

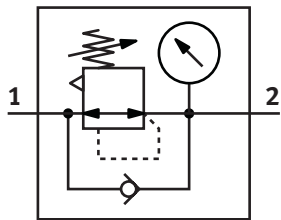
Pressure regulator MS6-LR-...-WR

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
- Good control characteristics with minimal pressure hysteresis and primary pressure compensation
- Return flow option for exhausting from output 2 to input 1 already integrated
- High flow rate with minimal pressure drop

Diagrams

[Link](#) [ms6-lr](#)



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

Function

- 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

Pressure gauge alternatives

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



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.

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



Operating pressure: 16 bar

Type of mounting

[WP] Mounting bracket basic design



- For wall mounting an individual device

Type code

001	Series	
MS6	MS-series, size 6	
002	Function	
LR	Pressure regulator	
003	Pneumatic connection	
1/2	Female thread G1/2	
004	Pressure range/actuation	
D7	0.5 ... 12 bar, manually actuated	

005	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	
006	Lockability	
AS	Can be locked using accessories	
007	Type of mounting	
WR	Mounting bracket with knurled nut on regulator knob	

Datasheet

General technical data

Pressure regulation range	0.5 ... 12 bar	0.5 ... 10 bar
Pneumatic connection, port 1	G1/2	
Pneumatic connection, port 2	G1/2	
Size	6	
Design	Pressure regulator without pressure gauge	
Controller function	Output pressure constant, With secondary exhausting, With return flow function	
Type of mounting	Either: Front panel mounting Inline installation With accessories	
Mounting position	Any	
Actuator lock	Rotary knob with detent, can be closed with accessories	
Max. pressure hysteresis	0.25 bar	
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	With pressure gauge	

Standard nominal flow rate q_{nN}

Standard nominal flow rate (standardised to DIN 1343)	5,500 l/min
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Operating and environmental conditions

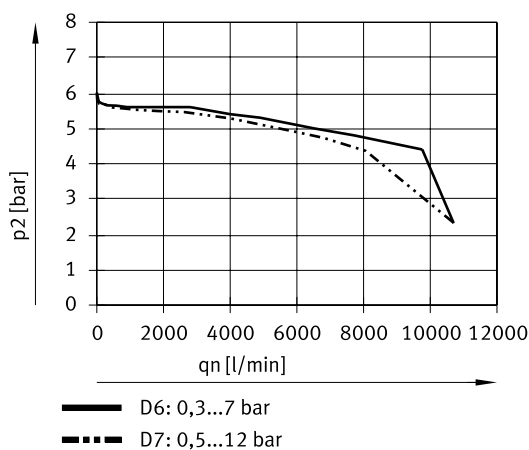
Operating pressure	0.08 ... 2 MPa
Operating pressure	0.8 ... 20 bar
Operating pressure	11.6 ... 290 psi
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4], Inert gas
Ambient temperature	-10 ... 60°C
Media temperature	-10 ... 60°C
Storage temperature	-10 ... 60°C
Corrosion resistance class CRC 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-lr → Support/Downloads.

Materials

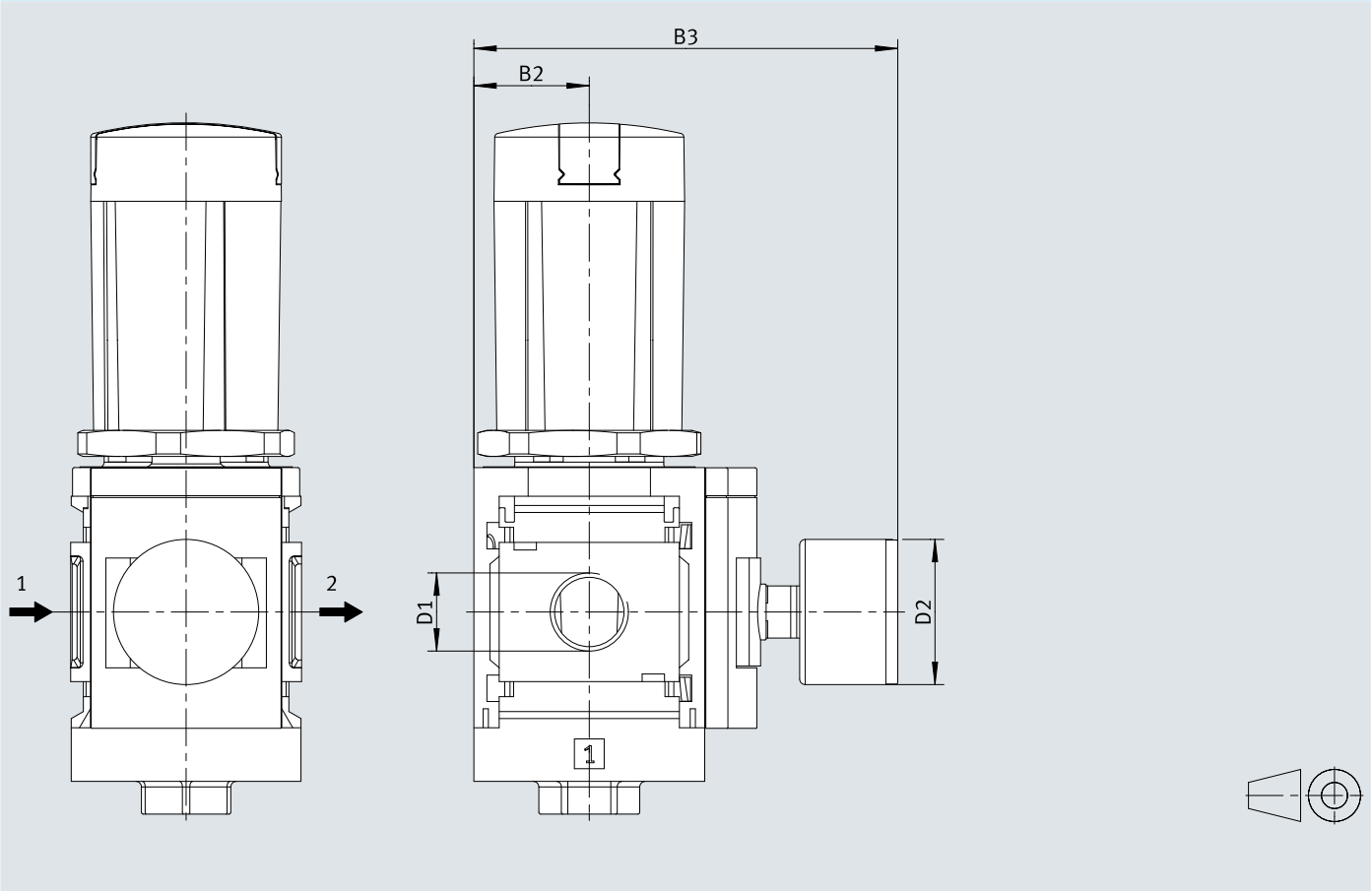
Material housing	Die-cast aluminium
Material membrane	NBR
Material seals	NBR
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Standard flow rate q_n as a function of output pressure p_2 ($p_1 = 10$ bar) for MS6-LR-1/2-D6/D7-...

Dimensions

Dimensions – MS6-LR-...-PAGN-AS-WR

Download CAD data www.festo.com

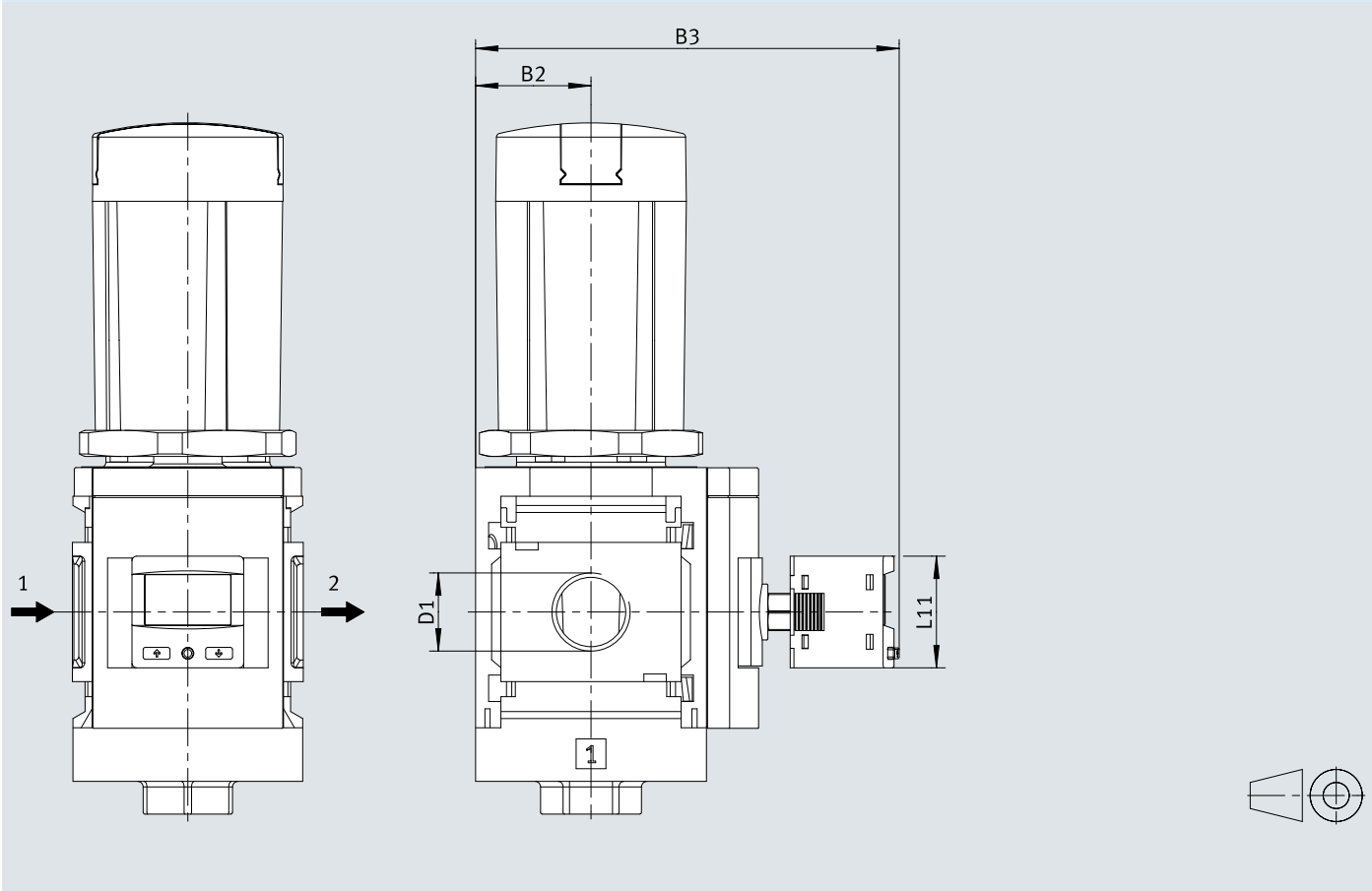


	B2	B3	D1	D2 Ø
MS6-LR-1/2-D7-PAGN-AS-WR	31	114	G1/2	39

1) Standard scale

Dimensions

Dimensions – MS6-LR-...-AD13-AS-WR Download CAD data www.festo.com



	B2	B3	D1	L11
MS6-LR-1/2-D7-AD13-AS-WR	31	114	G1/2	30

1) Standard scale

Ordering data

Ordering data



Pneumatic connection, port 1	Pneumatic connection, port 2	Pressure regulation range	Product weight	Part no.	Type
G1/2	G1/2	0.5 ... 10 bar	730 g	8229708	MS6-LR-1/2-D7-AD13-AS-WR

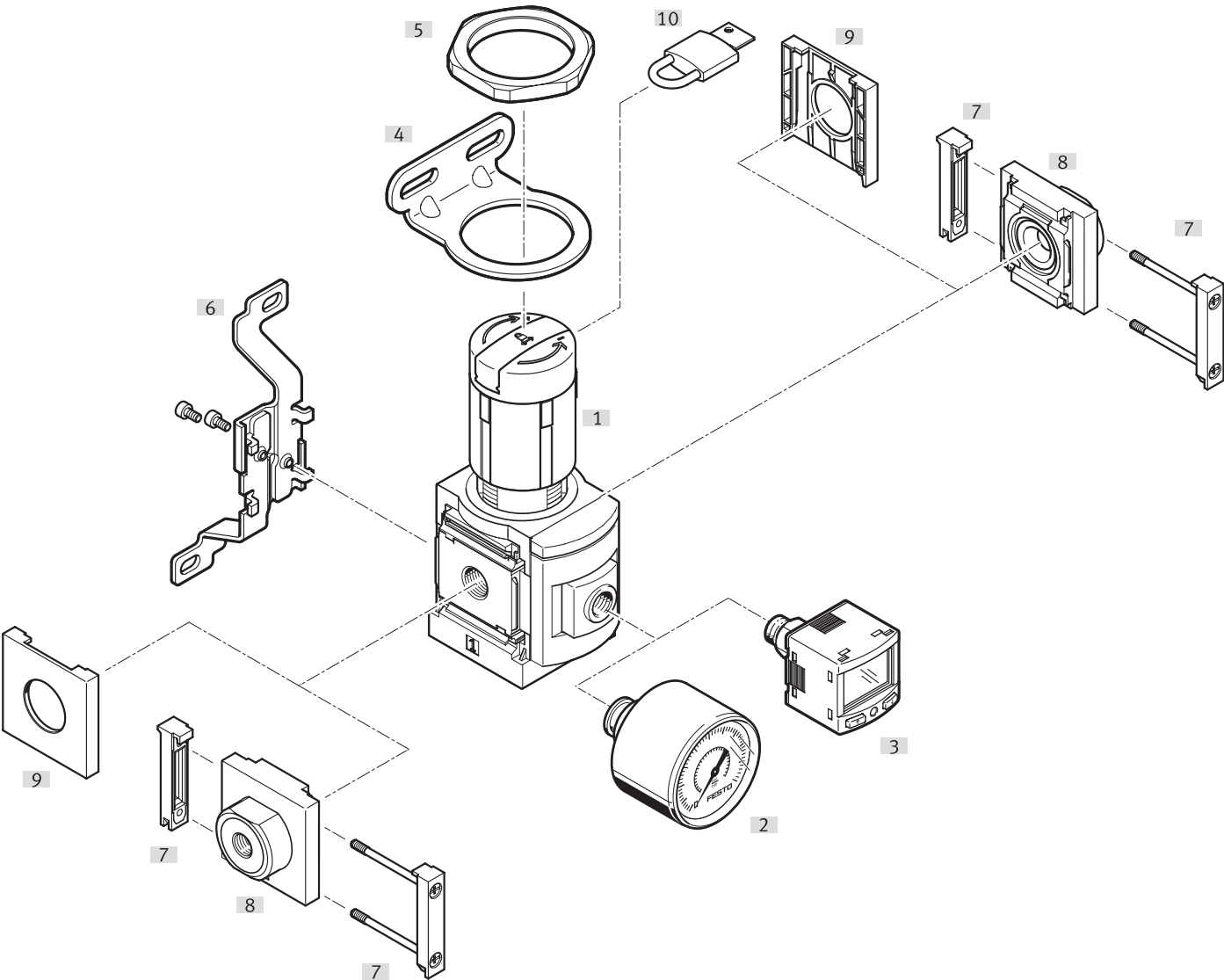
Ordering data



Pneumatic connection, port 1	Pneumatic connection, port 2	Pressure regulation range	Product weight	Part no.	Type
G1/2	G1/2	0.5 ... 12 bar	730 g	8229706	MS6-LR-1/2-D7-PAGN-AS-WR

Peripherals

Peripherals overview MS6



Accessories			→ Link
Type/order code	Description		
[1]	Pressure regulator MS6-LR	Illustration based on the MS4-LR as an example	ms6-lr
[2]	Pressure gauge PAGN	Included in the scope of delivery	ms6-lr
[3]	Pressure sensor SPAN	Included in the scope of delivery	ms6-lr
[4]	Mounting bracket MS6-WR	Included in the scope of delivery	9
[5]	Hex nut MS6-WRS	Included in the scope of delivery	ms6-lr
[6]	Mounting bracket MS6-WB	For individual device	9
[7]	Module connector MS6-MV1	For device combinations and individual devices with connecting plate	9
[8]	Connecting plate SET MS6-AG...		9
[9]	Cover cap MS6-END	For devices without connecting plate	9
[10]	Padlock LRVS-D		10

Accessories

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



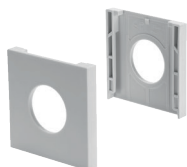
Size	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type
6	Steel	VDMA24364-B1/B2-L	121 g	532196	MS6-WB

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



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

Accessories

Padlock LRVS-D



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