Service unit combination MSB6

Characteristics

At a glance

Predefined or freely configurable service unit combinations.
- Grid dimension: 62 mm
- Depending on the application, consisting of filter regulator, filter, lubricator, on/off valve, soft-start valve, branching module

Ordering data - modular system

Link msb6

Configurable product
This product and all its product options can be ordered online via the configurator.

For explanations of the type code, see the downloadable additional document.

Engineering tools

Link engineering tools

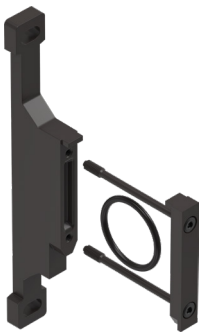
A selection tool for sizing a suitable service unit component and the correct air purity class can be found under Engineering Tools.

Pneumatic connection

Depending on the size, different connection types can be selected:
- Individual fittings that are fastened via a female thread
- Connecting plates with female thread

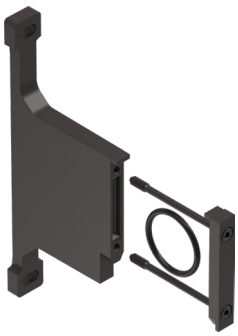
Type of mounting

[WP] Mounting bracket basic design



- For connecting the modules for wall mounting
- In combination with connecting plate MS6-AG... for wall mounting an individual device
- In combination with mounting plate MS6-AEND for wall mounting of a single device
- Same wall distance for mixing combination with MS4 and MS6 series

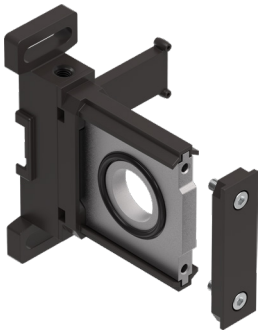
[WPB] Mounting bracket for large wall gap



- For connecting the modules for wall mounting
- In combination with connecting plate MS6-AG... for wall mounting an individual device
- In combination with mounting plate MS6-AEND for wall mounting of a single device
- Provides large wall gap for pressure regulator

Characteristics

[WPM]	Mounting bracket for hooking in service unit components



- For connecting the modules for wall mounting
- In combination with connecting plate MS6-AG... for wall mounting an individual device
- Fast hooking and unhooking
- For installing modules with the regulator knob pointing downwards

EU certification

Selected types in accordance with the ATEX directive for potentially explosive atmospheres can be ordered via the configurator.

UL certification

Optional device variant UL1, which meets the safety requirements for the Canadian and US markets.

Flow direction

Available with flow in the opposite direction.

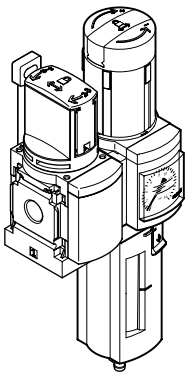
Service unit component equipment

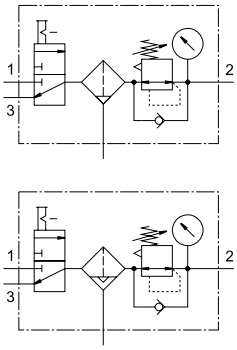
The order of the individual service unit components within a combination is relevant for safety and functionality. The following rules must be taken into account:

- Regulators MS-LFR/LR/LRP are only permissible in the flow direction with an equal or decreasing pressure regulation range
- Filters MS-LFR/LF/LFM/LFX are only permissible in the flow direction with an increasing grade of filtration
- Lubricators MS-LOE are not permitted in the flow direction upstream of a filterMS-LFR/LFM/LF/LFX, water separator MS-LWS or membrane air dryer MS-LDM1
- A micro filter MS-LFM must be installed in the flow direction upstream of an activated carbon filter MS-LFX or membrane air dryer MS-LDM1
- A flow sensor SFAM cannot be installed directly downstream of a regulator MS-LFR/LR; a branching module MS-FRM must be positioned between them
- A soft-start/quick exhaust valve MS-SV must be the last service unit component in the flow direction

Datasheet

Technical data – Combination 1





- For filtered and unlubricated compressed air supply.
- Supply pressure can be switched on or off
- Output pressure is infinitely adjustable within the pressure regulation range

Setup:

- On/off valve MS6-EM1, manually operated
- Filter control valve MS6-LFR with pressure gauge
- Mounting bracket MS6-WP

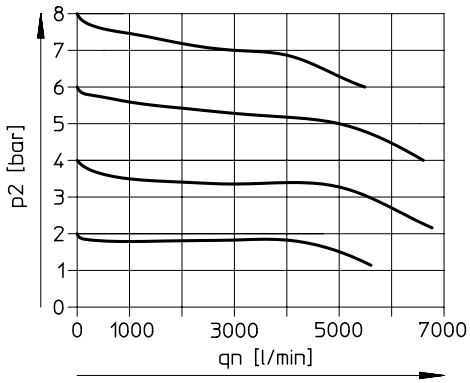
Size	6			
Condensate drain	Fully automatic		Manually rotating	
Grade of filtration	5 µm	40 µm	5 µm	40 µm
Pneumatic connection, port 1	G1/2			
Pneumatic connection, port 2	G1/2			
Controller function	Output pressure constant Via primary pressure compensation With secondary venting With return flow function			
Type of mounting	With accessories			
Mounting position	Vertical +/-5°			
Air purity class at output	Compressed air to ISO 8573-1:2010 [6:4:4]	Compressed air to ISO 8573-1:2010 [7:4:4]	Compressed air to ISO 8573-1:2010 [6:4:4]	Compressed air to ISO 8573-1:2010 [7:4:4]
Bowl guard	Plastic bowl guard			
Actuator lock	Rotary knob with detent can be closed with accessories			
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	With pressure gauge			
Pressure regulation range	0.5 ... 12 bar			
Operating pressure	2 ... 12 bar		0.8 ... 18 bar	
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4], Inert gases			
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)			
Ambient temperature	5 ... 60°C		-10 ... 60°C	
Media temperature	5 ... 60°C		-10 ... 60°C	
Storage temperature	-10 ... 60°C			
Corrosion resistance class CRC [1]	2 - Moderate corrosion stress			
Suitable for use with food [2]	See supplementary material information			
Material housing	Die-cast aluminium			
Material bowl	PC	PE	PC	
LABS (PWIS) conformity	VDMA24364-B1/B2-L			

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

2) More information www.festo.com/catalogue/msb6 → Support/Downloads.

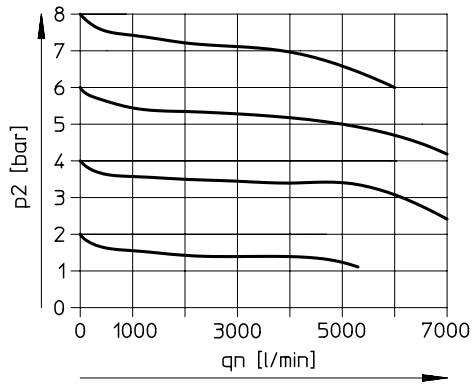
Datasheet

Standard flow rate qn as a function of output pressure p2 (combination 1)



Grade of filtration 5 µm
Pressure regulation range 0.5 ... 12 bar
Primary pressure p1 = 10 bar

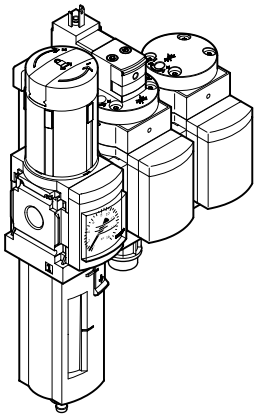
Standard flow rate qn as a function of output pressure p2 (combination 1)

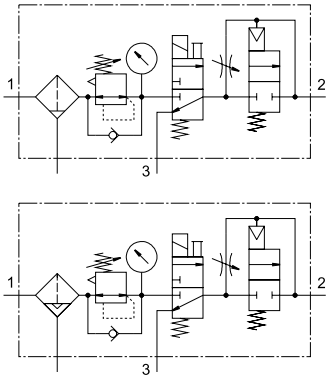


Grade of filtration 40 µm
Pressure regulation range 0.5 ... 12 bar
Primary pressure p1 = 10 bar

Datasheet

Technical data – Combination 2





- For filtered and unlubricated compressed air supply.
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements.
- When the unit is switched off, quick exhausting ensures rapid pressure reduction.

Setup:
- Filter regulator MS6-LFR-D7 with pressure gauge
- On/off valve MS6-EE-V24, electrically actuated
- Soft-start valve MS6-DL, pneumatically actuated
- Mounting bracket MS6-WP

Size	6	
Condensate drain	Fully automatic	Manually rotating
Grade of filtration	40 µm	
Condensate drain	Automatic	Manually
Pneumatic connection, port 1	G1/2	
Pneumatic connection, port 2	G1/2	
Controller function	Output pressure constant Via primary pressure compensation With secondary venting With return flow function	
Type of mounting	With accessories	
Mounting position	Vertical +/-5°	
Air purity class at output	Compressed air to ISO 8573-1:2010 [7:4:4]	
Bowl guard	Plastic bowl guard	
Actuator lock	Rotary knob with detent can be closed with accessories	
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	With pressure gauge	
Pressure regulation range	4 ... 12 bar	
Operating pressure	4.5 ... 12 bar	4.5 ... 18 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:-], Inert gases	Compressed air to ISO 8573-1:2010 [-:4:-], Inert gases
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)	
Ambient temperature	5 ... 60°C	-10 ... 60°C
Media temperature	5 ... 60°C	-10 ... 60°C
Storage temperature	-10 ... 60°C	
Corrosion resistance class CRC [1]	2 - Moderate corrosion stress	
Suitable for use with food [2]	See supplementary material information	
Material housing	Die-cast aluminium	
Material bowl	PC	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

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

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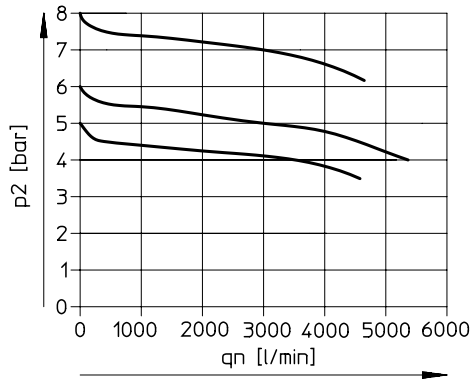
Datasheet

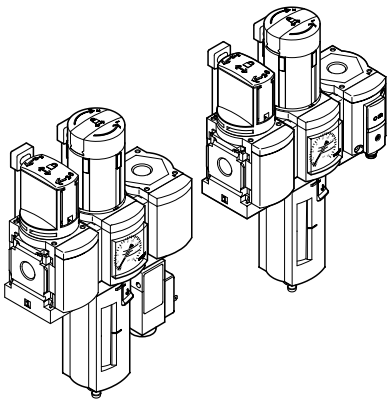
Standard flow rate qn as a function of output pressure p2 (combination 2)

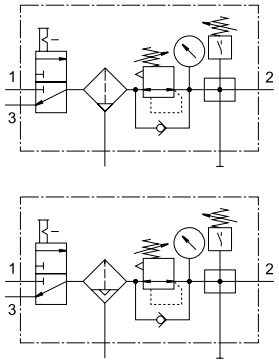


Grade of filtration 40 µm
Pressure regulation range 4 ... 12 bar
Primary pressure p1 = 10 bar

Datasheet

Technical data – Combination 3





- For filtered and unlubricated compressed air supply.
- Supply pressure can be switched on or off
- Output pressure is infinitely adjustable within the pressure regulation range
- Electrical pressure monitoring with adjustable switching pressure.

Setup:

- On/off valve MS6-EM1, manually operated
- Filter control valve MS6-LFR with pressure gauge
- Branching module MS6-FRM-Y with pressure switch or MS6-FRM-AD7 with pressure sensor for switching indicator
- Mounting bracket MS6-WP

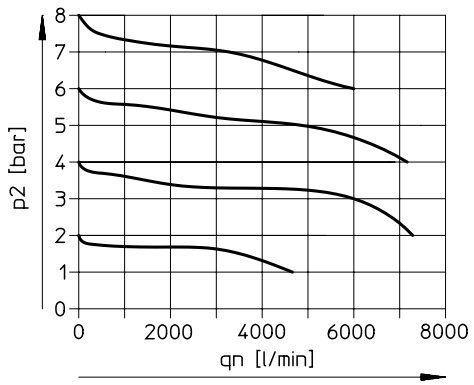
Size	6	
Condensate drain	Fully automatic	Manually rotating
Grade of filtration	40 µm	
Pneumatic connection, port 1	G1/2	
Pneumatic connection, port 2	G1/2	
Controller function	Output pressure constant Via primary pressure compensation With secondary venting With return flow function	
Type of mounting	With accessories	
Mounting position	Vertical +/-5°	
Air purity class at output	Compressed air to ISO 8573-1:2010 [7:4:4]	
Bowl guard	Plastic bowl guard	
Actuator lock	Rotary knob with detent can be closed with accessories	
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	With pressure gauge	
Pressure regulation range	0.5 ... 12 bar	
Operating pressure	2 ... 12 bar	0.8 ... 18 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4], Inert gases	
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)	
Ambient temperature	5 ... 60°C	-10 ... 60°C
Media temperature	5 ... 60°C	-10 ... 60°C
Storage temperature	-10 ... 60°C	
Corrosion resistance class CRC [1]	2 - Moderate corrosion stress	
Suitable for use with food [2]	See supplementary material information	
Material housing	Die-cast aluminium	
Material bowl	PC	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

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

2) More information www.festo.com/catalogue/msb6 → Support/Downloads.

Datasheet

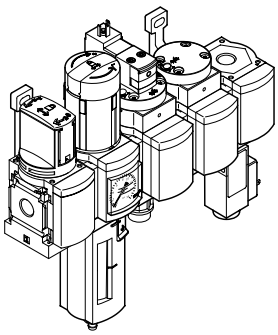
Standard flow rate qn as a function of output pressure p2 (combination 3)

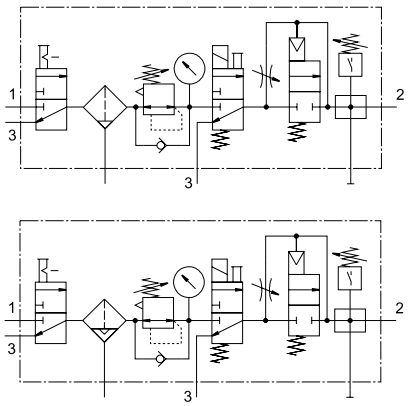


Grade of filtration 40 µm
Pressure regulation range 0.5 ... 12 bar
Primary pressure p1 = 10 bar

Datasheet

Technical data – Combination 4





- For filtered and unlubricated compressed air supply.
- Supply pressure can be switched on or off
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements.
- To shut off and exhaust the downstream device or the system
- Electrical pressure monitoring with adjustable switching pressure.

Setup:

- On/off valve MS6-EM1, manually operated
- Filter regulator MS6-LFR-D7 with pressure gauge
- On/off valve MS6.-EE-V24, electrically actuated
- Soft-start valve MS6-DL, pneumatically actuated
- Branching module MS6-FRM-Y with pressure switch without display
- Mounting bracket MS6-WP

Size	6			
Condensate drain	Fully automatic		Manually rotating	
Grade of filtration	5 µm	40 µm	5 µm	40 µm
Pneumatic connection, port 1	G1/2			
Pneumatic connection, port 2	G1/2			
Controller function	Output pressure constant Via primary pressure compensation With secondary venting With return flow function			
Type of mounting	With accessories			
Mounting position	Vertical +/-5°			
Air purity class at output	Compressed air to ISO 8573-1:2010 [6:4:4]	Compressed air to ISO 8573-1:2010 [7:4:4]	Compressed air to ISO 8573-1:2010 [6:4:4]	Compressed air to ISO 8573-1:2010 [7:4:4]
Bowl guard	Plastic bowl guard			
Actuator lock	Rotary knob with detent can be closed with accessories			
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	With pressure gauge			
Pressure regulation range	4 ... 12 bar			
Operating pressure	4.5 ... 12 bar		4.5 ... 18 bar	
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4], Inert gases			
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)			
Ambient temperature	5 ... 60°C		-10 ... 60°C	
Media temperature	5 ... 60°C		-10 ... 60°C	
Storage temperature	-10 ... 60°C			
Corrosion resistance class CRC [1]	2 - Moderate corrosion stress			
Suitable for use with food [2]	See supplementary material information			
Material housing	Die-cast aluminium			
Material bowl	PC			
LABS (PWIS) conformity	VDMA24364-B1/B2-L			

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

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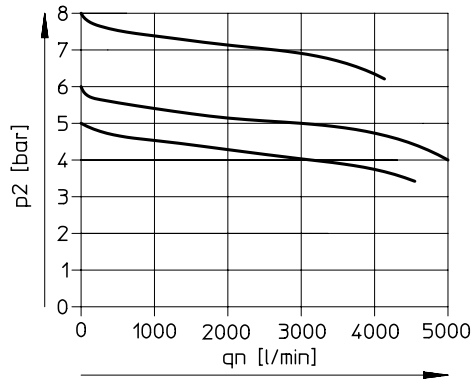
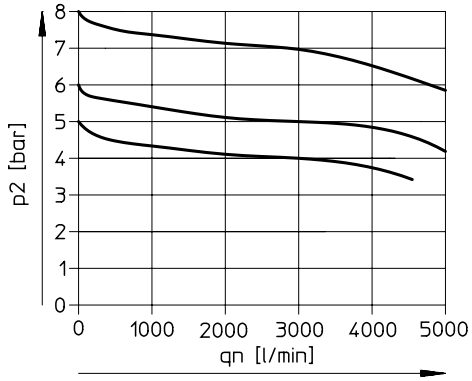
Datasheet

Standard flow rate qn as a function of output pressure p2 (Combination 4)



Grade of filtration 5 µm
Pressure regulation range 4 ... 12 bar
Primary pressure p1 = 10 bar

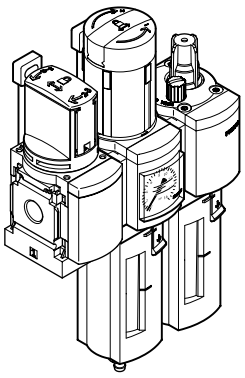
Standard flow rate qn as a function of output pressure p2 (Combination 4)

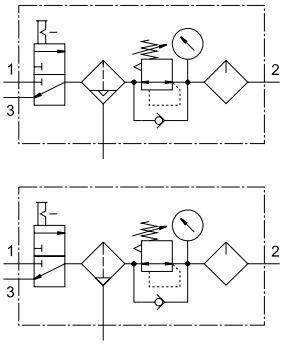


Grade of filtration 40 µm
Pressure regulation range 4 ... 12 bar
Primary pressure p1 = 10 bar

Datasheet

Technical data – Combination 5





- For filtered and lubricated compressed air supply.
- Supply pressure can be switched on or off
- Output pressure is infinitely adjustable within the pressure regulation range

Setup:
- On/off valve MS6-EM1, manually operated
- Filter regulator MS6-LFR-D7 with pressure gauge
- Lubricator MS6-LOE-R
- Mounting bracket MS6-WP

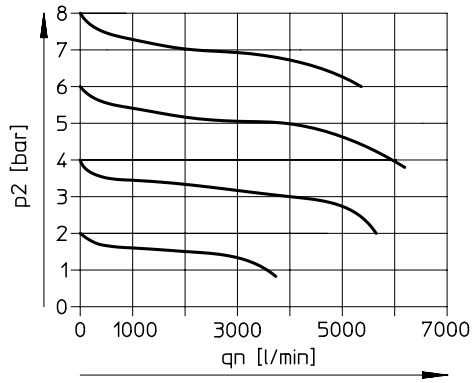
Size	6	
Condensate drain	Fully automatic	Manually rotating
Grade of filtration	40 µm	
Pneumatic connection, port 1	G1/2	
Pneumatic connection, port 2	G1/2	
Controller function	Output pressure constant Via primary pressure compensation With secondary venting With return flow function	
Type of mounting	With accessories	
Mounting position	Vertical +/-5°	
Air purity class at output	Compressed air to ISO 8573-1:2010 [7:4:-]	
Bowl guard	Plastic bowl guard	
Actuator lock	Rotary knob with detent can be closed with accessories	
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	With pressure gauge	
Pressure regulation range	1 ... 12 bar	
Operating pressure	2 ... 12 bar	1.5 ... 18 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4], Inert gases	
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)	
Ambient temperature	5 ... 60°C	-10 ... 60°C
Media temperature	5 ... 60°C	-10 ... 60°C
Storage temperature	-10 ... 60°C	
Corrosion resistance class CRC [1]	2 - Moderate corrosion stress	
Suitable for use with food [2]	See supplementary material information	
Material housing	Die-cast aluminium	
Material bowl	PC	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

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

2) More information www.festo.com/catalogue/msb6 → Support/Downloads.

Datasheet

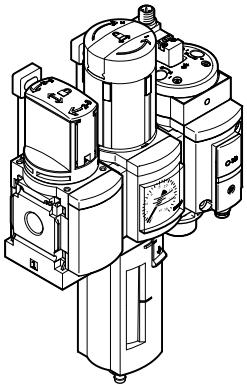
Standard flow rate qn as a function of output pressure p2 (combination 5)

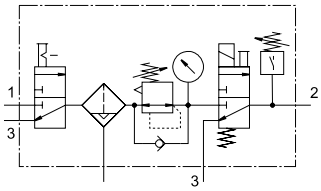


Grade of filtration 40 µm
Pressure regulation range 1 ... 12 bar
Primary pressure p1 = 10 bar

Datasheet

Technical data – Combination 6





- For filtered and unlubricated compressed air supply.
- Supply pressure can be switched on or off
- Output pressure is infinitely adjustable within the pressure regulation range
- When the unit is switched off, quick exhausting ensures rapid pressure reduction.
- Electrical pressure monitoring with adjustable switching pressure.

Setup:
- On/off valve MS6-EM1, manually operated
- Filter control valve MS6-LFR with pressure gauge
- On/off valve MS6-EE-10V24P-AD7, electrically operated, with pressure sensor for switching indicator
- Mounting bracket MS6-WP

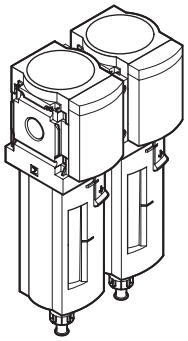
Size	6
Condensate drain	Manually rotating
Grade of filtration	40 µm
Pneumatic connection, port 1	G1/2
Pneumatic connection, port 2	G1/2
Controller function	Output pressure constant Via primary pressure compensation With secondary venting With return flow function
Type of mounting	With accessories
Mounting position	Vertical +/-5°
Air purity class at output	Compressed air to ISO 8573-1:2010 [7:4:4]
Bowl guard	Plastic bowl guard
Actuator lock	Rotary knob with detent can be closed with accessories
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	With pressure gauge
Pressure regulation range	4 ... 10 bar
Operating pressure	4 ... 18 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4], Inert gases
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Ambient temperature	0 ... 50°C
Media temperature	0 ... 50°C
Storage temperature	-10 ... 60°C
Corrosion resistance class CRC [1]	2 - Moderate corrosion stress
Suitable for use with food [2]	See supplementary material information
Material housing	Die-cast aluminium
Material bowl	PC
LABS (PWIS) conformity	VDMA24364-B1/B2-L

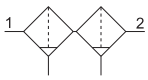
1) More information www.festo.com/x/topic/kbk

2) More information www.festo.com/catalogue/msb6 → Support/Downloads.

Datasheet

Technical data – Combination 7





- For graduated filtered compressed air supply.

Setup:

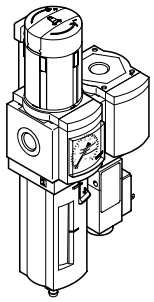
- Fine filter, grade of filtration 1 µm, plastic bowl with plastic bowl guard, manual condensate drain
- Micro filter, grade of filtration 0.01 µm, plastic bowl with plastic bowl guard, manual condensate drain
- Module connector MS6-MV1

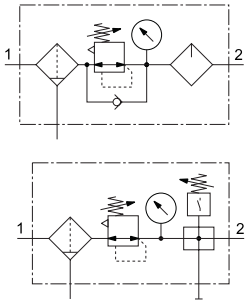
Size	6
Condensate drain	Fully automatic
Pneumatic connection, port 1	G3/8
Pneumatic connection, port 2	G3/8
Design	Fibre filter
Type of mounting	With accessories
Mounting position	Vertical +/-5°
Air purity class at output	Compressed air to ISO 8573-1:2010:[5:-:3]
Bowl guard	Plastic bowl guard
Operating pressure	2 ... 12 bar
Operating medium	Compressed air to ISO 8573-1:2010 [6:-:4], Inert gases
Ambient temperature	-10 ... 60°C
Media temperature	-10 ... 60°C
Storage temperature	-10 ... 60°C
Corrosion resistance class CRC [1)]	2 - Moderate corrosion stress
Material housing	Die-cast aluminium
Material bowl	PC
LABS (PWIS) conformity	VDMA24364-B1/B2-L

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

Datasheet

Technical data – Combination 8





- For filtered and unlubricated compressed air supply.
- Output pressure is infinitely adjustable within the pressure regulation range.
- Electrical pressure monitoring with adjustable switching pressure.

Setup:

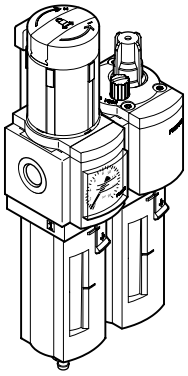
- Filter regulator MS6-LFR-D7 with pressure gauge
- Branching module MS6-FRM-Y with pressure switch or MS6-FRM-AD7 with pressure sensor for switching indicator
- Mounting bracket MS6-WP

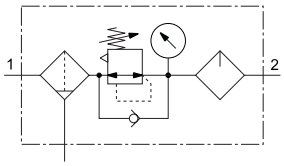
Size	6	
Condensate drain	Fully automatic	Manually rotating
Grade of filtration	40 µm	
Pneumatic connection, port 1	G3/8	G1/2, G3/4
Pneumatic connection, port 2	G3/8	G1/2, G3/4
Design	Filter/Closed-loop controller/lubricator	Branching module On-off valve/filter regulator
Controller function	Output pressure constant Via primary pressure compensation With secondary venting With return flow function	
Type of mounting	Via mounting bracket	
Mounting position	Vertical +/-5°	
Air purity class at output	Compressed air to ISO 8573-1:2010 [7:4:4]	
Bowl guard	Plastic bowl guard	
Actuator lock	Rotary knob with detent can be closed with accessories	
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	With pressure gauge	
Pressure regulation range	0.5 ... 12 bar	
Operating pressure	2 ... 12 bar	0.8 ... 20 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:-], Inert gases	Compressed air to ISO 8573-1:2010 [-:4:-], Inert gases
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)	
Ambient temperature	-10 ... 60°C	
Media temperature	-10 ... 60°C	
Storage temperature	-10 ... 60°C	
Corrosion resistance class CRC [1]	2 - Moderate corrosion stress	
Material housing	Die-cast aluminium	
Material bowl	PC	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

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

Datasheet

Technical data – Combination 9





- For filtered and unlubricated compressed air supply.
- Output pressure is infinitely adjustable within the pressure regulation range.

Setup:
- Filter regulator MS4-LFR with pressure gauge
- Lubricator MS6-LOE-R
- Module connector MS6-MV1

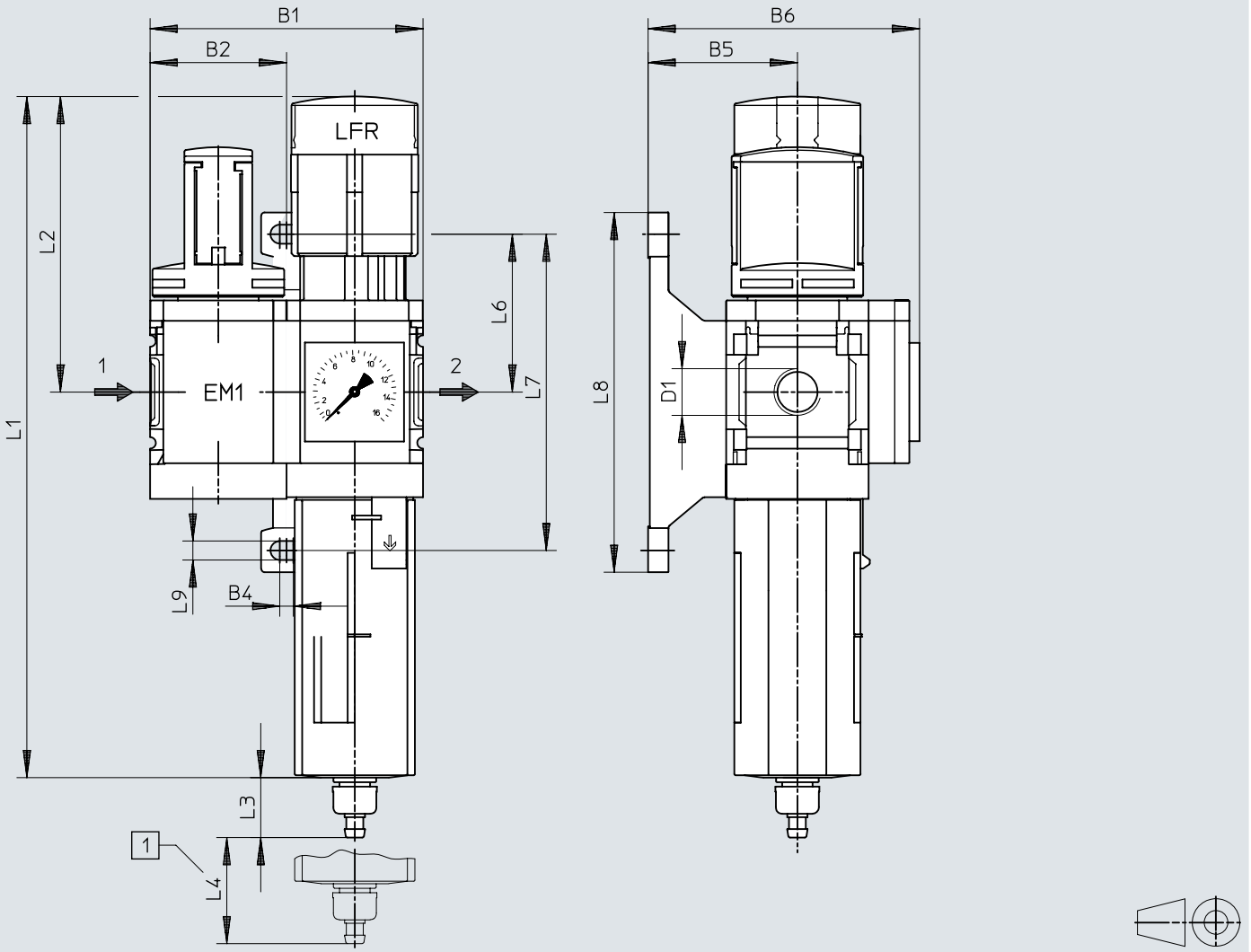
Size	6		
Condensate drain	Fully automatic		Manually rotating
Grade of filtration	5 µm	40 µm	
Pneumatic connection, port 1	G1/2	G1/4, G3/8, G1/2, G3/4	G1/2, G3/4
Pneumatic connection, port 2	G1/2	G1/4, G3/8, G1/2, G3/4	G1/2, G3/4
Design	Filter/Closed-loop controller/lubricator		
Controller function	Output pressure constant Via primary pressure compensation With secondary venting With return flow function		
Type of mounting	With accessories	Via mounting bracket, With accessories	
Mounting position	Vertical +/-5°		
Air purity class at output	Compressed air to ISO 8573-1:2010 [6:4:-]	Compressed air to ISO 8573-1:2010 [7:4:-]	
Bowl guard	Plastic bowl guard		
Actuator lock	Rotary knob with detent can be closed with accessories		
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	With pressure gauge		
Pressure regulation range	0.5 ... 12 bar	0.1 ... 12 bar	
Operating pressure	2 ... 12 bar		1.5 ... 20 bar
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:-], Inert gases		Compressed air to ISO 8573-1:2010 [-:4:-], Inert gases
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)		
Ambient temperature	-10 ... 60°C		
Media temperature	-10 ... 60°C		
Storage temperature	-10 ... 60°C		
Corrosion resistance class CRC [1)]	2 - Moderate corrosion stress		
Material housing	Die-cast aluminium		
Material bowl	PC		
LABS (PWIS) conformity	VDMA24364-B1/B2-L		

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

Dimensions

Dimensions – Combination 1 – Manually operated on/off valve, filter regulator with pressure gauge

Download CAD data www.festo.com



[1] Installation dimension

	B1	B2	B4	B5	B6	D1	L1	L2
MSB6	124	62	4,5	54	100	G1/2	285	134,5

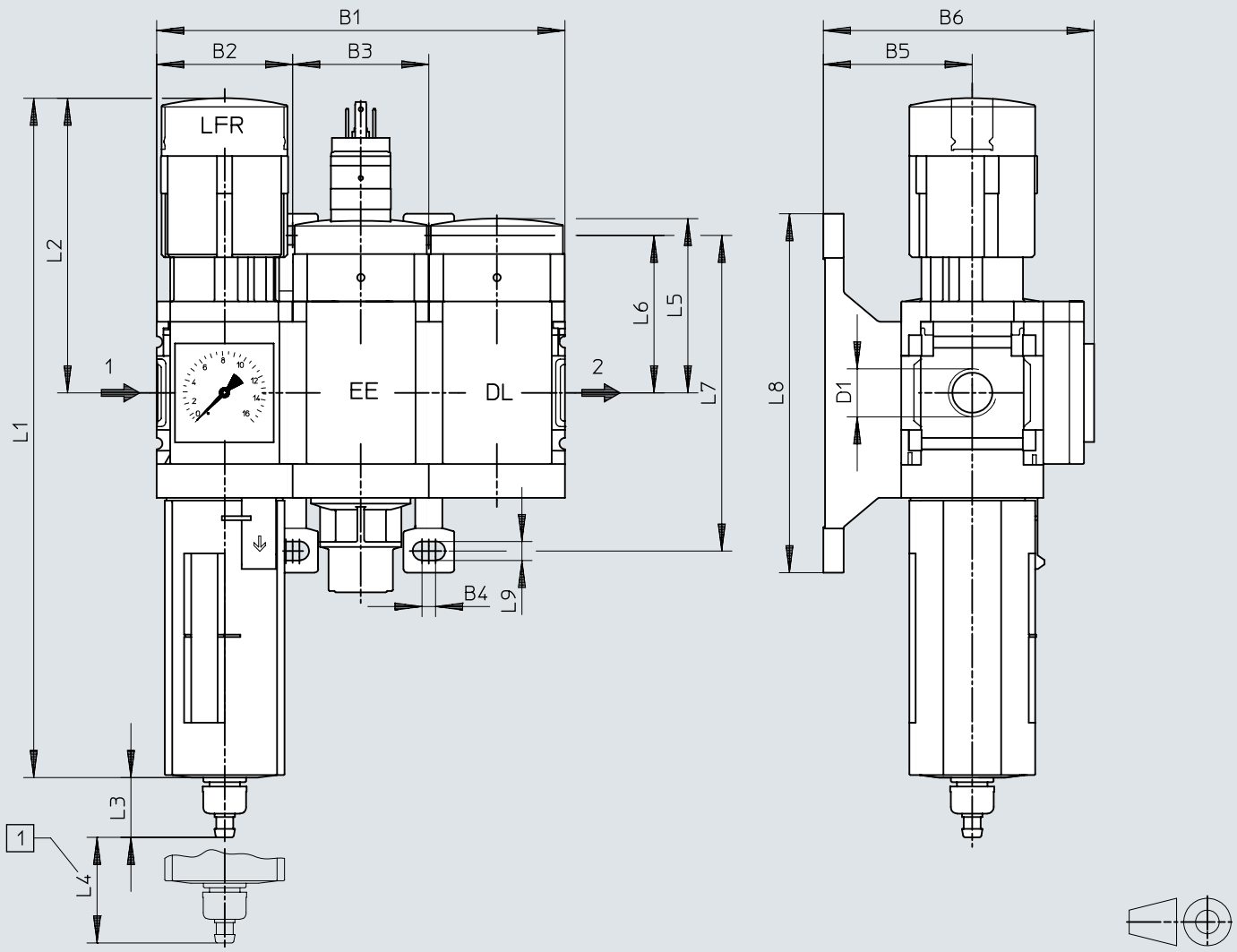
	L3		L4	L6	L7	L8	L9
	1)	2)					
MSB6	15,8	18,5	68	71	142	158	6,6

1) Manual condensate drain
2) Fully automatic condensate drain

Dimensions

Dimensions – Combination 2 – Filter regulator with pressure gauge, electrically operated on/off valve, pneumatically operated soft-start valve

Download CAD data www.festo.com



[1] Installation dimension

	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB6	186	62	62	4,5	54	100	G1/2	285	134,5

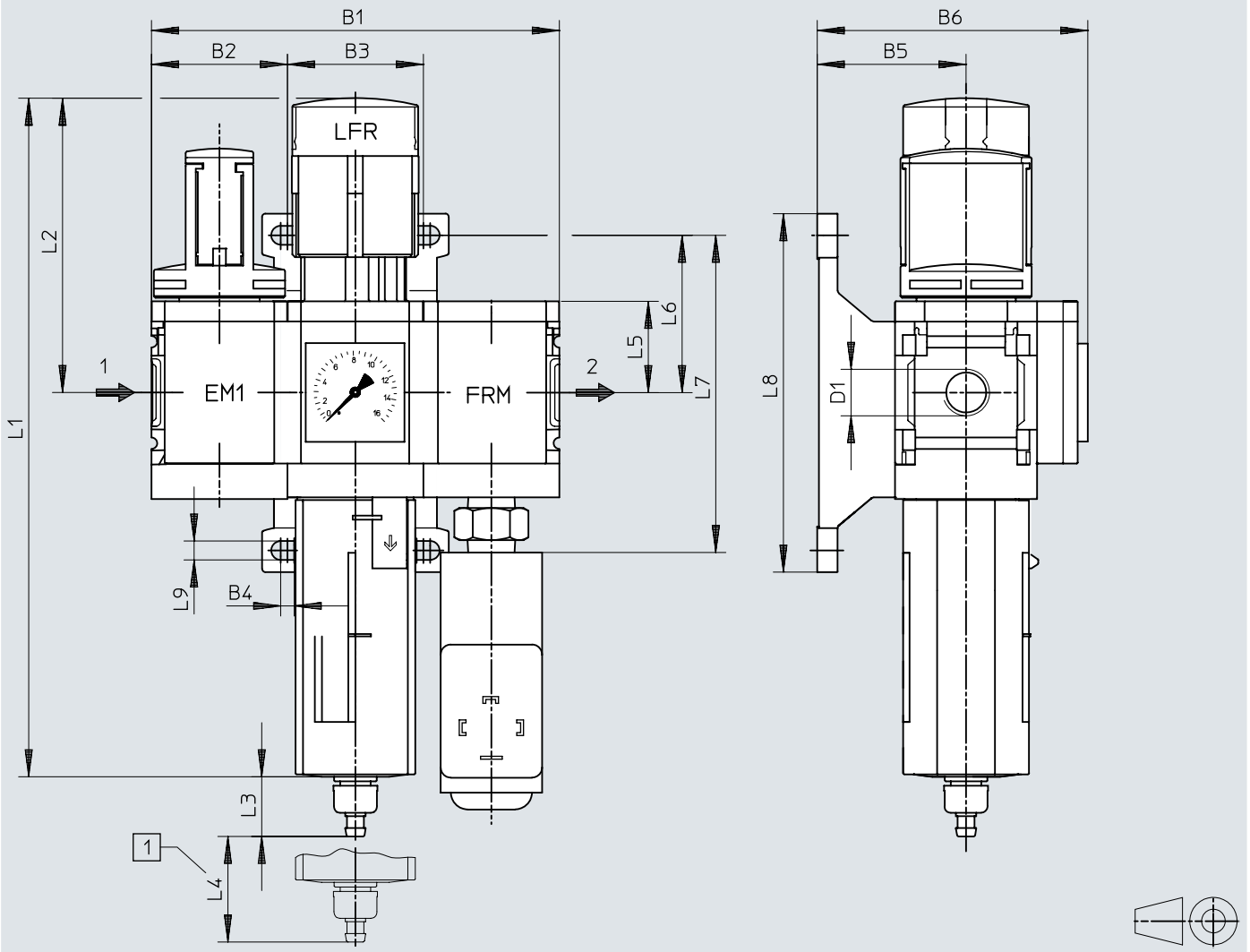
	L3		L4	L5	L6	L7	L8	L9
	1)	2)						
MSB6	15,8	18,5	68	71	71	142	158	6,6

1) Manual condensate drain
2) Fully automatic condensate drain

Dimensions

Dimensions – Combination 3 – Manually operated on/off valve, filter regulator with pressure gauge, branching module with pressure switch

Download CAD data www.festo.com



[1] Installation dimension

	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB6	186	62	62	4,5	54	100	G1/2	285	134,5

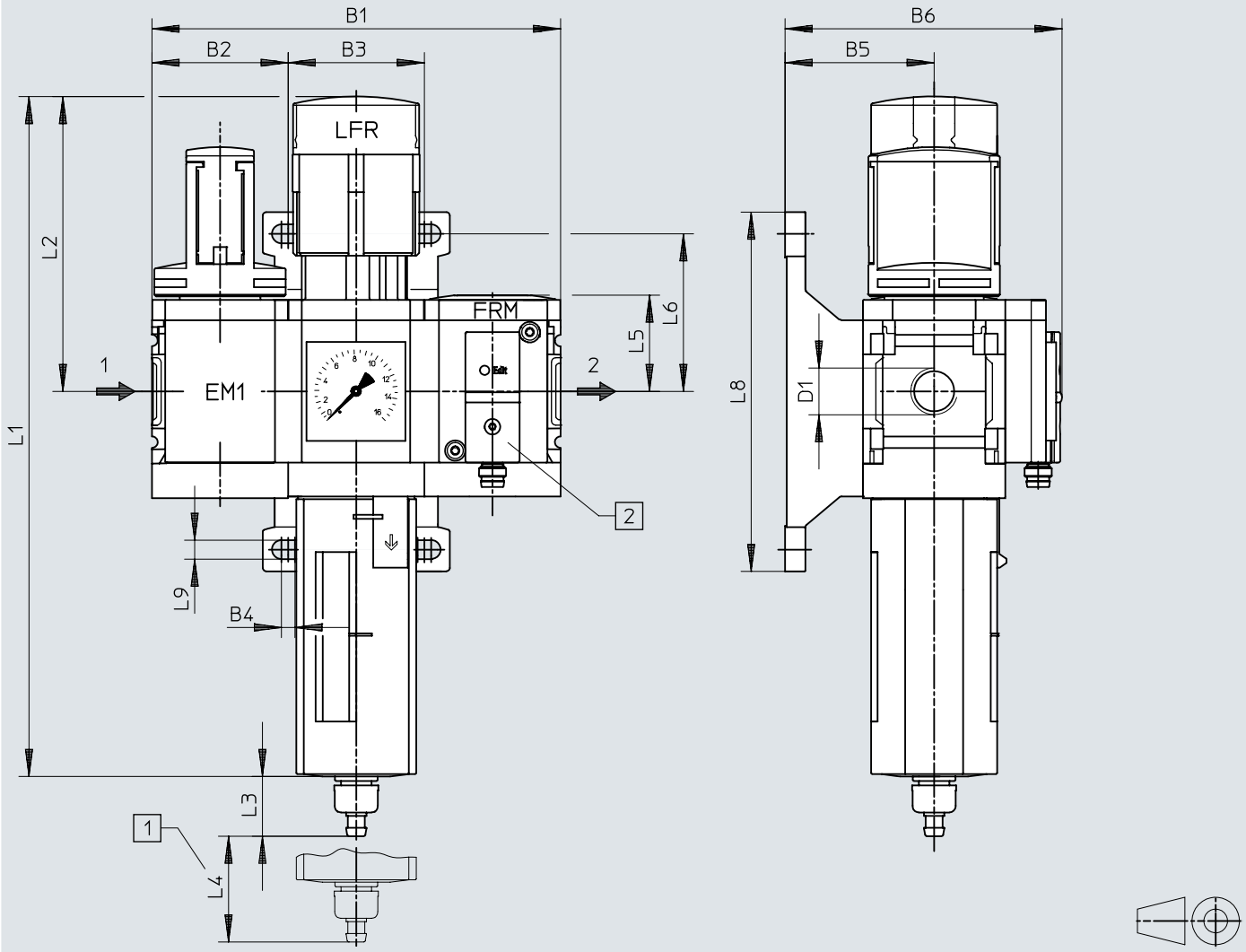
	L3		L4	L5	L6	L7	L8	L9
	1)	2)						
MSB6	15,8	18,5	68	39	71	142	158	6,6

1) Manual condensate drain
2) Fully automatic condensate drain

Dimensions

Dimensions – Combination 3 – Manually operated on/off valve, filter regulator with pressure gauge, branching module with pressure sensor

Download CAD data www.festo.com



[1] Installation dimension

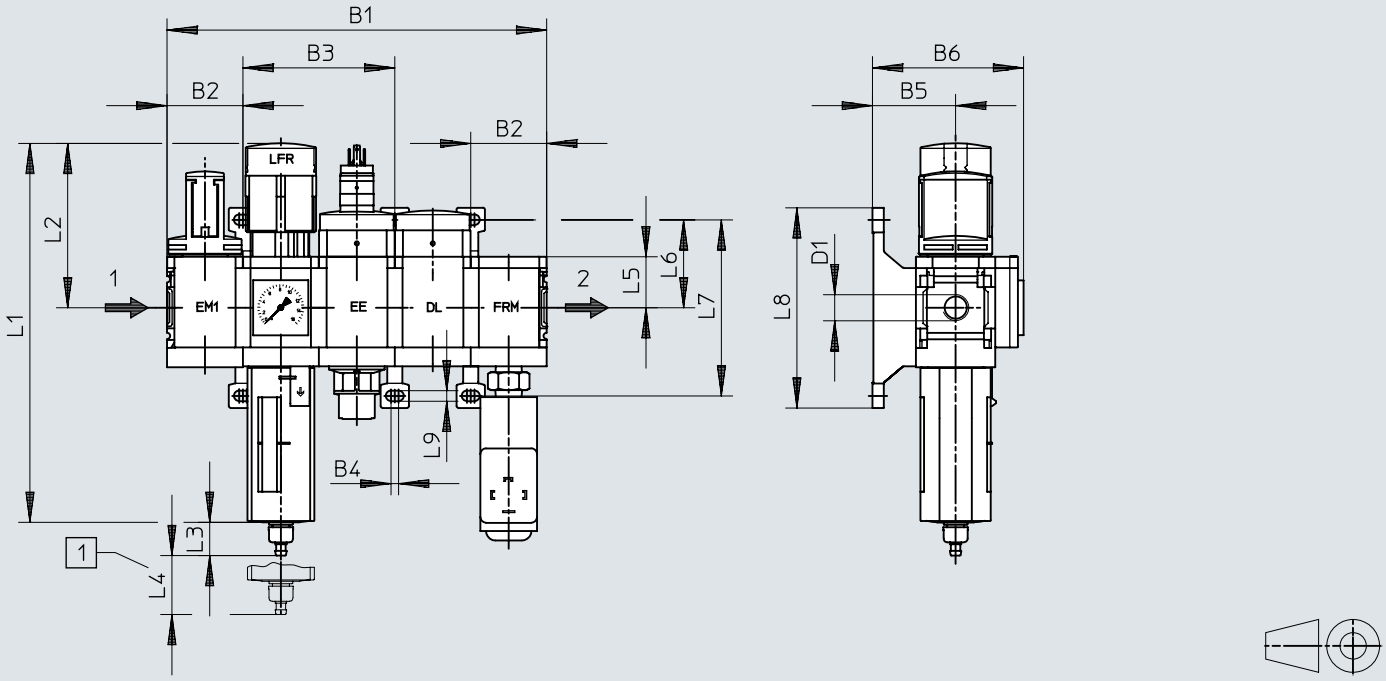
[2] Pressure sensor SDE5-D10-O-...-P-M8 with 3-pin plug M8x1, threshold value comparator, 1 switching output PNP, N/O contact

	B1	B2	B3	B4	B5	B6	D1	L1	L2	L3	L4	L5	L6	L8	L9
MSB6	186	62	62	4,5	54	102	G1/2	285	134,5	15,8	68	41,7	71	158	6,6

Dimensions

Dimensions – Combination 4 – Manually operated on/off valve, filter regulator with pressure gauge, electrically operated on/off valve, pneumatically operated soft-start valve, branching module with pressure switch

Download CAD data www.festo.com



[1] Installation dimension

	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB6	310	62	124	4,5	54	100	G1/2	285	134,5

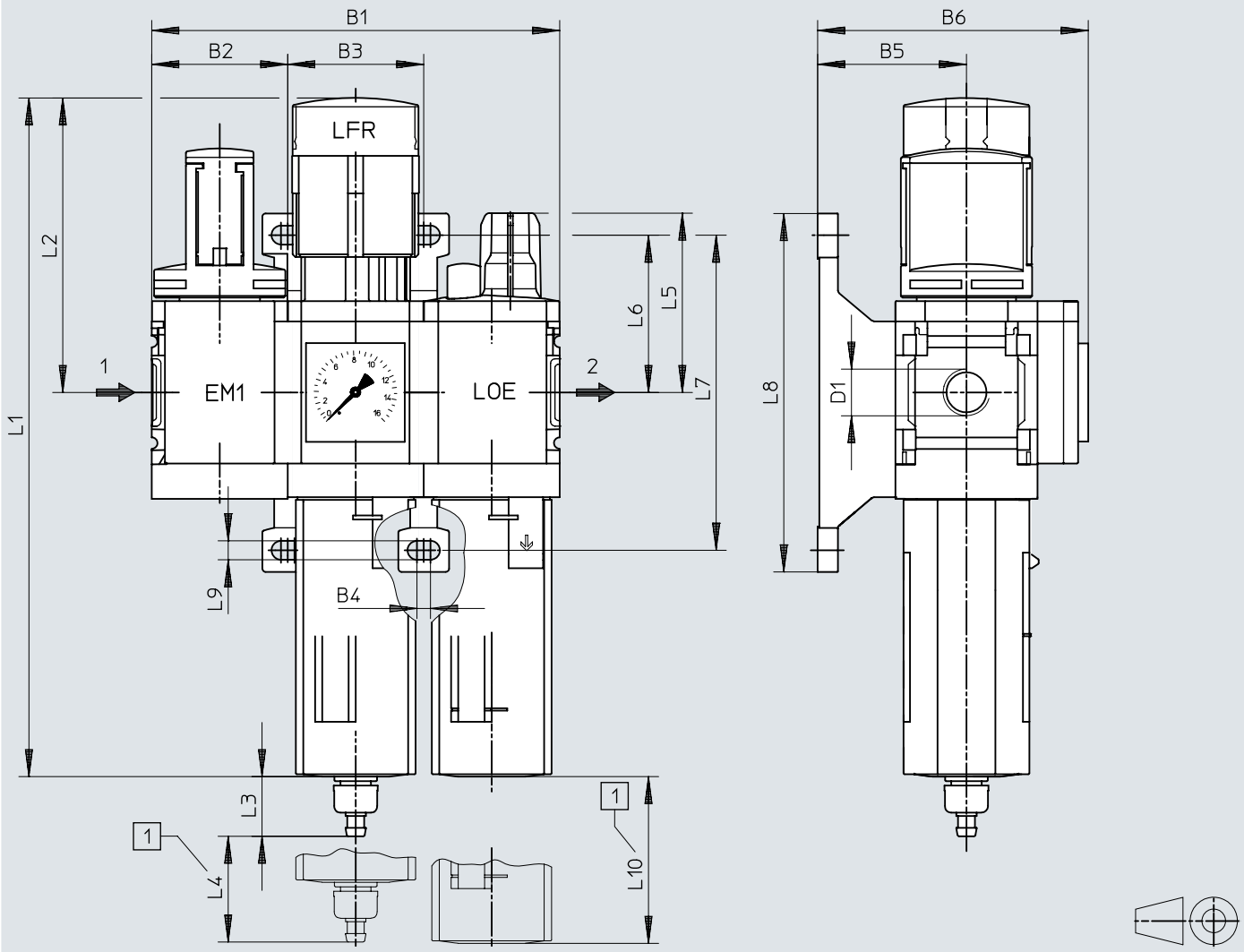
	L3		L4	L5	L6	L7	L8	L9
	1)	2)						
MSB6	15,8	18,5	68	39	71	142	158	6,6

1) Manual condensate drain
2) Fully automatic condensate drain

Dimensions

Dimensions – Combination 5 – Manually operated on/off valve, filter regulator with pressure gauge, lubricator

Download CAD data www.festo.com



[1] Installation dimension

	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB6	186	62	62	4,5	54	100	G1/2	285	134,5

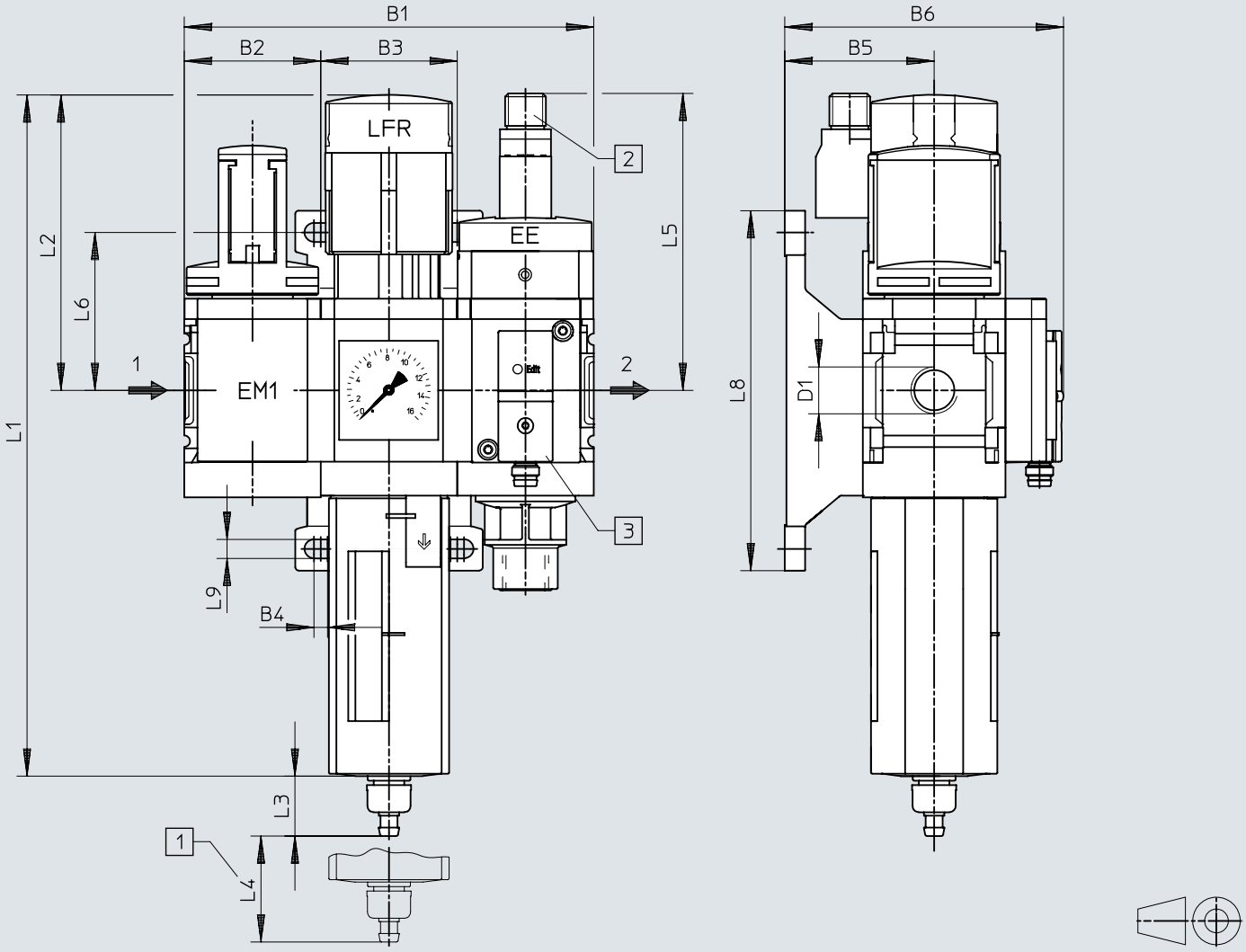
	L3		L4	L5	L6	L7	L8	L9	L10
	1)	2)							
MSB6	15,8	18,5	68	66	71	142	158	6,6	130

1) Manual condensate drain
2) Fully automatic condensate drain

Dimensions

Dimensions – Combination 6 – Manually operated on/off valve, filter regulator with pressure gauge, electrically operated on/off valve with pressure sensor

Download CAD data www.festo.com

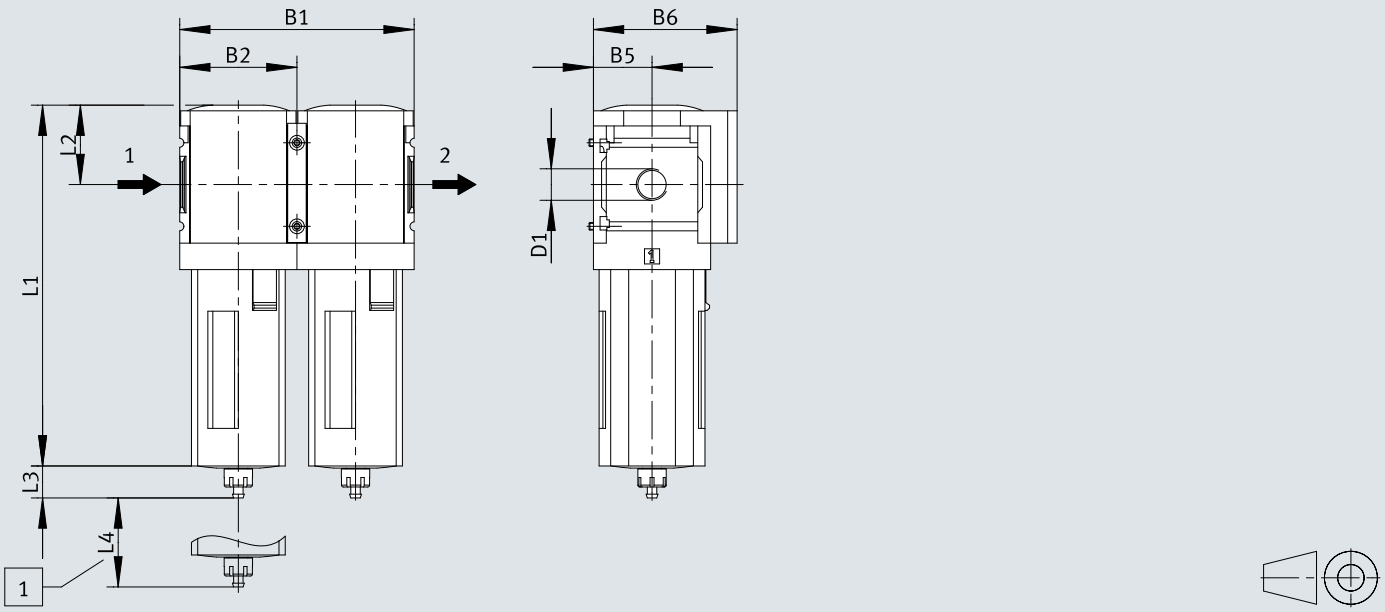


[1] Installation dimension
[2] Electrical connection according to IEC 61076-2-101, plug M12x1, 2-pin for NEBA-M12
[3] Pressure sensor SDE5-D10-O-...-P-M8 with 3-pin plug M8x1, threshold value comparator, 1 switching output PNP, N/O contact

	B1	B2	B3	B4	B5	B6	D1	L1	L2	L3	L4	L5	L6	L8	L9
MSB6	186	62	62	4,5	54	102	G1/2	285	134,5	15,8	68	104	71	158	6,6

Dimensions

Dimensions – Combination 7 – Fine filter (1 µm), micro filter (0.01 µm) Download CAD data www.festo.com



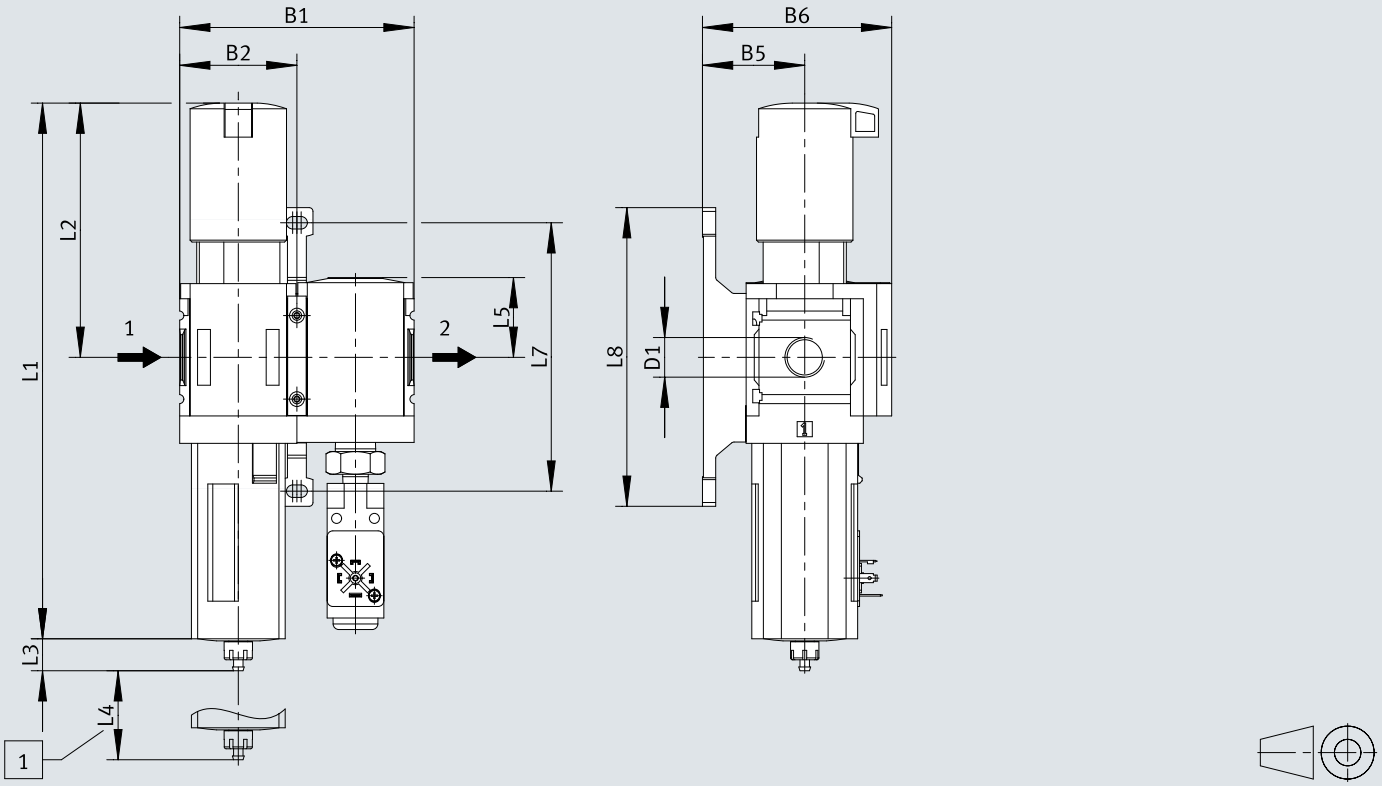
[1] Installation dimension

	B1	B2	B5	B6	D1	L1	L2	L3	L4 min.
MSB6	124	62	31	76	G3/8	190,9	42	16,9	75

Dimensions

Dimensions – Combination 8 - Filter control valve with pressure gauge, branching module with pressure sensor

Download CAD data www.festo.com



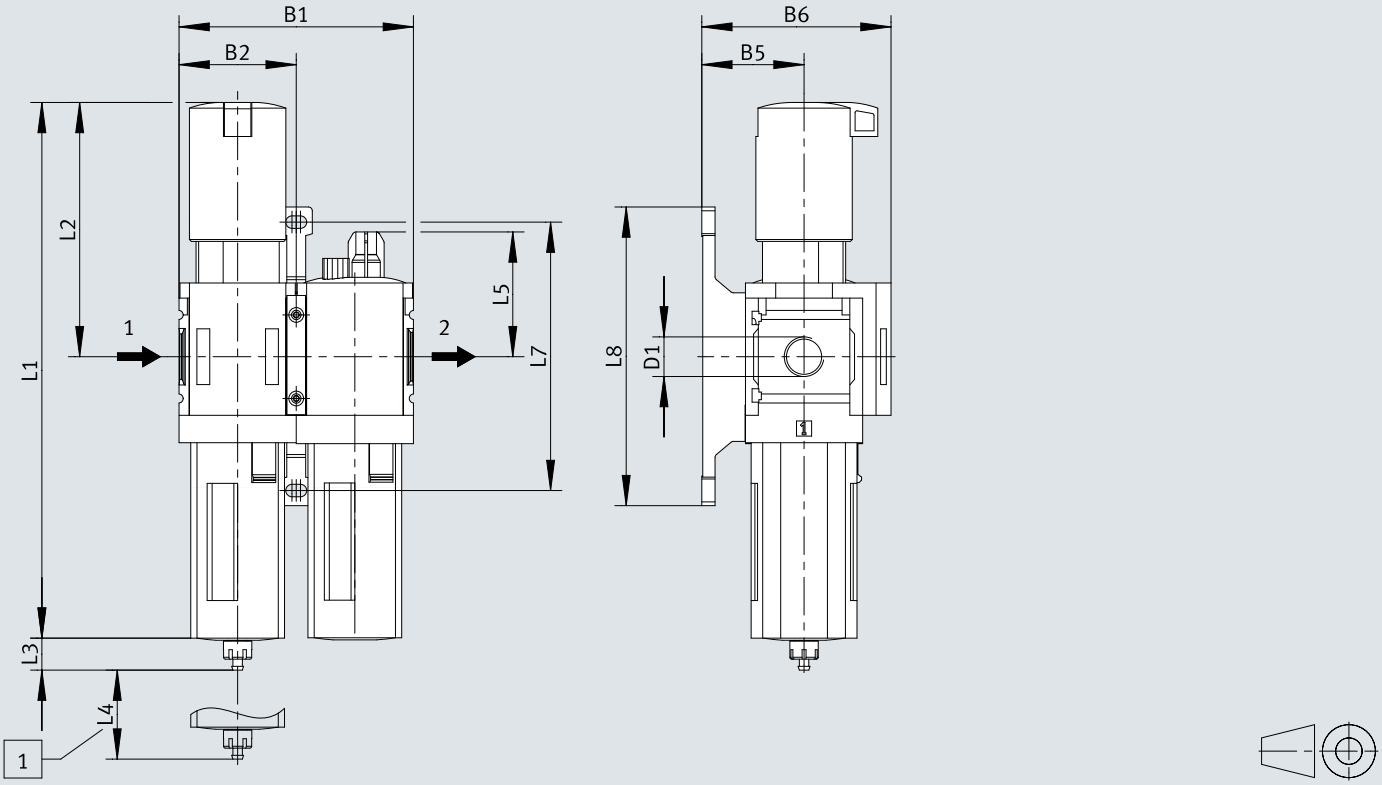
[1] Installation dimension

	B1	B2	B5	B6	D1	L1	L2	L3	L4 min.	L5	L7	L8
MSB6	124	62	54,1	100,1	G1/2	283,4	134,5	16,9	68	42,2	142	158

Dimensions

Dimensions – Combination 9 – Filter regulator with pressure gauge, lubricator

Download CAD data www.festo.com



[1] Installation dimension

	B1	B2	B5	B6	D1	L1	L2	L3	L4 min.	L5	L7	L8
MSB6	124	62	54,1	100,1	G1/2	283,4	134,5	16,9	68	66	142	158

Ordering data

Ordering data – Combination 1

	Pneumatic connection, port 1	Pressure regulation range	Condensate drain	Grade of filtration	Product weight	Part no.	Type
	G1/4	0.5 ... 12 bar	Manually rotating	40 µm	1,540 g	**8233030**	**MSB6-1/4:C3:J1-WP**
	G3/8		Fully automatic			**8233036**	**MSB6-3/8:C3:J2-WP**
			Manually rotating			**8233034**	**MSB6-3/8:C3:J1-WP**
	G1/2	0.5 ... 7 bar			1,100 g	**8042672**	**MSB6-1/2:C3:J120-WP**
		0.5 ... 12 bar	Fully automatic	5 µm		**542286**	**MSB6-1/2:C3J4-WP**
				40 µm		**542274**	**MSB6-1/2:C3J2-WP**
			Manually rotating	5 µm		**542280**	**MSB6-1/2:C3J3-WP**
				40 µm		**8025355**	**MSB6-1/2:C3:J1-WP**
	G3/4		Fully automatic		1,910 g	**8233041**	**MSB6-AGE:C3:J2-WP**
						8233040	**MSB6-AGE:C3:J1-WP**

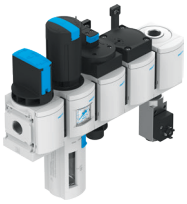
Ordering data – Combination 2

	Pneumatic connection, port 1	Pressure regulation range	Condensate drain	Grade of filtration	Product weight	Part no.	Type
	G1/2	4 ... 12 bar	Fully automatic	40 µm	2,400 g	**530224**	**MSB6-1/2:J2D1A1-WP**
			Manually rotating			**530222**	**MSB6-1/2:J1D1A1-WP**

Ordering data – Combination 3

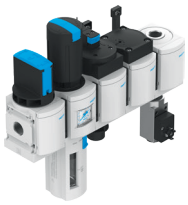
	Pneumatic connection, port 1	Pressure regulation range	Condensate drain	Grade of filtration	Product weight	Part no.	Type
	G3/8	0.5 ... 12 bar	Fully automatic	40 µm	2,360 g	**8233035**	**MSB6-3/8:C3:J2:F3-WP**
			Manually rotating			**8233033**	**MSB6-3/8:C3:J1:F3-WP**
	G1/2	0.5 ... 7 bar			2,000 g	**8042671**	**MSB6-1/2:C3:J120:F12-WP**
		0.5 ... 10 bar				**8025357**	**MSB6-1/2:C3:J1:F12-WP**
		0.5 ... 12 bar	Fully automatic			**542276**	**MSB6-1/2:C3J2F3-WP**
			Manually rotating			**542270**	**MSB6-1/2:C3J1F3-WP**
					2,100 g	**8233022**	**MSB6-1/2:C3:J1:F1-WP**

Ordering data – Combination 4

	Pneumatic connection, port 1	Pressure regulation range	Condensate drain	Grade of filtration	Product weight	Part no.	Type
	G1/4	4 ... 12 bar	Manually rotating	40 µm	3,780 g	**8233029**	**MSB6-1/4:C3:J1:D1:A1:F3-WP**

Ordering data

Ordering data – Combination 4

	Pneumatic connection, port 1	Pressure regulation range	Condensate drain	Grade of filtration	Product weight	Part no.	Type
	G3/8	4 ... 12 bar	Manually rotating	40 µm	3,780 g	**8233032**	**MSB6-3/8:C3:J1:D1:A1:F3-WP**
	G1/2		Fully automatic	5 µm	3,500 g	**542287**	**MSB6-1/2:C3J4D1A1F3-WP**
				40 µm		**542275**	**MSB6-1/2:C3J2D1A1F3-WP**
			Manually rotating	5 µm		**542281**	**MSB6-1/2:C3J3D1A1F3-WP**
				40 µm		**542269**	**MSB6-1/2:C3J1D1A1F3-WP**

Ordering data – Combination 5

	Pneumatic connection, port 1	Pressure regulation range	Condensate drain	Grade of filtration	Product weight	Part no.	Type
	G1/2	1 ... 12 bar	Fully automatic	40 µm	1,750 g	**542278**	**MSB6-1/2:C3J2M1-WP**
			Manually rotating			**542272**	**MSB6-1/2:C3J1M1-WP**

Ordering data – Combination 6

	Pneumatic connection, port 1	Pressure regulation range	Condensate drain	Grade of filtration	Product weight	Part no.	Type
	G1/2	4 ... 7 bar	Manually rotating	40 µm	2,000 g	**8042670**	**MSB6-1/2:C3:J120:D14-WP**
		4 ... 10 bar				**8025359**	**MSB6-1/2:C3:J1:D14-WP**

Ordering data – Combination 7

	Pneumatic connection, port 1	Design	Condensate drain	Bowl guard	Product weight	Part no.	Type
	G3/8	Fibre filter	Fully automatic	Plastic bowl guard	1,240 g	**8233037**	**MSB6-3/8:I2:I4**

Ordering data

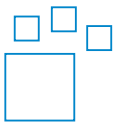
Ordering data – Combination 8

	Pneumatic connection, port 1	Pressure regulation range	Condensate drain	Grade of filtration	Product weight	Part no.	Type
	G3/8	0.5 ... 12 bar	Fully automatic	40 µm	1,700 g	**8233038**	**MSB6-3/8:J2:F3-WP**
	G1/2		Manually rotating			**8233023**	**MSB6-1/2:J1:F3-WP**
	G3/4				2,070 g	**8233042**	**MSB6-AGE:J1:F3-WP**

Ordering data – Combination 9

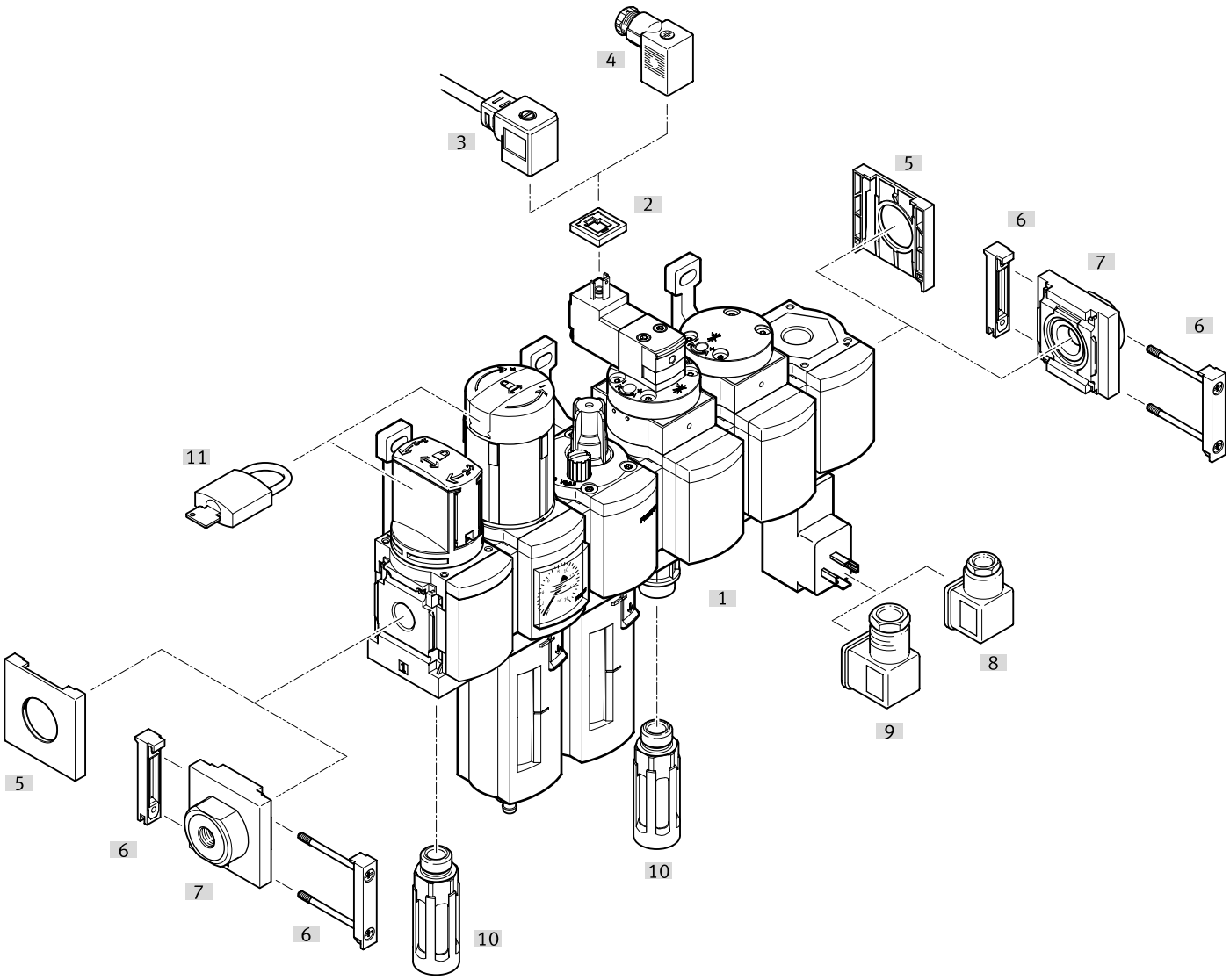
	Pneumatic connection, port 1	Pressure regulation range	Condensate drain	Grade of filtration	Product weight	Part no.	Type
	G1/4	0.5 ... 12 bar	Fully automatic	40 µm	1,560 g	**8233031**	**MSB6-1/4:J2:M1-WP**
	G3/8					**8233039**	**MSB6-3/8:J2:M1-WP**
	G1/2	0.1 ... 7 bar				**8233027**	**MSB6-1/2:J121:M1-WP**
			Manually rotating			**8233026**	**MSB6-1/2:J120:M1-WP**
		0.5 ... 12 bar	Fully automatic	5 µm	1,510 g	**8233028**	**MSB6-1/2:J4:M1**
			Manually rotating	40 µm	1,560 g	**8233024**	**MSB6-1/2:J1:M1-WP**
	G3/4	0.1 ... 7 bar	Fully automatic		1,930 g	**8233045**	**MSB6-AGE:J121:M1-WP**
		0.5 ... 12 bar			1,900 g	**8233046**	**MSB6-AGE:J2:M1**
					1,930 g	**8233047**	**MSB6-AGE:J2:M1-WP**
			Manually rotating		1,900 g	**8233043**	**MSB6-AGE:J1:M1**
					1,930 g	**8233044**	**MSB6-AGE:J1:M1-WP**
	G1	0.1 ... 7 bar	Fully automatic			**8233050**	**MSB6-AGF:J121:M1-WP**
			Manually rotating			**8233049**	**MSB6-AGF:J120:M1-WP**
		0.5 ... 12 bar	Fully automatic			**8233051**	**MSB6-AGF:J2:M1-WP**
			Manually rotating			**8233048**	**MSB6-AGF:J1:M1-WP**

Ordering data – Modular product system

	Short type code	Part no.	Type
	MSB6	**531030**	**MSB6**

Peripherals

Peripherals overview



Accessories			→ Link
	Type/order code	Description	
[1]	Service unit combination MSB6	Illustration using MSB4 as an example	msb6
[2]	Illuminating seal MEB-LD		33
[3]	Plug socket with cable KMEB		33
[4]	Plug socket MSSD-EB		33
[5]	Cover cap MS6-END		32
[6]	Module connector MS6-MV1		32
[7]	Connecting plate SET MS6-AG...	Order code [AG...]	32
[8]	Plug socket MSSD-C-4P		33
[9]	Angled plug socket PEV-1/4-WD-LED		32
[10]	Silencer U		32
[11]	Padlock LRVS-D		34
[12]	Mounting bracket MS6-WP...	Order code [WP...] (not shown)	34

Accessories

Cover cap MS6-END

	Size	Part no.	Type
	6	**538780**	**MS6-END**

Connecting plate-SET MS6-AG...

	Size	Pneumatic connection, port 1	Part no.	Type
	6	G1/4	**526080**	**MS6-AGB**
			541538	**MS6-AGB-EX**
		G3/8	**526081**	**MS6-AGC**
			541539	**MS6-AGC-EX**
		G1/2	**526082**	**MS6-AGD**
			541540	**MS6-AGD-EX**
		G3/4	**526083**	**MS6-AGE**
			541541	**MS6-AGE-EX**
		G1	**8212070**	**MS6-AGF**

Module connector MS6-MV1

	Size	Product weight	Part no.	Type
	6	33 g	**8119204**	**MS6-MV1**

Silencer U

	Pneumatic connection	Sound pressure level	Part no.	Type
	G1/2	81 dB(A)	**6844**	**U-1/2-B**
		82 dB(A)	**2310**	**U-1/2**
		88 dB(A)	**1205863**	**AMTE-M-LH-G12**

Angled plug socket PEV-1/4-WD-LED- ...

	Electrical connection 1, used connections/cores	Switching status indication	Operational voltage range AC	Operational voltage range DC	Part no.	Type
	4	Yellow LED, Green LED		15 ... 30 V	**164274**	**PEV-1/4-WD-LED-24**
			150 ... 230 V	140 ... 180 V	**164275**	**PEV-1/4-WD-LED-230**

Accessories

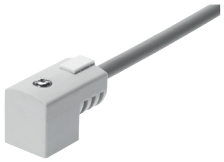
Plug socket MSSD-C-4P

	Electrical connection	Cable fitting	Cable diameter	Product weight	Part no.	Type
	3-pin, Angled socket, Type A, To DIN EN 175301-803, Square design MSC, Square design MSN1	Pg 9	6 ... 8 mm	22 g	**171157**	**MSSD-C-4P**

Plug socket with cable KMEB 230V AC

	Nominal operating voltage AC	Electrical connection 2, number of connections/ cores	Cable length	Part no.	Type
	230 V	3	2.5 m	**151690**	**KMEB-1-230AC-2.5**
			5 m	**151691**	**KMEB-1-230AC-5**

Plug socket with cable KMEB 24V DC

	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**

Plug socket MSSD-EB

	Electrical connection	Cable fitting	Part no.	Type
		M12x1.5	**570367**	**MSSD-EB-M12-24VDC-SD-EX**
		Pg7	**539712**	**MSSD-EB-M12**
	3-pin, Socket, Angled socket, Type C, To DIN EN 175301-803, To DIN EN 61984, Square design MSEB, Square design MSN2		**151687**	**MSSD-EB**

Illuminating seal MEB-LD

	Operational voltage range DC	Nominal operating voltage AC	Part no.	Type
		230 V	**151718**	**MEB-LD-230AC**
	12 ... 24 V		**151717**	**MEB-LD-12-24DC**

Accessories

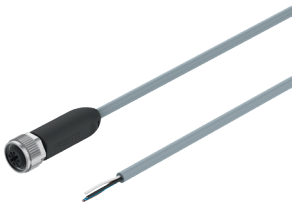
Padlock LRVS-D

	Short type code	Product weight	Part no.	Type
	LRVS-D	120 g	**193786**	**LRVS-D**

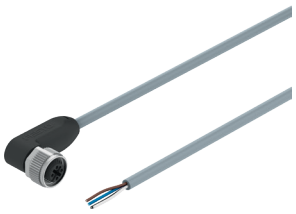
Mounting bracket MS6-WP...

	Size	Part no.	Type
	6	**532195**	**MS6-WP**
		532186	**MS6-WPM-2D**
		526073	**MS6-WPM-D**
		526074	**MS6-WPB**
		541542	**MS6-WPB-EX**
		541544	**MS6-WP-EX**

Connecting cables NEBA, straight

	Electrical connection 1, connector system	Electrical connection 2, connector system	Electrical connection 2, number of connections/ cores	Cable length	Part no.	Type
	M12x1, A-coded to EN 61076-2-101	Open end	4	2.5 m	**8078239**	**NEBA-M12G5-U-2.5-N-LE4**
				5 m	**8078240**	**NEBA-M12G5-U-5-N-LE4**
	M8x1, A-coded, to EN 61076-2-104		3	2.5 m	**8078223**	**NEBA-M8G3-U-2.5-N-LE3**
				5 m	**8078224**	**NEBA-M8G3-U-5-N-LE3**

Connecting cables NEBA, angled

	Electrical connection 1, connector system	Electrical connection 2, connector system	Electrical connection 2, number of connections/ cores	Cable length	Part no.	Type
	M12x1, A-coded to EN 61076-2-101	Open end	4	2.5 m	**8078248**	**NEBA-M12W5-U-2.5-N-LE4**
				5 m	**8078249**	**NEBA-M12W5-U-5-N-LE4**
	M8x1, A-coded, to EN 61076-2-104		3	2.5 m	**8078230**	**NEBA-M8W3-U-2.5-N-LE3**
				5 m	**8078231**	**NEBA-M8W3-U-5-N-LE3**

Filter cartridge MS-LFP

	Size	Grade of filtration	Material filter	LABS (PWIS) conformity	Part no.	Type
	6	5 µm	PE	VDMA24364-B1/ B2-L	**534499**	**MS6-LFP-C**

Accessories

Filter cartridge MS-LFP

	Size	Grade of filtration	Material filter	LABS (PWIS) conformity	Part no.	Type
	6	40 µm	PE	VDMA24364-B1/B2-L	**534500**	**MS6-LFP-E**

Special oil OPSW-32 (1 litre)

	Short type code	Part no.	Type
	OFSW	**152811**	**OFSW-32**

Blanking plug

	Pneumatic connection, port 1	Type of mounting	Material blanking plug	Size of pack	Part no.	Type
	Male thread G1/2	Internal hexagon, size 10 mm	Galvanised steel	10	**3571**	**B-1/2**

Push-in fitting

	Design	Nominal size	Pneumatic connection, port 1	Size of pack	Part no.	Type
	Straight shape	13 mm	Male thread G1/2	1	**186105**	**QS-G1/2-16**
	L-shape				**186126**	**QSL-G1/2-16**

Tubing PUN-H

	Outside diameter	Colour	Material tubing	Packaging unit [m] [1]	Part no.	Type
	12 mm	Blue	TPE-U(PU)	Standard	**197387**	**PUN-H-12X2-BL**
		Natural			**197380**	**PUN-H-12X2-NT**
		Black			**197394**	**PUN-H-12X2-SW**
		Translucent blue		200 m	**8048712**	**PUN-H-12X2-TBL-200**
	16 mm	Blue		Standard	**197388**	**PUN-H-16X2,5-BL**
		Natural			**197381**	**PUN-H-16X2,5-NT**
		Black			**197395**	**PUN-H-16X2,5-SW**

1) Standard: 50 m