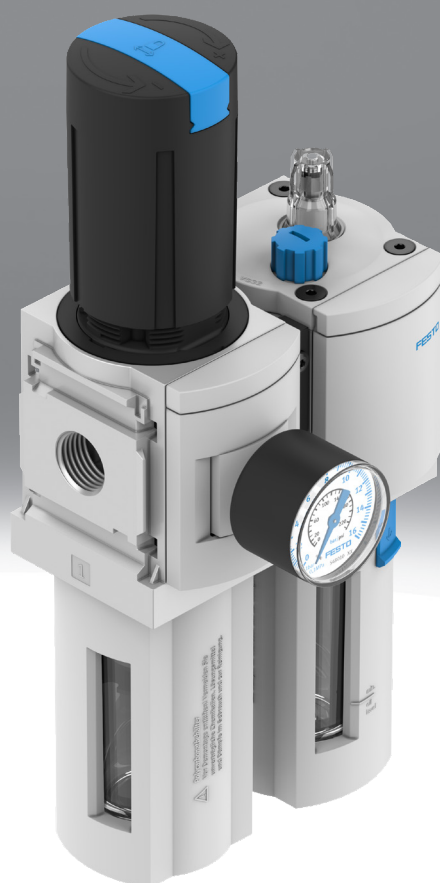


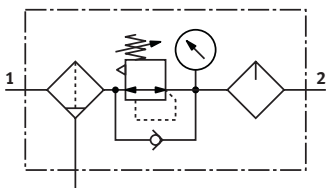
Service unit MSB6-FRC-...-WP

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: 62 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 [msb6-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	
6	Grid dimension 62 mm	
003	Pneumatic connection	
1/2	Female thread G1/2	
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	G1/2	
Pneumatic connection, port 2	G1/2	
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 $p_1 = 10$ bar, $p_2 = 6$ bar and $\Delta p = 1$ bar)

Grade of filtration	5 μm	40 μm
Standard nominal flow rate (standardised to DIN 1343)	3,600 l/min	3,700 l/min

Operating and environmental conditions

Operating pressure	1.5 ... 20 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

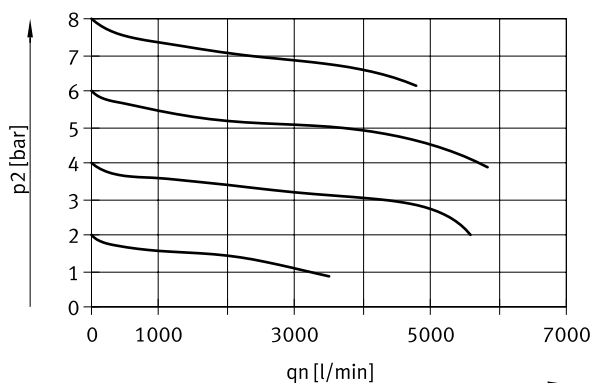
1) Further information www.festo.com/x/topic/crc

Weight

Product weight	1,535 g
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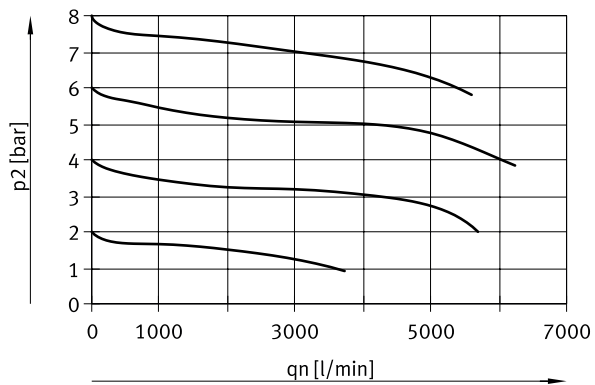
Materials

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 p_2 (MSB6-1/2; pressure regulation range 0.5 ... 12 bar; grade of filtration 5 μm)

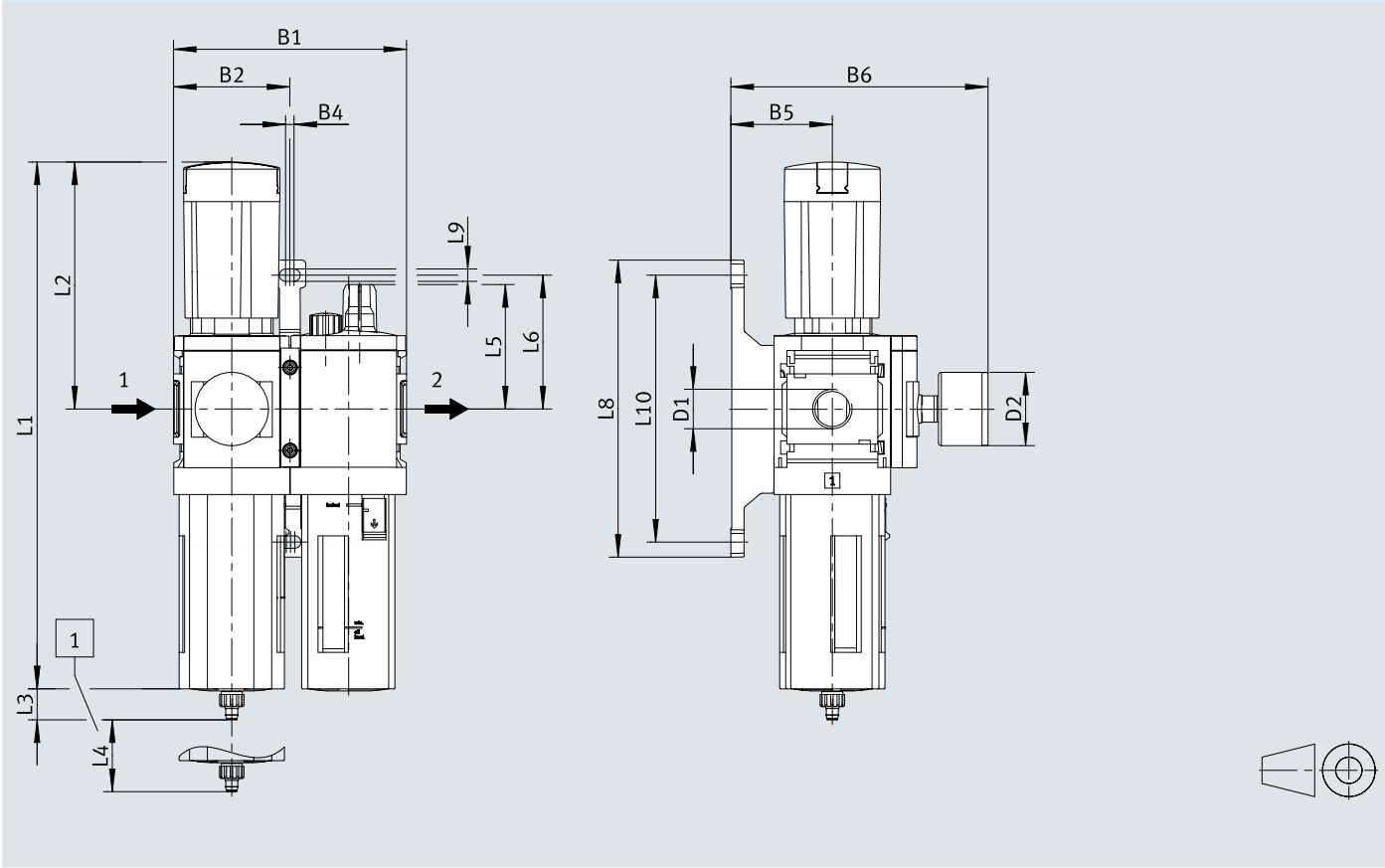
Datasheet

Standard flow rate q_n as a function of output pressure p_2 (MSB6-1/2; pressure regulation range 0.5 ... 12 bar; grade of filtration 40 μm)



Dimensions

Dimensions – Alternative mounting position, rotary knob underneath Download CAD data www.festo.com



	B1	B2	B4	B5	B6	D1	D2 Ø	L1	L2	L3	L4 min.	L5	L6	L8	L9	L10
MSB6-1/2-FRC:J91PAGNM1-WP (LFR:LOE)	124	61,9	4,5	54	137	G1/2	39	280,5	131,4	16,5	68	66,2	71,2	158	6,6	142
MSB6-1/2-FRC:J93PAGNM1-WP (LFR:LOE)																

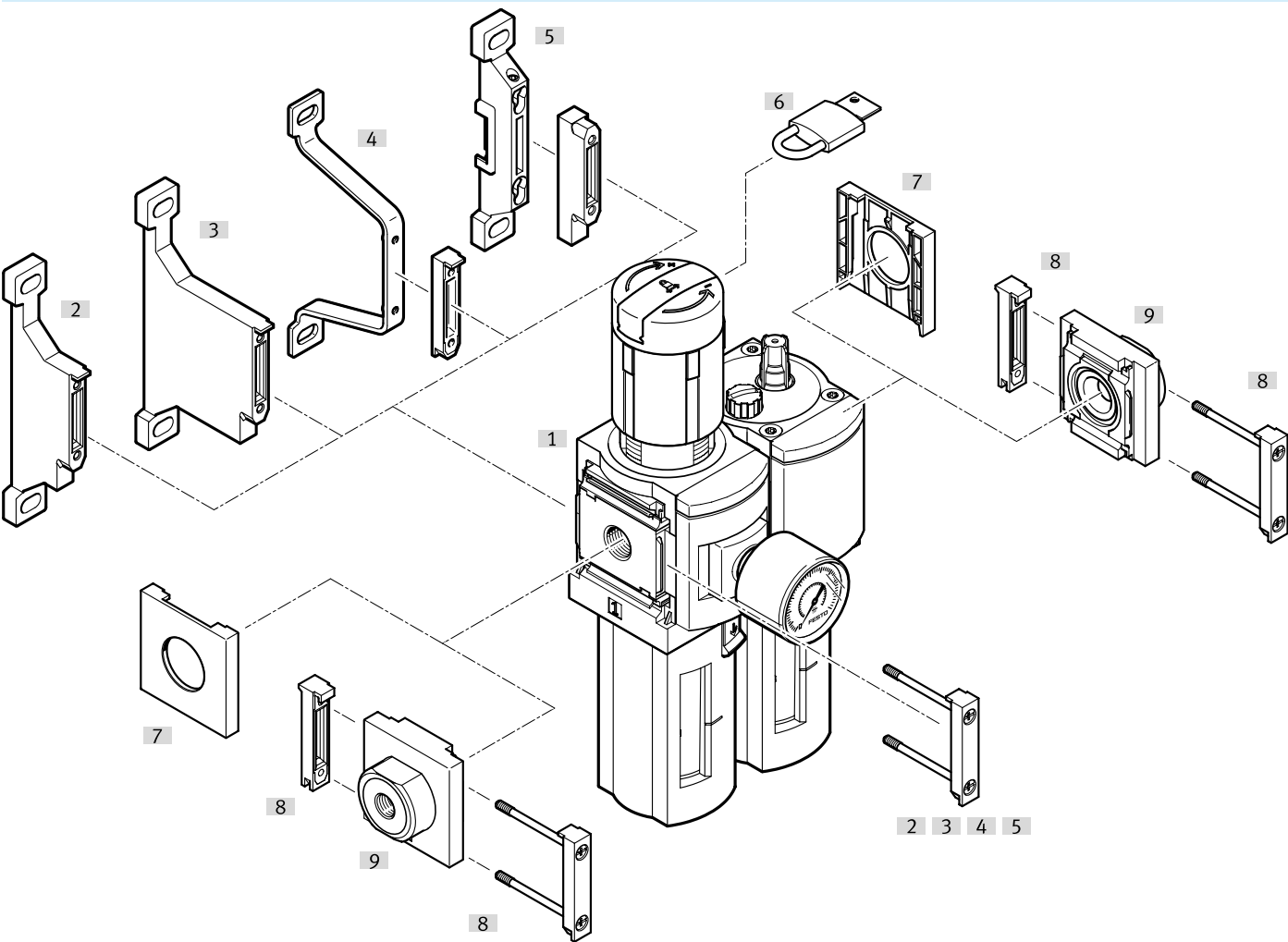
1) Standard scale

Ordering data

Ordering data					
	Pneumatic connection, port 1	Grade of filtration	Pressure regulation range	Part no.	Type
	G1/2	5 µm	0.5 ... 12 bar	8229814	MSB6-1/2-FRC:j93PAGNM1-WP
		40 µm		8229817	MSB6-1/2-FRC:j91PAGNM1-WP

Peripherals

Peripherals overview



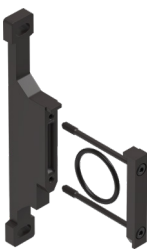
Accessories		→ Link
Type/order code	Description	
[1] Service unit combination MSB6-FRC		msb6-frc
[2] Mounting bracket MS6-WP	Included in the scope of delivery	msb6-frc
[3] Mounting bracket MS6-WPB		9
[4] Mounting bracket MS6-WPE		9
[5] Mounting bracket MS6-WPM		9
[6] Padlock LRVS		10
[7] Cover cap MS6-END		9
[8] Module connector MS6-MV1		9
[9] Connecting plate MS6-AG...		9

Accessories

Cover cap MS6-END				
	LABS (PWIS) conformity	Part no.	Type	
	VDMA24364-B1/B2-L	538780	MS6-END	

Connecting plate-SET MS6-AG...				
	Pneumatic connection, port 1	LABS (PWIS) conformity	Part no.	Type
	G1/4	VDMA24364-B1/B2-L	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		

Module connector MS6-MV1				
	LABS (PWIS) conformity	Product weight	Part no.	Type
	VDMA24364-B1/B2-L	33 g	8119204	MS6-MV1

Mounting bracket MS6-WP...				
	Material module connector	LABS (PWIS) conformity	Part no.	Type
		VDMA24364-B1/B2-L	1025936	MS6-WPE
	Die-cast aluminium		532186	MS6-WPM-2D
			526073	MS6-WPM-D
	POM, Steel		532195	MS6-WP
			526074	MS6-WPB
			541542	MS6-WPB-EX
			541544	MS6-WP-EX

Filter cartridge MS-LFP					
	Grade of filtration ¹⁾	Material filter	LABS (PWIS) conformity	Part no.	Type
	5 µm	PE	VDMA24364-B1/B2-L	534499	MS6-LFP-C

Accessories

Filter cartridge MS-LFP					
	Grade of filtration ¹⁾	Material filter	LABS (PWIS) conformity	Part no.	Type
	40 µm	PE	VDMA24364-B1/B2-L	534500	MS6-LFP-E

1) Colour: blue (5 µm); white (40 µm)

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

Padlock LRV5-D				
	LABS (PWIS) conformity	Product weight	Part no.	Type
	VDMA24364-B1/B2-L	120 g	193786	LRVS-D