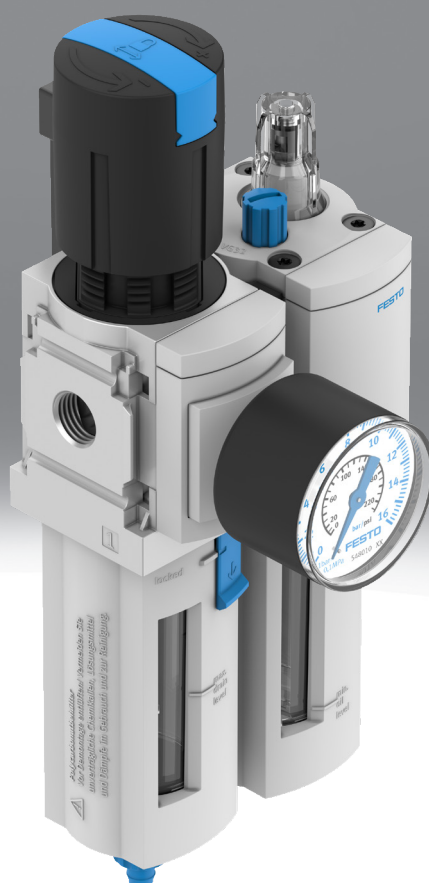


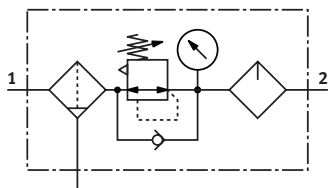
Service unit MSB4-FRC...-WP

FESTO



Characteristics

At a glance



Combination of filter regulator and lubricator.

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

- Grid dimension: 40 mm
- High flow rate and extremely efficient in removing contaminants
- Good regulation characteristics with minimal pressure hysteresis
- Setting values are secured by locking the rotary knob
- Lockable rotary knob (with accessories)
- Choice of filter inserts 5 µm or 40 µm
- Product complies with ISO 1179-1 and ISO 228-1

Engineering tools

Link [pneumatic-supply-sizing](#)



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

Diagrams

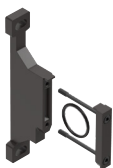
Link [msb4-frc](#)



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

Type of mounting

[WP] Mounting bracket basic design



- For connecting the modules for wall mounting

Type code

001	Series	
MSB	Service unit component MS series	
002	Size	
4	Grid dimension 40 mm	
003	Pneumatic connection	
1/8	Female thread G1/8	
1/4	Female thread G1/4	
004	Function	
FRC	Service unit combination	

005	Service unit component equipment	
J91	Filter regulator, 0.5 ... 12 bar, 40 µm, plastic bowl with plastic bowl guard, manual condensate drain, adapter for EN pressure gauge 1/8 (MS4), 1/4 (MS6), can be locked using accessories	
J93	Filter regulator, 0.5 ... 12 bar, 5 µm, plastic bowl with plastic bowl guard, manual condensate drain, adapter for EN pressure gauge 1/8 (MS4), 1/4 (MS6), can be locked using accessories	
M1	Lubricator, plastic bowl with plastic bowl guard	
PAGN		
006	Type of mounting	
WP	Mounting bracket basic design	
007	Flow direction	
	Flow direction from left to right	

Datasheet

General technical data

Grade of filtration	5	40
Pneumatic connection, port 1	G1/8, G1/4	
Pneumatic connection, port 2	G1/8, G1/4	
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	Via mounting bracket	
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	
Condensate drain	Manually rotating	
Actuator lock	Rotary knob with detent	
Pressure regulation range	0.5 ... 12 bar	
Pressure gauge (ANALOG) or Pressure display (DIGITAL)	With pressure gauge	

Standard nominal flow rate (measured at p₁ = 10 bar, p₂ = 6 bar and Δp = 1 bar)

Pneumatic connection, port 1	G1/8		G1/4	
Grade of filtration	5 μm	40 μm	5 μm	40 μm
Standard nominal flow rate (standardised to DIN 1343)	850 l/min	900 l/min	800 l/min	850 l/min

Operating and environmental conditions

Operating pressure	1.5 ... 14 bar
Operating medium	Compressed air to ISO 8573-1:2010 [-:4:-] Inert gas
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required), Compatibility with ester oil not guaranteed
Ambient temperature	-10 ... 60°C
Media temperature	-10 ... 60°C
Storage temperature	-10 ... 60°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress

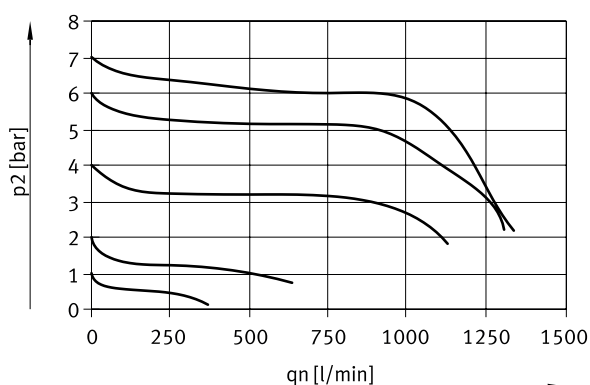
1) Further information www.festo.com/x/topic/crc

Weight

Product weight	540 g
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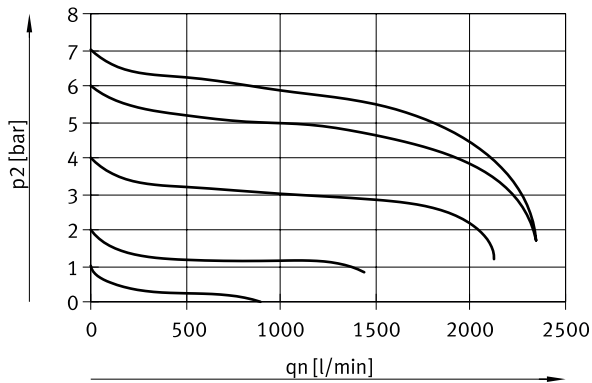
Materials

Material housing	Die-cast aluminium
Material bowl	PC
LABS (PWIS) conformity	VDMA24364-B1/B2-L

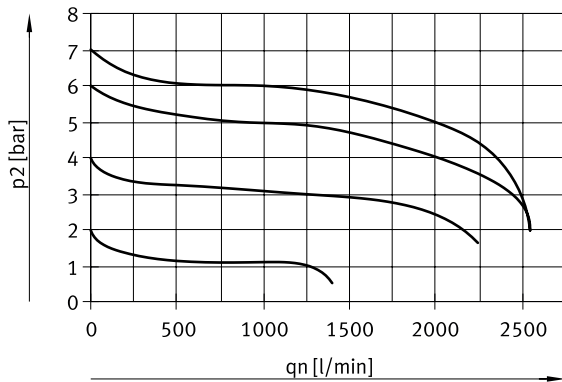
Standard flow rate q_n as a function of output pressure p₂ (MSB4-1/8; pressure regulation range 0.5 ... 12 bar; grade of filtration 40 μm)

Datasheet

Standard flow rate q_n as a function of output pressure p_2 (MSB4-1/4; pressure regulation range 0.5 ... 12 bar; grade of filtration 5 μm)



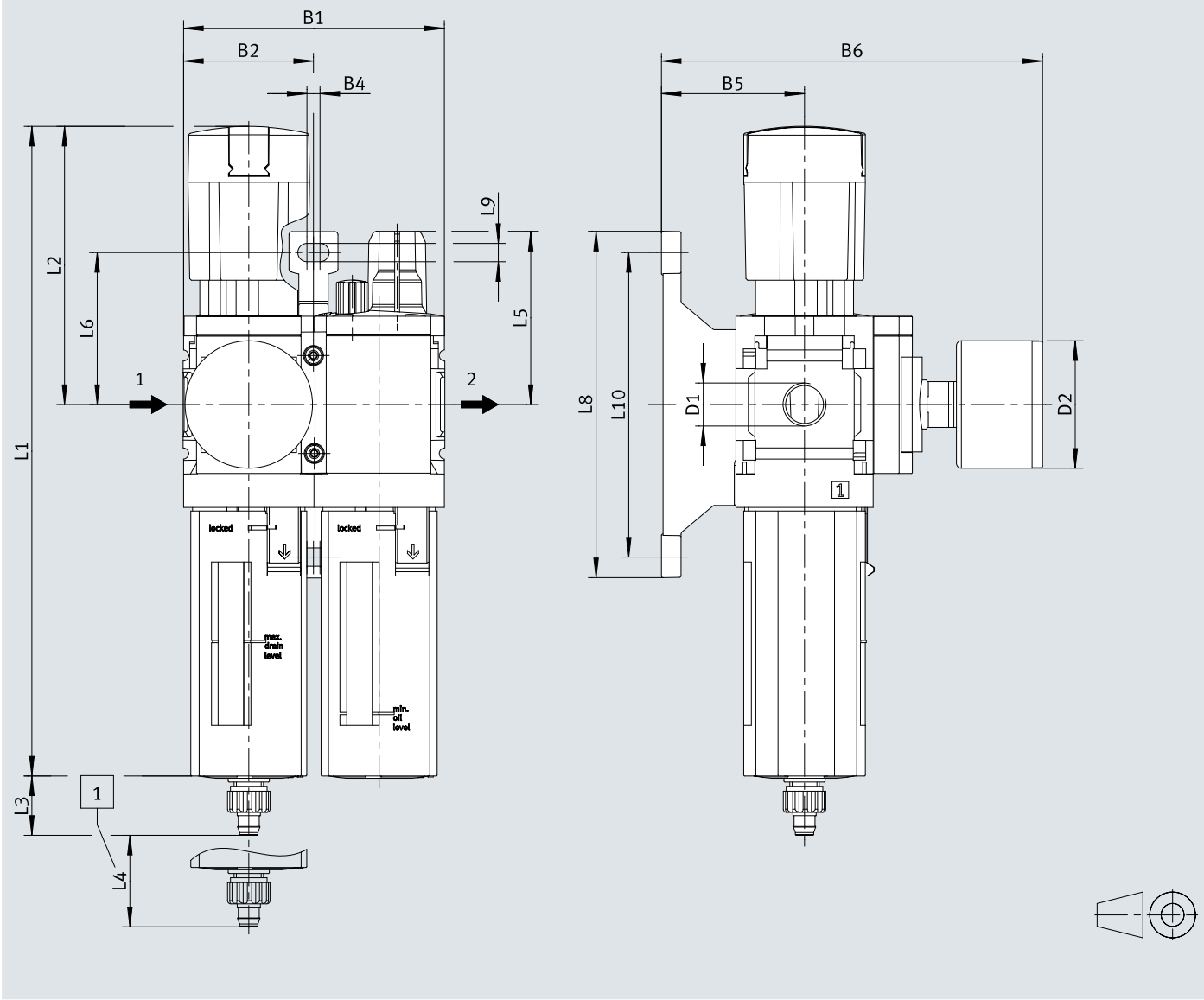
Standard flow rate q_n as a function of output pressure p_2 (MSB4-1/4; pressure regulation range 0.5 ... 12 bar; grade of filtration 40 μm)



Dimensions

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

Download CAD data www.festo.com



	B1	B2	B4	B5	B6	D1	D2 Ø	L1	L2	L3	L4 min.	L5	L6	L8	L9	L10
MSB4-1/8-FRC:J91PAGNM1-WP (LFR:LOE)	80	40	4	43,8	117	G1/8	39	199,8	86,1	18,2	25	53	46,5	106	5,6	93
MSB4-1/8-FRC:J93PAGNM1-WP (LFR:LOE)						G1/8										
MSB4-1/4-FRC:J91PAGNM1-WP (LFR:LOE)						G1/4										
MSB4-1/4-FRC:J93PAGNM1-WP (LFR:LOE)						G1/4										

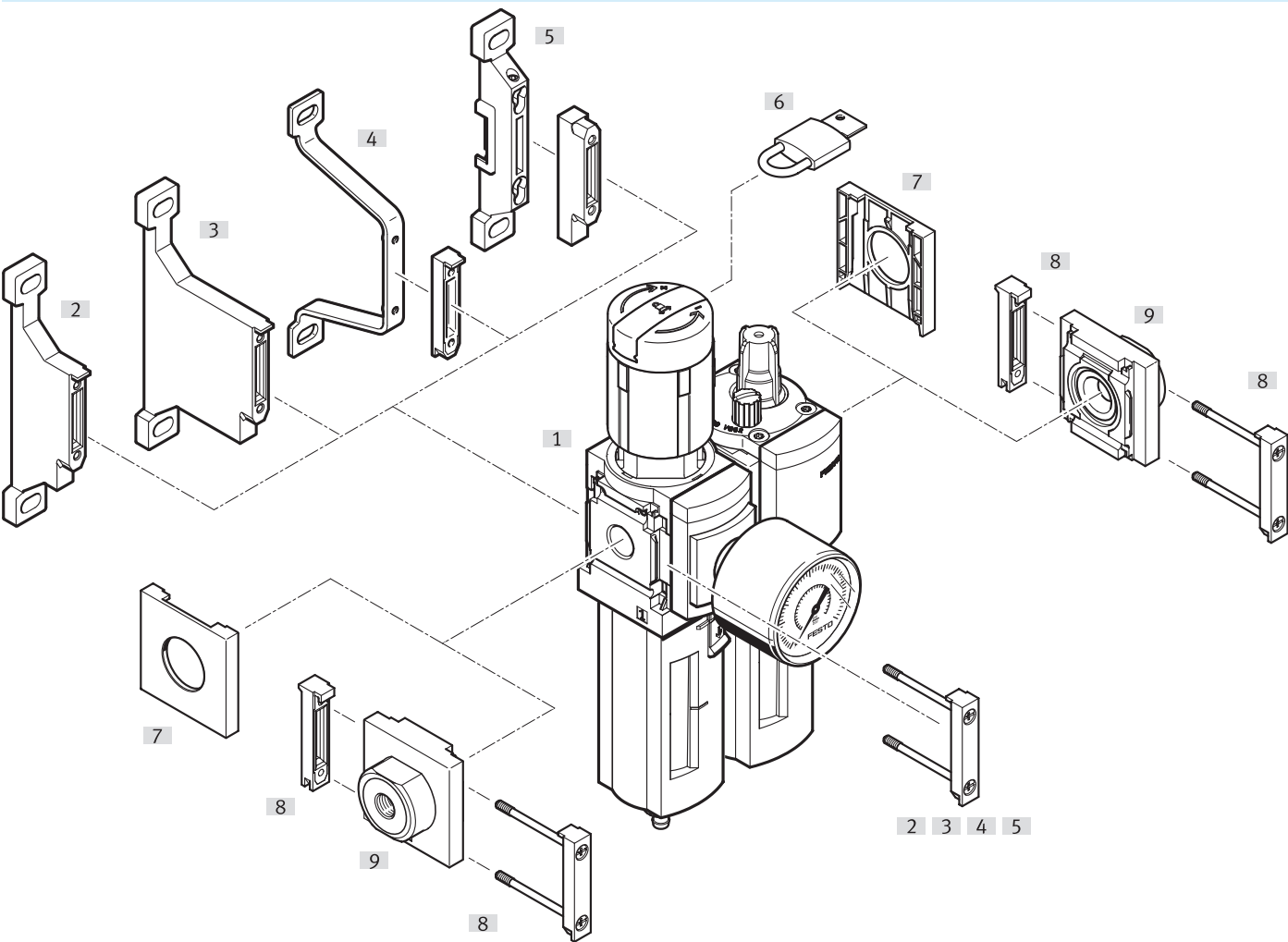
1) Standard scale

Ordering data

Ordering data					
	Pneumatic connection, port 1	Grade of filtration	Pressure regulation range	Part no.	Type
	G1/8	5 µm	0.5 ... 12 bar	8229816	MSB4-1/8-FRC:J93PAGNM1-WP
		40 µm		8229815	MSB4-1/8-FRC:J91PAGNM1-WP
	G1/4	5 µm		8229813	MSB4-1/4-FRC:J93PAGNM1-WP
		40 µm		8229575	MSB4-1/4-FRC:J91PAGNM1-WP

Peripherals

Peripherals overview



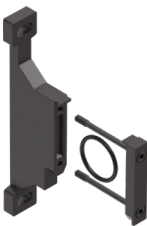
Accessories		→ Link
Type/order code	Description	
[1] Service unit combination MSB4-FRC		msb4-frc
[2] Mounting bracket MS4-WP	Included in the scope of delivery	msb4-frc
[3] Mounting bracket MS4-WPB		9
[4] Mounting bracket MS4-WPE		9
[5] Mounting bracket MS4-WPM		9
[6] Padlock LRVS-D		10
[7] Cover cap MS4-END		9
[8] Module connector MS4-MV1		9
[9] Connecting plate SET MS4-AG...		9

Accessories

Cover cap MS4-END				
	Material housing	LABS (PWIS) conformity	Part no.	Type
	PA-reinforced	VDMA24364-B1/B2-L	538779	MS4-END

Connecting plate-SET MS4-AG...				
	Pneumatic connection, port 1	LABS (PWIS) conformity	Part no.	Type
	G1/8	VDMA24364-B1/B2-L	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

Module connector MS4-MV1				
	LABS (PWIS) conformity	Product weight	Part no.	Type
	VDMA24364-B1/B2-L	13 g	8119201	MS4-MV1

Mounting bracket MS4-WP...					
	Material module connector	LABS (PWIS) conformity	Product weight	Part no.	Type
		VDMA24364-B1/B2-L		558869	MS4-WPE
	POM, Steel		39 g	541554	MS4-WP-EX
				532184	MS4-WP
			45 g	526060	MS4-WPM-D
			55 g	526063	MS4-WPB
				541552	MS4-WPB-EX
				526061	MS4-WPM-2D

Filter cartridge MS-LFP					
	Grade of filtration ¹⁾	Material filter	LABS (PWIS) conformity	Part no.	Type
	5 µm	PE	VDMA24364-B1/B2-L	534501	MS4-LFP-C
	40 µm			534502	MS4-LFP-E

1) Colour: blue (5 µm); white (40 µm)

Accessories

Special oil OPSW-32 (1 litre)				
	LABS (PWIS) conformity	Part no.	Type	
	VDMA24364-B2-L	152811	OPSW-32	

Padlock LRVS-D				
	LABS (PWIS) conformity	Product weight	Part no.	Type
	VDMA24364-B1/B2-L	120 g	193786	LRVS-D