

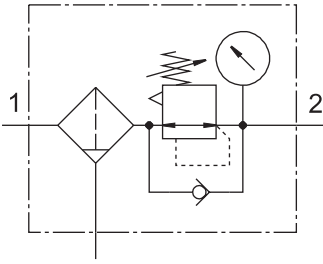
Filter regulator MS6-LFR-...-WR

FESTO



Characteristics

At a glance



Very compact series for use close to the process directly on the machine

These service unit components are configured with mounting components and display units specifically for the Indian market.

- Grid dimension: 62 mm
- Filter and pressure regulator are combined into one unit
- Good control characteristics with minimal pressure hysteresis and primary pressure compensation
- The regulated working pressure can also be reduced without a consuming device via the optional secondary venting.
- Return flow option for exhausting from output 2 to input 1 already integrated
- High flow rate
- Good particle and condensate separation

Diagrams

Link [ms6-lfr](#)



The diagrams shown in this document are also available online. These can be used to display precise values.

Function

- Directly actuated diaphragm control valve
- For stepless, precise adjustment of the required operating pressure
- The pressure regulator keeps the working pressure largely constant, irrespective of compressed air fluctuations in the network and due to air consumption

Grade of filtration

Grade of filtration of 5 µm or 40 µm can be selected.

Pressure gauge alternatives

[AD13] Pressure sensor (SPAN-B) with LCD display, cable 2.5 m OE, 4-pin, PNP, NPN

[PAGN] Pressure gauge PAGN-40-16-G18



The pressure sensor SPAN is suitable for monitoring compressed air and non-corrosive gases. The sensor can be used in many industries thanks to its compact design. The measurement method is based on a piezoresistive measuring cell for relative pressure measurement. The pressure value is transmitted to the connected controller as a switching signal, as an analogue signal or via IO-Link® depending on the sensor variant and the selected parameters.

Monitoring and setting a pressure threshold, a pressure range or a monitoring a differential pressure using a teach-in function or by entering values.

Operating pressure: 16 bar

Characteristics

Type of mounting

[WR] Mounting bracket with knurled nut on regulator knob



- For wall mounting an individual device

Type code

001	Series	
MS6	MS-series, size 6	
002	Function	
LFR	Filter regulator	
003	Pneumatic connection	
1/2	Female thread G1/2	
004	Pressure regulation range	
D7	0.5 ... 12 bar	
005	Filter design	
C	5 µm	
E	40 µm	

006	Bowl	
R	Plastic bowl with plastic bowl guard	
007	Condensate drain	
M	Manually	
008	Pressure gauge alternatives	
AD13	Pressure sensor (SPAN-B) with LCD display, cable 2.5 m OE, 4-pin, PNP, NPN	
PAGN	Pressure gauge PAGN-40-16-G18	
009	Lockability	
AS	Can be locked using accessories	
010	Type of mounting	
WR	Mounting bracket with knurled nut on regulator knob	

Datasheet

General technical data				
Grade of filtration	5 µm		40 µm	
Pressure regulation range	0.05 ... 1.2 MPa	0.05 ... 1 MPa	0.05 ... 1.2 MPa	0.05 ... 1 MPa
Pressure regulation range	0.5 ... 12 bar	0.5 ... 10 bar	0.5 ... 12 bar	0.5 ... 10 bar
Pressure regulation range	7.25 ... 174 psi	7.25 ... 145 psi	7.25 ... 174 psi	7.25 ... 145 psi
Pneumatic connection, port 1	G1/2			
Pneumatic connection, port 2	G1/2			
Size	6			
Design	Filter regulator without pressure gauge			
Controller function	Output pressure constant, With secondary venting, With return flow function			
Type of mounting	Either:, Front panel mounting, In-line installation, With accessories			
Mounting position	Vertical +/-5°			
Pore size	<5 µm		<40 µm	
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]	
Bowl guard	Plastic bowl guard			
Condensate drain	Manually rotating			
Degree of condensate separation	>75%			
Actuator lock	Rotary knob with detent, can be closed with accessories			
Max. pressure hysteresis	0.25 bar			
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	Prepared for G1/8			
Max. condensate volume	38 ml			

Standard nominal flow rate q _N		
Grade of filtration	5 µm	40 µm
Standard nominal flow rate (standardised to DIN 1343)	4,000 l/min	4,500 l/min

Operating and environmental conditions	
Operating pressure	0.08 ... 2 MPa
Operating pressure	0.8 ... 20 bar
Operating pressure	11.6 ... 290 psi
Operating medium	Compressed air to ISO 8573-1:2010 [-:4:-], Inert gas
Ambient temperature	-10 ... 60°C
Media temperature	-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

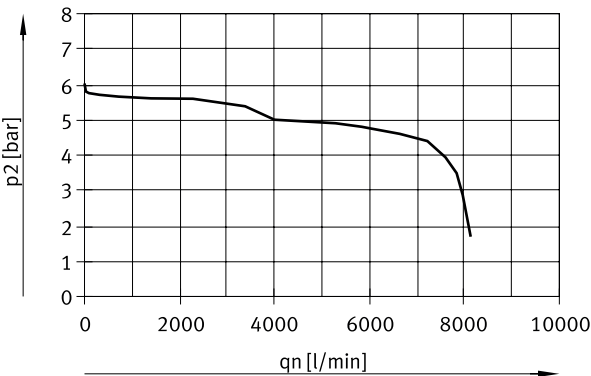
1) More information www.festo.com/x/topic/crc

2) More information www.festo.com/catalogue/ms-lfr → Support/Downloads.

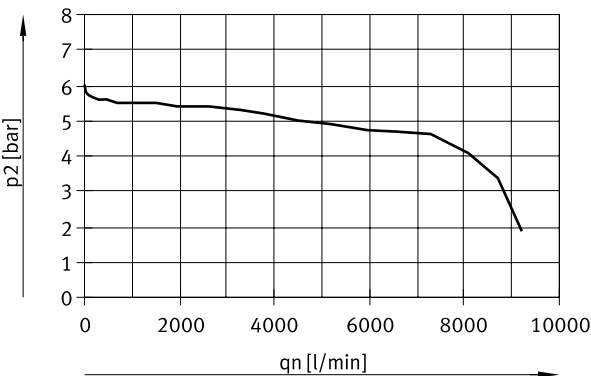
Materials	
Material housing	Die-cast aluminium
Material bowl	PC
Material filter	PE
Material seals	NBR
Material membrane	NBR
Material separating plate	POM
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Datasheet

Standard flow rate q_n as a function of output pressure p_2 ($p_1 = 10\text{ bar}$) – MS6-LFR-1/2-D7-C-..., pressure regulation range 0.5 ... 12 bar, grade of filtration 5 μm



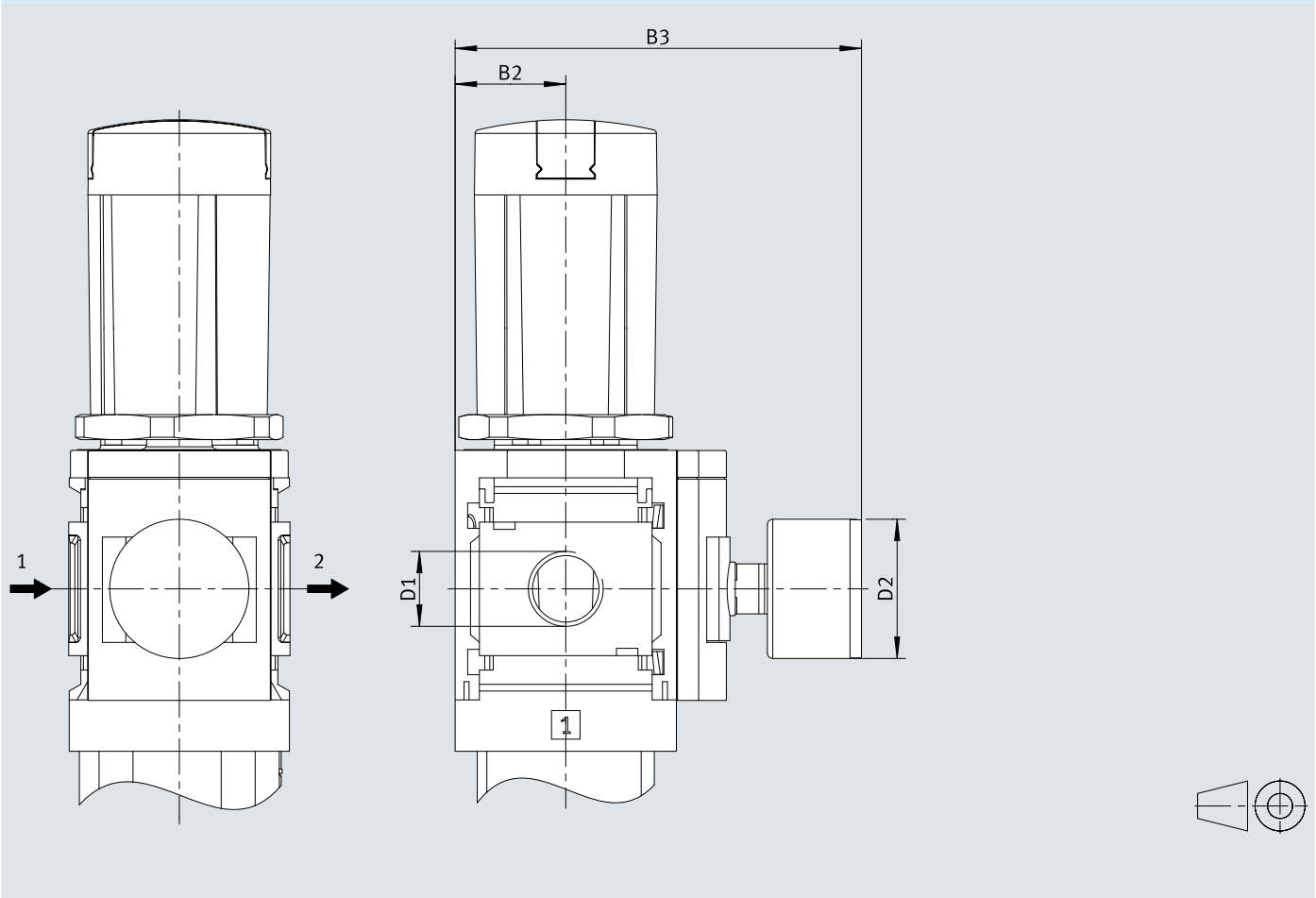
Standard flow rate q_n as a function of output pressure p_2 ($p_1 = 10\text{ bar}$) – MS6-LFR-1/2-D7-E-..., pressure regulation range 0.5 ... 12 bar, grade of filtration 40 μm



Dimensions

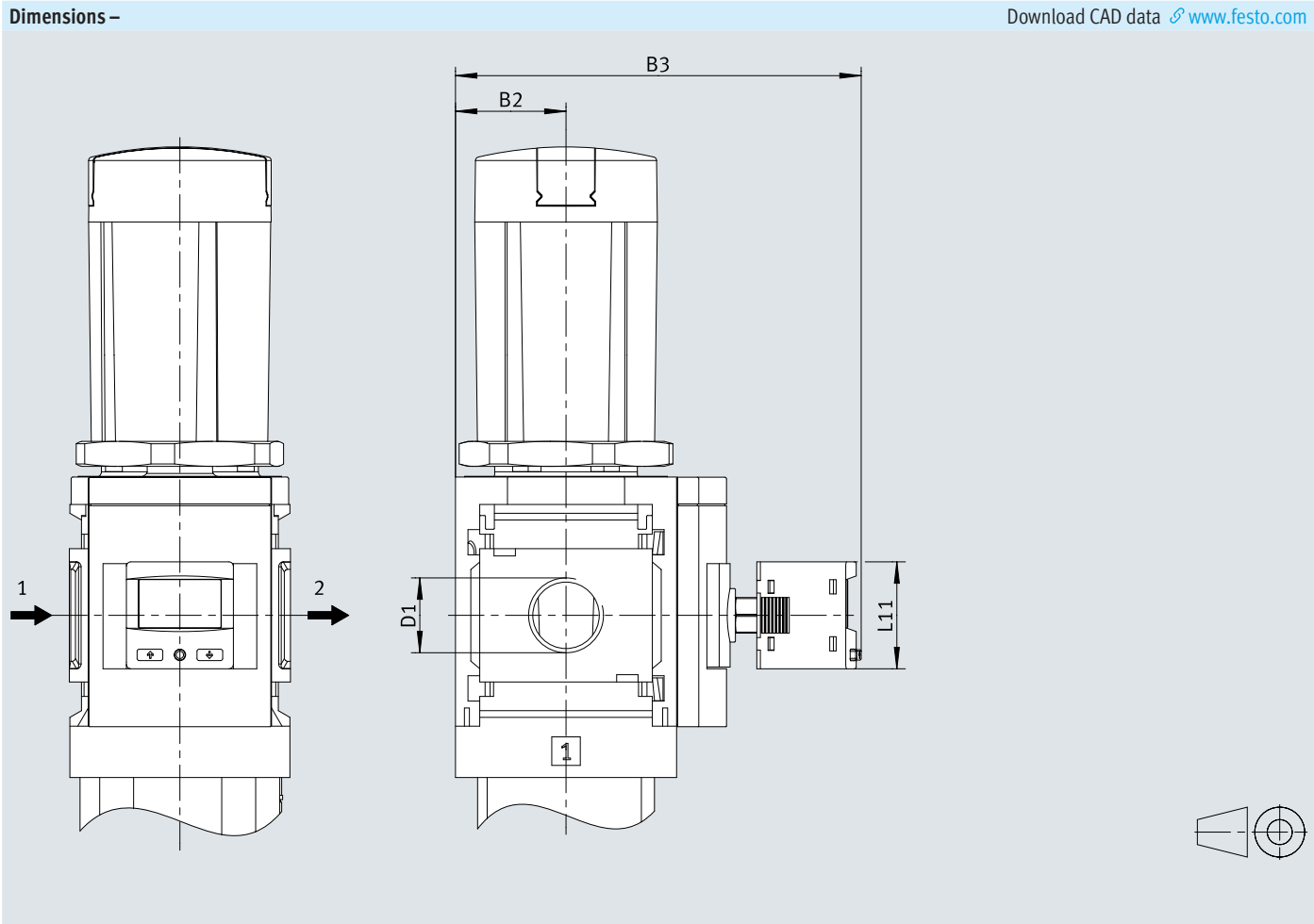
Dimensions –

Download CAD data www.festo.com



	B2	B3	D1	D2 Ø
MS6-LFR-1/2-D7-E-R-M-PAGN-AS-WR	31	114	G1/2	39
MS6-LFR-1/2-D7-C-R-M-PAGN-AS-WR				

Dimensions



	B2	B3	D1	L11
MS6-LFR-1/2-D7-E-R-M-AD13-AS-WR	31	114	G1/2	30
MS6-LFR-1/2-D7-C-R-M-AD13-AS-WR				

Ordering data

Ordering data – with pressure sensor (SPAN-B)

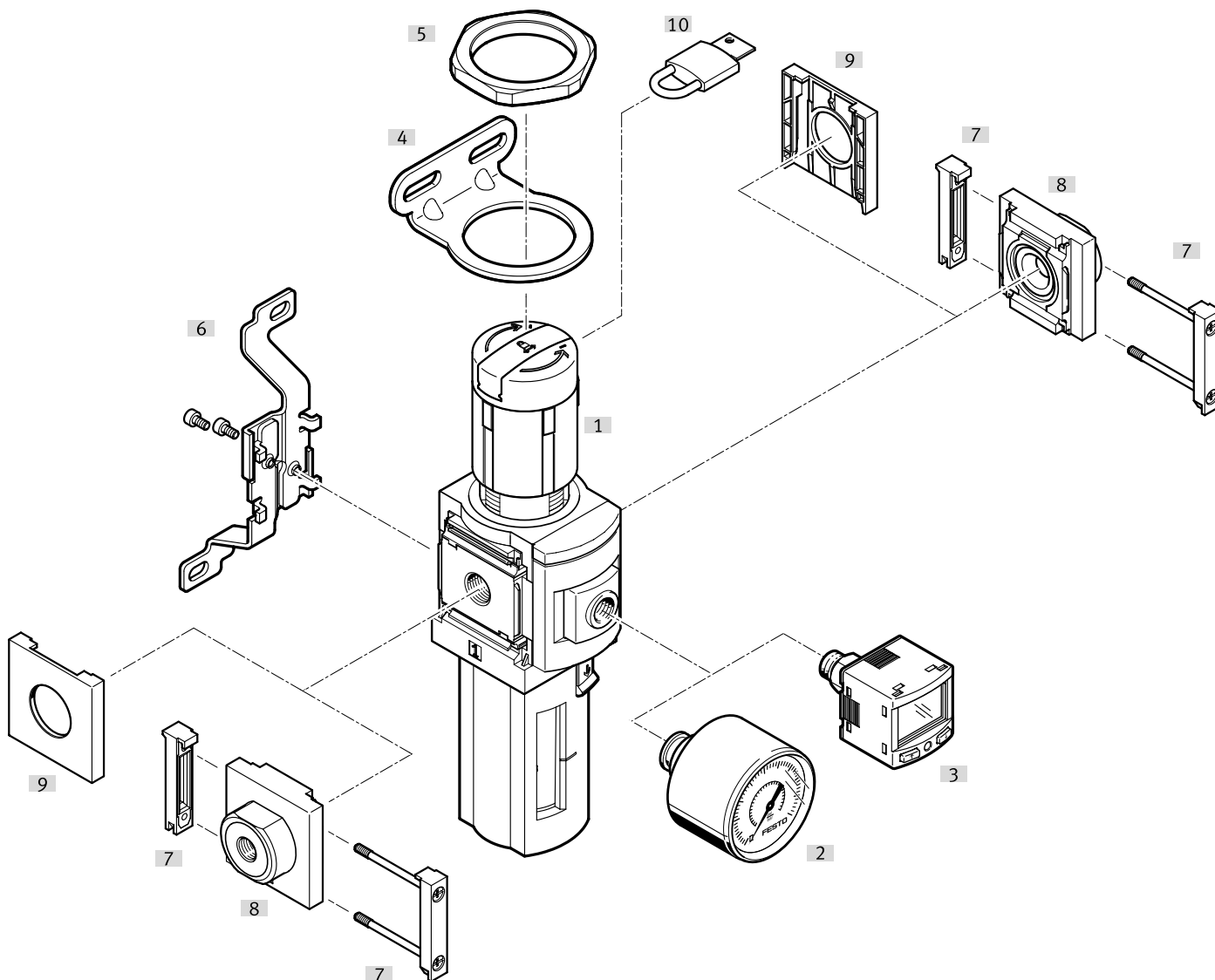
	Pneumatic connection, port 1	Grade of filtration	Pressure regulation range	Product weight	Part no.	Type
	G1/2	5 µm	0.5 ... 10 bar	875 g	8229781	MS6-LFR-1/2-D7-C-R-M-AD13-AS-WR
		40 µm			8229780	MS6-LFR-1/2-D7-E-R-M-AD13-AS-WR

Ordering data – with pressure gauge (PAGN)

	Pneumatic connection, port 1	Grade of filtration	Pressure regulation range	Product weight	Part no.	Type
	G1/2	5 µm	0.5 ... 12 bar	875 g	8229782	MS6-LFR-1/2-D7-C-R-M-PAGN-AS-WR
		40 µm			8229783	MS6-LFR-1/2-D7-E-R-M-PAGN-AS-WR

Peripherals

Peripherals overview MS6



Accessories			→ Link
Type/order code	Description		
[1] Filter regulator MS6-LFR			ms6-lfr
[2] Pressure gauge PAGN	Included in the scope of delivery		ms6-lfr
[3] Pressure sensor SPAN	Included in the scope of delivery		ms6-lfr
[4] Mounting bracket MS6-WR	Included in the scope of delivery		11
[5] Hex nut MS6-WRS	Included in the scope of delivery		ms6-lfr
[6] Mounting bracket MS6-WB	For individual device		11
[7] Module connector MS6-MV1	For device combinations and individual devices with connecting plate		11
[8] Connecting plate SET MS6-AG...			12
[9] Cover cap MS6-END	For devices without connecting plate		11
[10] Padlock LRV-S-D			12
[11] Filter cartridge MS-LFP	No illustration		11

Accessories

Filter cartridge MS-LFP					
	Size	Grade of filtration	Part no.	Type	
	6	5 µm	534499	MS6-LFP-C	
		40 µm	534500	MS6-LFP-E	

Module connector MS6-MV1						
	Size	Material module connector	LABS (PWIS) conformity	Product weight	Part no.	Type
	6	POM, High-alloy stainless steel	VDMA24364-B1/B2-L	33 g	8119204	MS6-MV1

Mounting bracket MS6-WB						
	Size	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type
	6	Steel	VDMA24364-B1/B2-L	121 g	532196	MS6-WB

Mounting bracket MS6-WR						
	Size	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type
	6	Steel	VDMA24364-B1/B2-L	90 g	526075	MS6-WR

Cover cap MS6-END				Part no.	Type
	Size				
	6			538780	MS6-END

Accessories

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

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