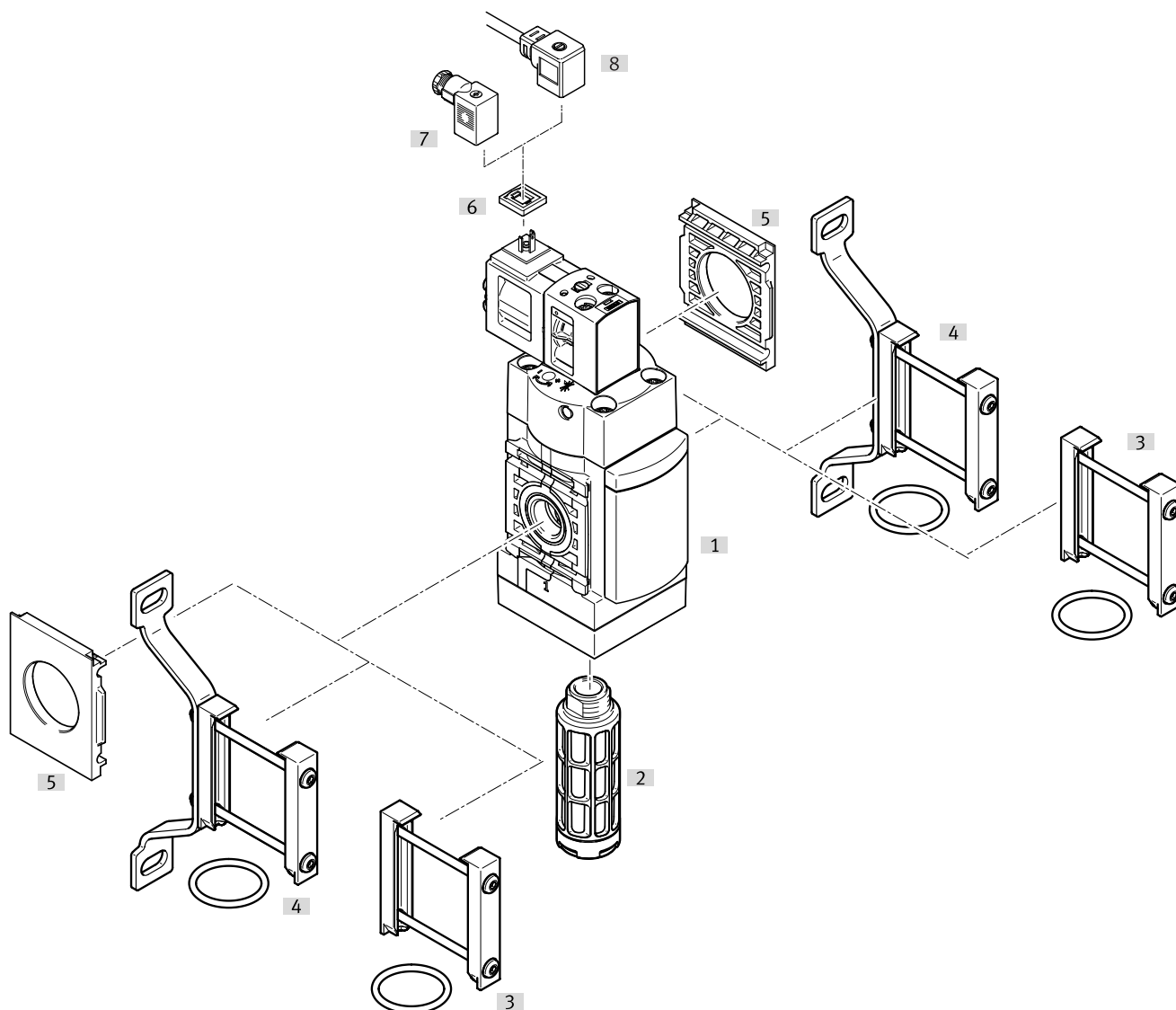
[B] Basic

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

Type codes

001	Series	
MS	MS series	
002	Size	
4	Grid dimension 40 mm	
6	Grid dimension 62 mm	
003	Function	
EDE	Soft-start valve, electrically actuated	
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	
F1A	Recommended for production facilities for the manufacture of lithium-ion batteries	
007	Version	
B	Basic	

Peripherals overview



Mounting attachments and accessories			→ Page/Internet
[1]	On/off valve MS4/6-EDE-...-B		5
[2]	Silencer U		9
[3]	Module connector MS4/6-MV1	For connecting the modules	9
[4]	Wall mounting kit MS4/6-WPE-B	For connecting the modules for wall mounting	9
[5]	Mounting plate AEND ¹⁾		9
[6]	Illuminating seal MEB-LD		9
[7]	Plug socket MSSD-EB		9
[8]	Plug socket with cable KMEB		9

1) Only necessary for individual mounting. Mounting bracket MS4/6-WPE-B [4] is required for mounting.

Datasheet

General technical data		
Size	4	6
Pneumatic connection 1	G1/4	G1/2
Pneumatic connection 2	G1/4	G1/2
Pneumatic connection 3	G1/4	G1/2
Design	Poppet valve, solenoid actuated	
Type of mounting	Via wall/surface bracket	
Mounting position	Vertical +/-5°	
Valve function	3/2-way, closed, single solenoid	
Exhaust air function	Cannot be throttled	
Manual override	Non-detenting and detenting	
Actuation type	Electrical	
Reset method	Mechanical spring	
Type of control	Piloted	
Pilot air supply	Internal	
Signal status indication	With accessories	

Electrical data	
Characteristic coil data	24 V DC: 2.3 W
Permissible voltage fluctuation	+/- 10 %
Electrical connection	Type C, to EN 175301-803
Degree of protection	IP65
Switch-on time	31 ms

Characteristic flow rate values		
Size	4	6
Standard nominal flow rate ¹⁾	2000 l/min	5000 l/min
Standard flow rate, exhaust ²⁾	1600 l/min	4000 l/min
C value	8.52 l/sbar	23.9 l/sbar
b value	0.45	0.54

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

²⁾ Measured at p₁ = 6 bar and p₂ = 0 bar, Δp = 6 bar.

Operating and environmental conditions	
Operating pressure (MPa)	0.3 ... 0.7 MPa
Operating pressure (bar)	3 ... 7 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Storage temperature	-10 ... 60°C
Ambient temperature	-5 ... 50°C
Temperature of medium	-5 ... 50°C
Corrosion resistance class CRC ¹⁾	1 - Low corrosion stress

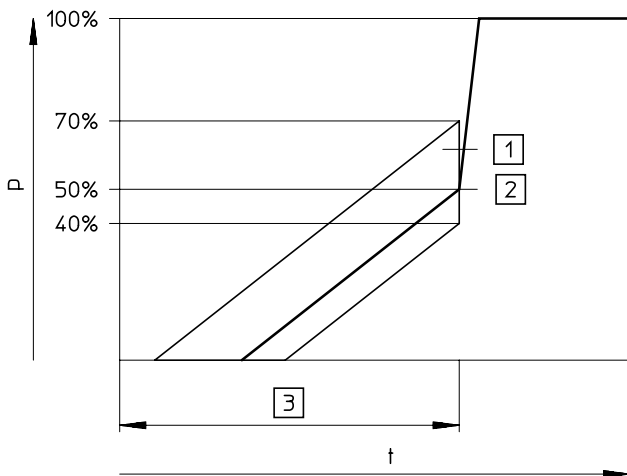
¹⁾ More information www.festo.com/x/topic/crc

Weight		
Size	4	6
Product weight	196 g	517 g

Materials	
Housing material	Reinforced PA
Sealing material	HNBR, NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

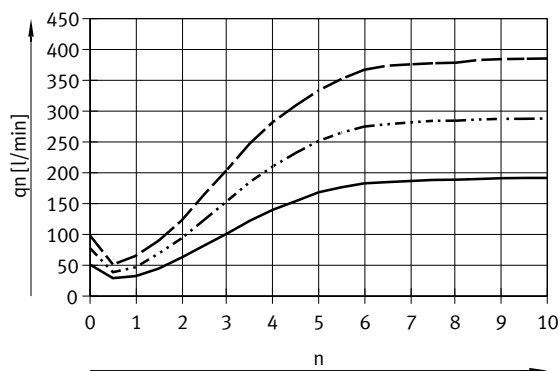
Datasheet

Switching pressure

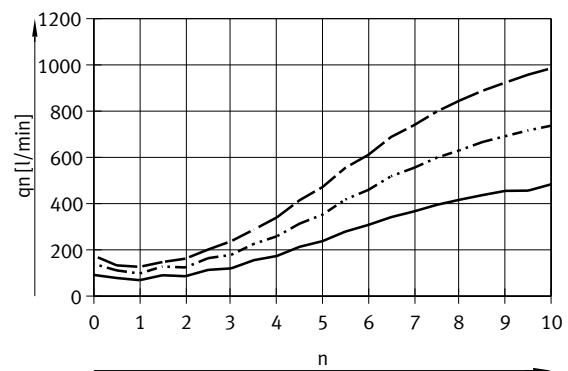
Pressure p as a function of time t 

- [1] Tolerance range
- [2] Switching point
- [3] Filling time is adjustable via a restrictor

Note
The +20%/–10% switching pressure tolerance refers to the operating pressure p_1 .
Example: a switching pressure from 1.6 bar to 2.8 bar is permissible at an operating pressure of 4 bar.

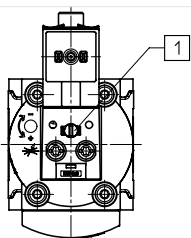
Flow rate q_n as a function of flow control screw revolutions n Characteristic flow-control curves MS4-EDE-B¹⁾

- $p_1 = 3$ bar
- $p_1 = 5$ bar
- - - $p_1 = 7$ bar

1) Measured: P_1 against ambient pressureCharacteristic flow-control curves MS6-EDE-B¹⁾

- $p_1 = 3$ bar
- $p_1 = 5$ bar
- - - $p_1 = 7$ bar

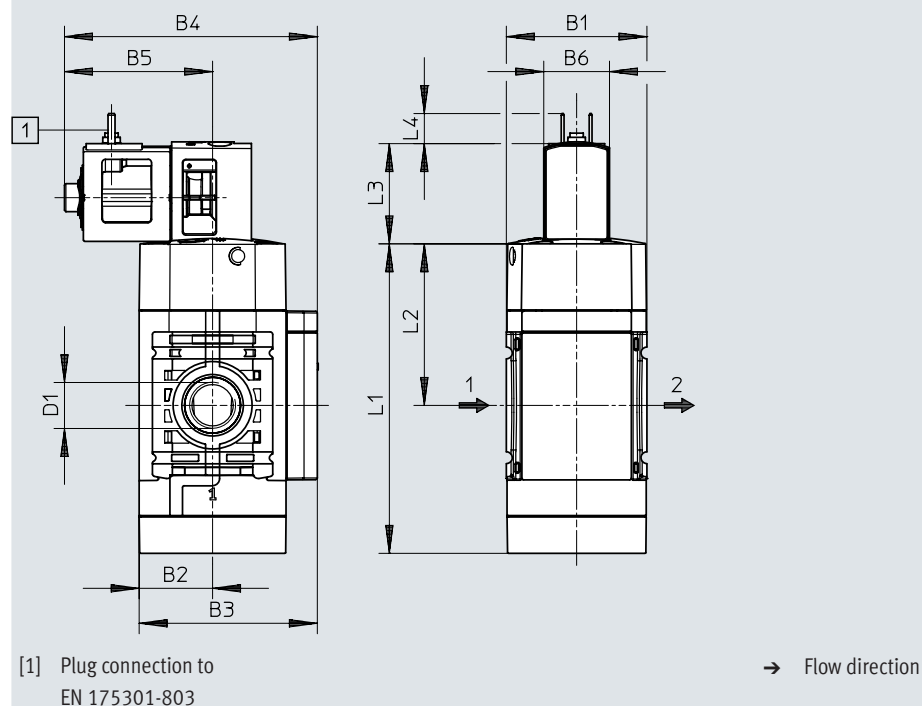
Manual override



- [1] Detenting and non-detenting manual override

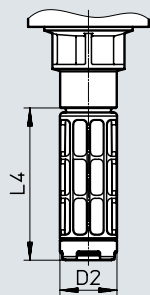
Datasheet

Dimensions – Basic version

Download CAD data → www.festo.com

Type	B1	B2	B3	B4	B5	B6	D1	L1	L2	L3	L4
MS4-EE-...-B	40.2	21	50.9	72.3	42.4	18.8	G1/4	88.5	46.2	28.7	8.6
MS6-EE-...-B	62	31	76	87.7	42.7	18.8	G1/2	140	75.5	28.2	8.6

Dimensions – Silencer (accessories)

Download CAD data → www.festo.com

Type	D2 Ø	L4
U-1/4	20	55
U-1/2	28	108

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Ordering data

Pneumatic connection 1	Part no.	Type
G1/4	★ 8080815	MS4-EDE-1/4-V24-B
G1/2	★ 8080855	MS6-EDE-1/2-V24-B

Accessories

Wall mounting kit
MS...-WPE-B

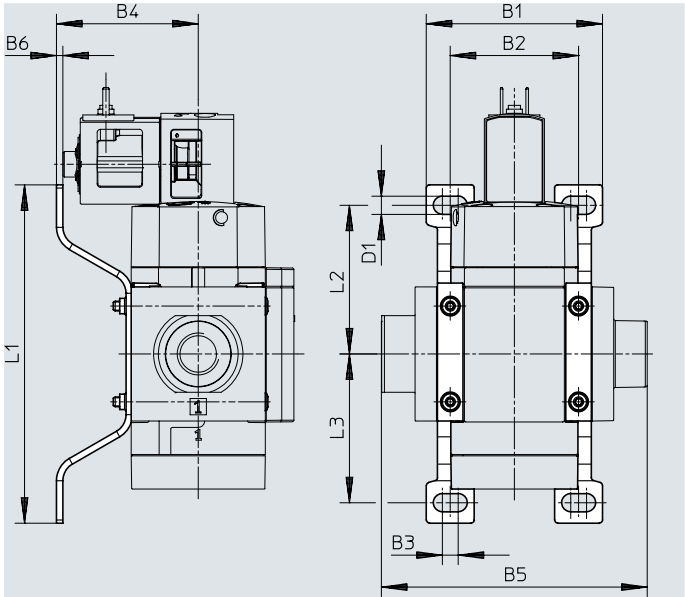
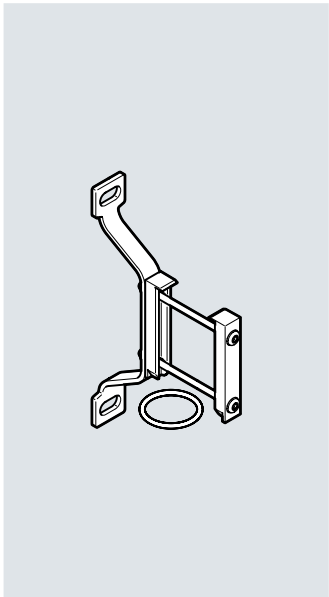
For size 4

- For wall mounting

Materials:

Steel

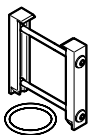
RoHS-compliant

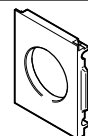


Dimensions and ordering data													
Size	B1	B2	B3	B4	B5	B6	D1 Ø	L1	L2	L3	Weight [g]	Part no.	Type
4	55.2	40.2	5	44.4	83.3	2	5.7	106	46.6	46.6	30	8118600	MS4-WPE-B
6	79	62	4.3	53.9	114.9	2	6.5	158	71	71	58	8118599	MS6-WPE-B

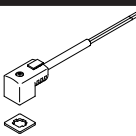
Accessories

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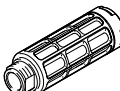
Ordering data – Module connector MS...-MV1				
	Size	Description	Part no.	Type
	4	For connecting the modules for wall mounting	8119201	MS4-MV1
	6		8119204	MS6-MV1

Ordering data – Mounting plate MS...-AEND				
	Size	Description	Part no.	Type
	4	In combination with mounting bracket MS...-WPE-B for wall mounting an individual component	542966	MS4-AEND
	6		535408	MS6-AEND1

Ordering data – Plug socket MSSD				
	Electrical connection	Cable connection	Part no.	Type
	3-pin	Screw terminal	★ 151687	MSSD-EB
	4-pin	Insulation displacement connector	192745	MSSD-EB-S-M14

Ordering data – Plug socket with cable KMEB						
	Operating voltage	Electrical connection	Switching status indication	Cable length [m]	Part no.	Type
	24 V DC	2-pin	LED	2.5	547268	KMEB-3-24-2.5-LED
				5	547269	KMEB-3-24-5-LED
			–	2.5	547270	KMEB-3-24-2.5
				5	547271	KMEB-3-24-5
		3-pin	LED	2.5	★ 151688	KMEB-1-24-2.5-LED
				5	151689	KMEB-1-24-5-LED
				10	193457	KMEB-1-24-10-LED

Ordering data – Illuminating seal MEB-LD				Datasheets → Internet: meb, mc	
	Description	Operating voltage range	Part no.	Type	
	For plug socket with cable KMEB and plug socket MSSD-EB	12 ... 24 V DC	151717	MEB-LD-12-24DC	

Ordering data – Silencer U				
	Pneumatic connection	Part no.	Type	
	G1/4	2316	U-1/4	
	G1/2	2310	U-1/2	

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