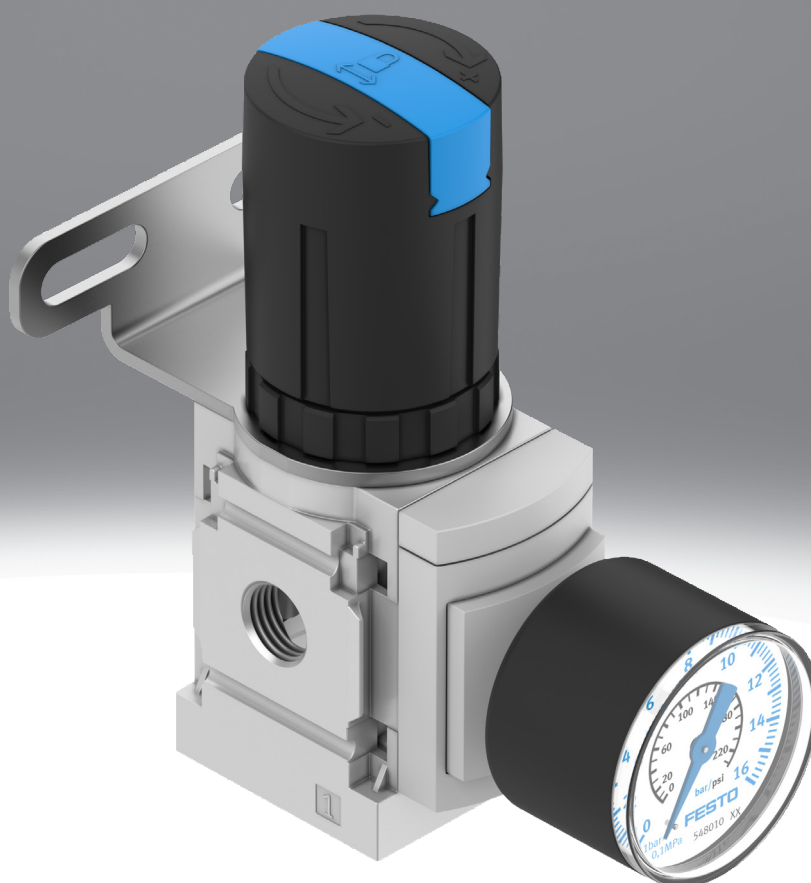


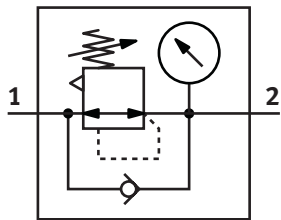
Pressure regulator MS4-LR-...-WR

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: 40 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](#) [ms4-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	
MS4	MS series, size 4	
002	Function	
LR	Pressure regulator	
003	Pneumatic connection	
1/8	Female thread G1/8	
1/4	Female thread G1/4	
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	G1/8	G1/4	G1/8	G1/4
Pneumatic connection, port 2	G1/8	G1/4	G1/8	G1/4
Size	4			
Design	Directly actuated diaphragm regulator			
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	optional			
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 G1/4			

Standard nominal flow rate q_N

Pneumatic connection, port 1	G1/8	G1/4
Standard nominal flow rate (standardised to DIN 1343)	1,000 l/min	1,700 l/min

Operating and environmental conditions

Operating pressure	0.08 ... 1.4 MPa
Operating pressure	0.8 ... 14 bar
Operating pressure	11.6 ... 203 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

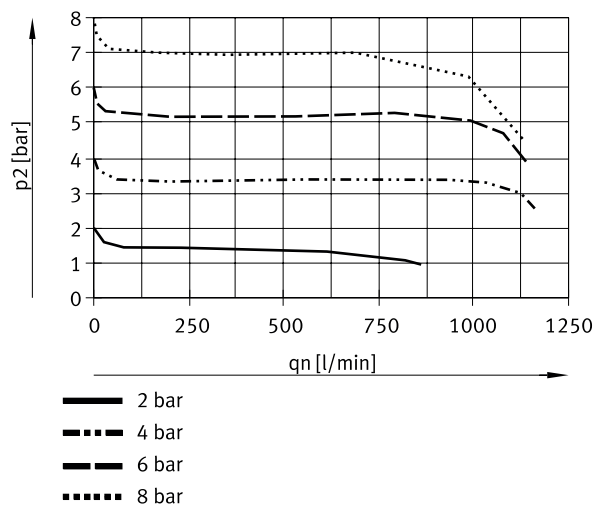
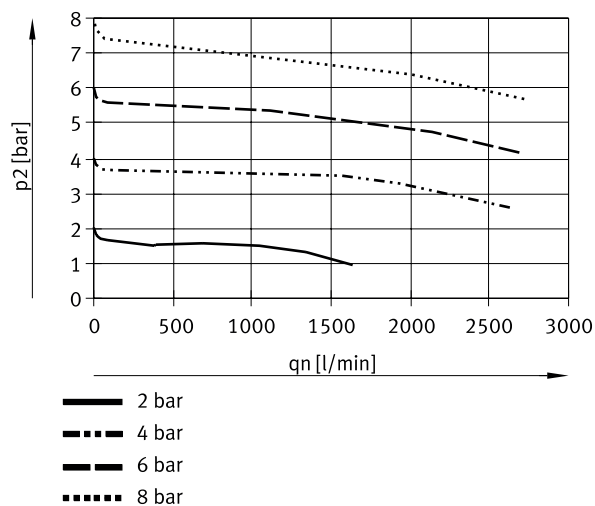
1) More information www.festo.com/x/topic/crc

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

Materials

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

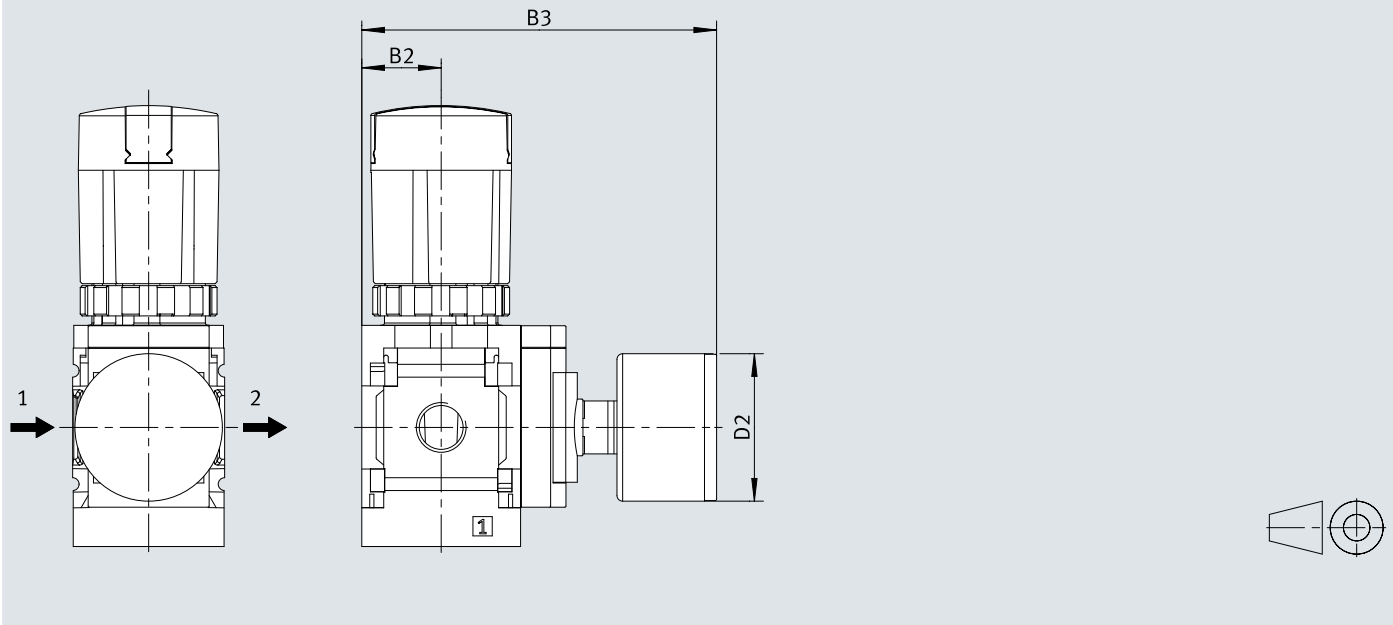
Datasheet

Standard flow rate q_n as a function of output pressure p_2 ($p_1 = 10$ bar) – MS4-LR-1/8-D7-.. (0.5 ... 12 bar)Standard flow rate q_n as a function of output pressure p_2 ($p_1 = 10$ bar) – MS4-LR-1/4-D7-.. (0.5 ... 12 bar)

Dimensions

Dimensions – Basic type Integrated MS pressure gauge with standard scale / with red/green scale

Download CAD data www.festo.com



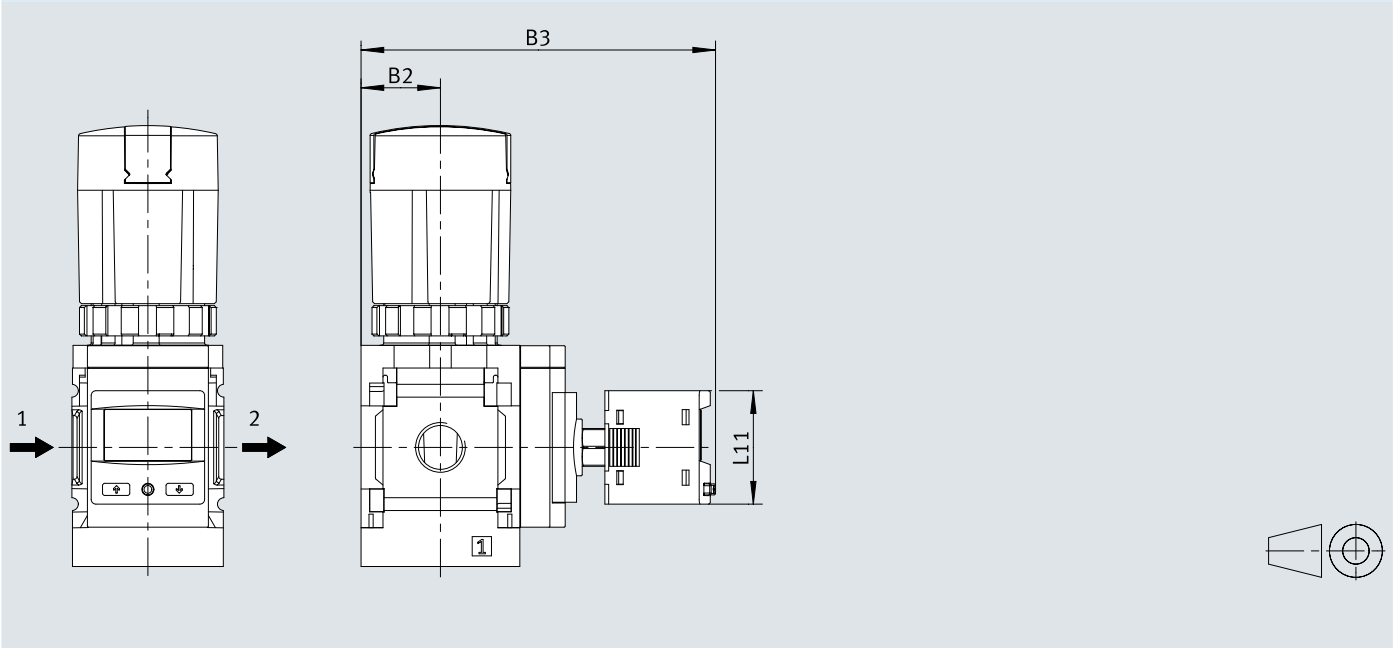
	B2	B3	D1	D2 Ø
MS4-LR-1/8-D7-PAGN-AS-WR	21	94	G1/8	39
MS4-LR-1/4-D7-PAGN-AS-WR			G1/4	

1) Standard scale

Dimensions

Dimensions – Alternative mounting position, rotary knob underneath

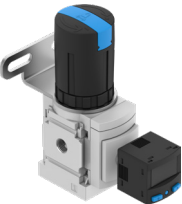
Download CAD data www.festo.com



	B2	B3	D1	L11
MS4-LR-1/8-D7-AD13-AS-WR	21	94	G1/8	39
MS4-LR-1/4-D7-AD13-AS-WR			G1/4	

1) Standard scale

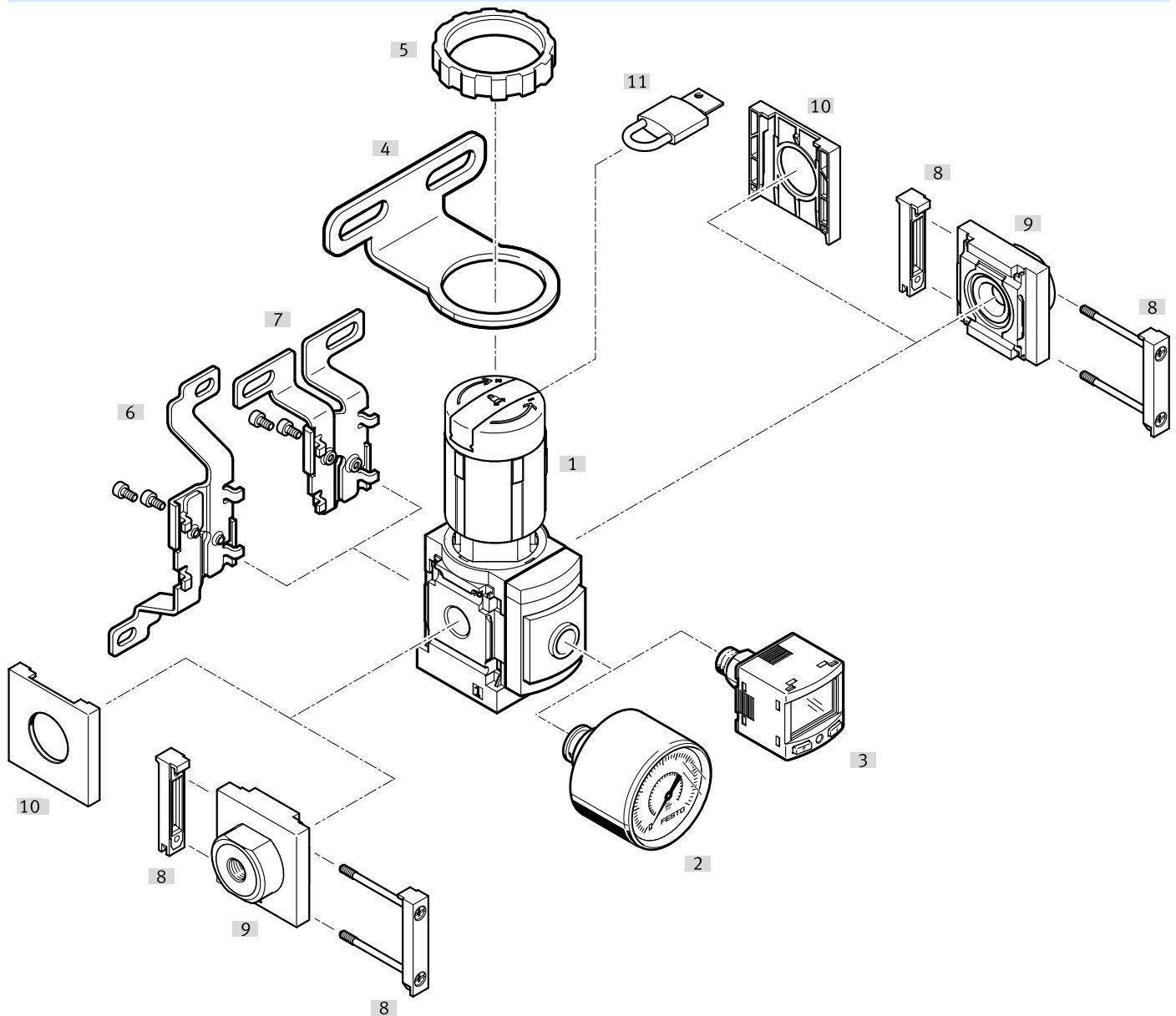
Ordering data

Ordering data						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Pressure regulation range	Product weight	Part no.	Type
	G1/8	G1/8	0.5 ... 10 bar	225 g	8229689	MS4-LR-1/8-D7-AD13-AS-WR
	G1/4	G1/4			8229690	MS4-LR-1/4-D7-AD13-AS-WR

Ordering data						
	Pneumatic connection, port 1	Pneumatic connection, port 2	Pressure regulation range	Product weight	Part no.	Type
	G1/8	G1/8	0.5 ... 12 bar	225 g	8229687	MS4-LR-1/8-D7-PAGN-AS-WR
	G1/4	G1/4			8229573	MS4-LR-1/4-D7-PAGN-AS-WR

Peripherals

Peripherals overview MS4



Accessories		→ Link
Type/order code	Description	
[1] Pressure regulator MS4-LR		ms4-lr
[2] Pressure gauge PAGN	Included in the scope of delivery	ms4-lr
[3] Pressure sensor SPAN	Included in the scope of delivery	ms4-lr
[4] Mounting bracket MS4-WR	Included in the scope of delivery	10
[5] Hex nut MS4-WRS		ms4-lr
[6] Mounting bracket MS4-WB	For a single device	10
[7] Mounting bracket MS4-WBM	For a single device	10
[8] Module connector MS4-MV1	For device combinations and individual devices with connecting plate	10
[9] Connecting plate SET MS4-AG...		11
[10] Cover cap MS4-END	For devices without connecting plate	10
[11] Padlock LRV5-D		11

Accessories

Module connector MS4-MV1

	Size	Material module connector	LABS (PWIS) conformity	Product weight	Part no.	Type
	4	POM, High-alloy stainless steel	VDMA24364-B1/B2-L	13 g	8119201	MS4-MV1

Mounting bracket MS4-WB

	Size	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type
	4	Steel	VDMA24364-B1/B2-L	46 g	532185	MS4-WB

Mounting bracket MS4-WBM

	Size	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type
	4	Steel	VDMA24364-B1/B2-L	48 g	526062	MS4-WBM

Mounting bracket MS4-WR

	Size	Material bracket	LABS (PWIS) conformity	Product weight	Part no.	Type
	4	Steel	VDMA24364-B1/B2-L	49 g	526064	MS4-WR

Cover cap MS4-END

	Size	Part no.	Type
	4	538779	MS4-END

Accessories

Connecting plate-SET MS4-AG...				
	Size	Pneumatic connection, port 1	Part no.	Type
	4	G1/8	526068	MS4-AGA
			541549	MS4-AGA-EX
		G1/4	526069	MS4-AGB
			541550	MS4-AGB-EX
		G3/8	526070	MS4-AGC
			541551	MS4-AGC-EX

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