



★/☆ Festo core product range

Covers 80% of your automation tasks

Worldwide: Always in stock

Superb: Festo quality at an attractive price
Easy: Reduces procurement and storing complexity

★ Generally ready for shipping ex works in 24 hours Held in stock in 13 service centres worldwide More than 2200 product

☆ Generally ready for shipping ex works in 5 days Assembled for you in 4 service centres worldwide Up to 6 x 10¹² variants per product series



MS series service unit components

Key features

FESTO

MS series service unit components

Solutions for every application

With its large product range, highly functional components and a wide choice of services, the MS series from Festo offers a complete concept for compressed air preparation. Suitable for simple standard applications as well as application-specific solutions to the highest quality standards.

Available as individual components, pre-assembled combinations ex-stock, application-specific combinations or complete turnkey solutions. The five sizes in the MS series achieve maximum flow rates with minimum space requirements.

Freely combinable function modules

Pressure regulators, on/off and softstart valves with safety function, filter, pressure and flow sensors, dryers, sensors and lubricators. All these allow a suitable solution to be assembled for every task. Their modular structure means that the components are freely combinable. A simple connection system saves time when replacing individual modules without dismantling the entire combination. What's more, many of the components are certified to UL and ATEX.

CAD models and configurator

Convenient aids for planning and selecting application-specific individual devices and combinations. The product configurator lets you configure customised solutions quickly and transfer the order data with no hassle.

Engineering tools

Selection tool for choosing the right service unit without oversizing, and with the right air quality class:

→ www.festo.com/engineering/wartungseinheit



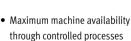
Integrated sensors Pressure and flow sensors

Safety functions Soft-start/quick exhaust valves MS6-SV/MS9-SV

Energy savings Service units MSE6

Intelligent mix of sizes





- Reliable compressed air preparation and supply for systems
- Integrable or stand-alone
- Easy to connect with M8/M12 plug



- Fast and reliable exhausting of systems up to Performance Level e, certified to EN ISO 13849-1
- Integrated soft-start function



- Fully automatic monitoring and regulation of compressed air supply
- Automatic shut-off of the compressed air in stand-by mode
- Detection and notification of leakages
- Condition monitoring of relevant process data



- Optimum flow rate with up to 18% smaller size
- Excellent energy efficiency
- Cost-optimised combinations save up to 30%!

Size differences						
Size		MS2	MS4	MS6	MS9	MS12
Grid dimension	[mm]	25	40	62	90	124
Port sizes		M5, QS-6	G¹/8, G¹/4, G³/8	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	G½, G¾, G1, G1¼, G1½	G1, G1¼, G1½, G2
Standard nominal flow rate qnN ¹⁾	[l/min]	350	1800	6500	20000	22000

¹⁾ Using pressure regulator MS-LR as an example

MS series service unit components



Key features

Note

Information

The next few pages provide a brief overview of the complete product range for the MS series service unit components.

You can find detailed information and all of the technical data in the documentation for the corresponding service unit component.

Accessories such as connection plates or mounting brackets can be ordered either via the configurator or separately.

Structure of a service unit

The order of the individual components within a service unit is relevant for safety and functionality. It is not possible to assemble the service unit components in any order in the flow direction. There are restrictions and rules.

The configurator for service unit MSB is a reliable and convenient way of arranging individual service unit components. This ensures that the applicable rules are complied with. As a result, you get a completely assembled combination with UL or ATEX certification if you need it. When arranging a combination of individually configured and ordered service unit components, the points on the right must be adhered to under all circumstances.

- Regulators MS-LFR/LR/LRP/LRE are only permissible in the flow direction with the same or decreasing pressure regulation range
- Filters MS-LFR/LF/LFM/LFX are only permissible in the flow direction with an increasing grade of filtration
- Lubricators MS-LOE are not permitted in the flow direction upstream of a filter MS-LFR/LFM/LF/LFX, water separator MS-LWS or membrane air dryer MS-LDM1
- A micro filter MS-LFM must be installed upstream of an activated carbon filter MS-LFX or membrane air dryer MS-LDM1 in the flow direction
- A flow sensor SFAM cannot be installed directly downstream of a regulator MS-LFR/LR; a branching module MS-FRM must be positioned between them
- A soft-start/quick exhaust valve MS-SV must be the last service unit component in the flow direction

Туре	Description	Size	Pneumatic	connectio	n			
			Push-in	Female	thread		Connection plate wit	h thread
			connector	M	G	NPT	G	NPT
Combination	is							
Service units	MSB-FRC						Technica	l data 🗲 Internet: ms
. 0.	Combinations of filter regulator	4	-	-	1/8, 1/4	-	-	-
and it	and lubricator	6	-	-	1/4, 3/8, 1/2	-	-	-
ervice units	s MSB						Technical	l data 🗲 Internet: ms
-91	7 combinations, predefined	4	-	 -	1/4	-	_	-
		6	-	-	1/2	-	_	-
4								
O del	Combinations freely configurable	4	-	-	1/8, 1/4	-	1/8, 1/4, 3/8	1/8, 1/4, 3/8
	TU .	6	-	-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
	Î	9	-	-	3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11/2
. III w	<i>p</i>							
Service units		1.		_	1	1		data → Internet: mse
Labor.	Combinations with fieldbus con-	6	-	-	-	-	1/2	-
(ATE	nection for measuring pressure,							
	flow rate and consumption							

MS series service unit componentsKey features



Гуре	Description	Size	Pneumatic	Pneumatic connection						
			Push-in	Female	thread		Connection plate wit	h thread		
			connector	M	G	NPT	G	NPT		
ndividual de										
ilter regulat	ors MS-LFR						Technical o	lata 🛨 Internet: ms-l		
	Filter and pressure regulator in a	2	QS-6	M5	-	-	-	-		
100	single device,	4	-	-	1/8, 1/4	-	1/8, 1/4, 3/8	1/8, 1/4, 3/8		
- 10	grade of filtration 5 or 40 µm	6	-	-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4		
- 110		9	-	-	3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11/		
Ψ		12	-	-	-	-	1, 11/4, 11/2, 2	-		
ilters MS-LI	•						Tochnical	data → Internet: ms		
illeis M3-Li	Grade of filtration 5 or 40 µm	4			1/8, 1/4		1/8, 1/4, 3/8	1/8, 1/4, 3/8		
1	Grade of Illitation 5 of 40 µm	4	_	-		_				
-		6		-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4		
		9		-	3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11/		
		12	_	-	_	-	1, 11/4, 11/2, 2	_		
ine and mic	ro filters MS-LFM							ata → Internet: ms-lí		
0	Grade of filtration 0.01 or 1 μm	4	-	-	1/8, 1/4	-	1/8, 1/4, 3/8	1/8, 1/4, 3/8		
<u> </u>		6	-	-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4		
10		9	-	-	3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11/		
- 10		12	-	-	-	-	1, 11/4, 11/2, 2	-		
ctivated ca	rbon filters MS-LFX						Technical c	ata → Internet: ms-		
-	For removing liquid and gaseous	4	T_	T_	1/8, 1/4	_	1/8, 1/4, 3/8	1/8, 1/4, 3/8		
3	oil particles	6	_	_	1/4, 3/8, 1/2	_	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4		
1	5.1. p.s	9	_	_	3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11/		
ų.		12		_	-	-	1, 11/4, 11/2, 2	-		
			•		1		<u>'</u>	-		
Vater separa	ators MS-LWS						Technical da	ata → Internet: ms-lv		
Bio.	Remove condensed water from	6	-	-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4		
	compressed air, maintenance-free	9	-	_	3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11/		
- 111		12	-	-	-	-	1, 11/4, 11/2, 2	_		
- 4			'	*	1	•	·			

MS series service unit components Key features



		Size	Pneumatic connection					
			Push-in	Female	thread		Connection plate wit	h thread
			connector	M	G	NPT	G	NPT
dividual de	vices							
ressure regu	ılators MS-LR						Technical	data 🗲 Internet: ms
-	For setting the required operating	2	QS-6	M5	-	-	-	_
	pressure,	4	-	-	1/8, 1/4	-	1/8, 1/4, 3/8	1/8, 1/4, 3/8
51 B	4 pressure regulation ranges	6	-	-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
40		9	-	-	3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11/4
		12		-		-	1, 11/4, 11/2, 2	-
occuro rogi	ulators MS-LRB						Tochnical d	ata → Internet: ms-
essure regu	For creating a regulator manifold	4	_	1_	1/4	1-	1/8, 1/4, 3/8	
- 68	with independent pressure regula-	6		-	1/2	_	1/4, 3/8, 1/2, 3/4	_
into:		О		_	*/2	_	1/4, 3/8, 1/2, 3/4	-
AND D	tion ranges. Pressure output is to the front or rear.							
	the none of real.							
ecision pre	ssure regulators MS-LRP							ata → Internet: ms-
	For precise setting of the required	6	-	-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
	operating pressure,							
100	4 pressure regulation ranges,							
	pressure hysteresis 0.02 bar							
ecision pre	ssure regulators MS-LRPB						Technical da	ta → Internet: ms-lr
	For configuring a regulator	6	T-	T_	1/2	T_	1/4, 3/8, 1/2, 3/4	-
	manifold with independent				/		74, 70, 72, 74	
	pressure regulation ranges.							
90	Pressure output is to the front or							
	rear.							
ectrical pres	ssure regulators MS-LRE							ata → Internet: ms-
	Electrically adjustable pressure	6	-	-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
	regulator,							
	4 pressure regulation ranges							
-								
bricators N	IS-LOE						Technical d	ata → Internet: ms-l
	Add a precisely adjustable amount	4	-	-	1/8, 1/4	_	1/8, 1/4, 3/8	1/8, 1/4, 3/8
400	of oil to the compressed air. The oil		_	_		_	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
N)					3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11/4
	mist component is proportional to	9	_	_	74.1	74, 1	72, 74, 1, 174, 172	1/2, 7/4, 1. 1 1/4, 1 1
ubricators M	Add a precisely adjustable amount	6	-	-	1/4, 3/8, 1/2	-	1/8, 1/4, 3/8 1/4, 3/8, 1/2	3, 3/4

MS series service unit componentsKey features



Туре	range for MS series service unit compor Description	Size	Pneumatic	connectio	n			
-,,,-			Push-in	Female			Connection plate wit	h thread
			connector	M	G	NPT	G	NPT
Individual dev	rices							
On/off valves							Technical d	ata → Internet: ms-em
-	Manually operated on/off valve for	4	—	_	1/8, 1/4	-	1/8, 1/4, 3/8	1/8, 1/4, 3/8
- 4	pressurising and exhausting	6	_	_	1/4, 3/8, 1/2	_	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
9	pneumatic installations.	9	_	_	3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11/2
	·	12	-	-	-	-	1, 11/4, 11/2, 2	_
On/off valves	MS-EE						Technical c	lata → Internet: ms-ee
	Solenoid actuated on/off valve for	4	-	-	1/8, 1/4	-	1/8, 1/4, 3/8	1/8, 1/4, 3/8
	pressurising and exhausting	6	-	-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
2	pneumatic installations.	9	-	-	3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11/2
٧		12		-	-	-	1, 11/4, 11/2, 2	-
Soft-start val	ves MS-DL						Technical o	data → Internet: ms-d
-	Pneumatically actuated soft-start	4	_	_	1/8, 1/4	-	1/8, 1/4, 3/8	1/8, 1/4, 3/8
	valve for slowly pressurising and	6	_	_	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
	exhausting pneumatic	12	_	_	-	-	1, 11/4, 11/2, 2	-
	installations.							•
	No DE						-	
Soft-start valv					1/ 1/	T		lata → Internet: ms-de
•	Solenoid actuated soft-start valve	4	-	-	1/8, 1/4	-	1/8, 1/4, 3/8	1/8, 1/4, 3/8
100	for slowly pressurising and	6	-	-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
40	exhausting pneumatic installations.	12	-	-		-	1, 11/4, 11/2, 2	_
Soft-start/qui	ck exhaust valves MS-SV						Technical o	data → Internet: ms-sv
	For building up pressure gradually	6	-	_	1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
	and reducing pressure quickly	9	-	_	3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11/2
<u> </u>	and safely in pneumatic piping							
- 11	systems.							
U	Up to category 1, PL c.							
9	Up to category 3, PL d.	6	-	-	1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
SH	Up to category 4, PL e in the case							
#	of optional extension.							
-	Up to category 4, PL e.	6	_	-	1/2	-	1/4, 3/8, 1/2, 3/4	_
T T			,		1	1		

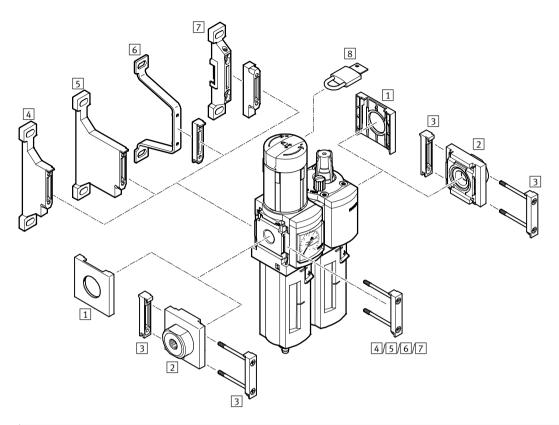
MS series service unit components Key features



pe	Description	Size	Pneumatic connection						
			Push-in	Female	thread		Connection plate wit	h thread	
			connector	M	G	NPT	G	NPT	
dividual d	evices								
embrane a	air dryers MS-LDM1							ta → Internet: ms-lo	
1	Wear-free membrane dryer with	4	-	-	1/8, 1/4	-	1/8, 1/4, 3/8	1/8, 1/4, 3/8	
Ĩ	internal air consumption	6	_	-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4	
anching m	nodules MS-FRM						Technical da	ata → Internet: ms-f	
(2)	Compressed air distributor with	4	-	-	1/8, 1/4	-	1/8, 1/4, 3/8	-	
E	4 connections	6	-	-	1/4, 3/8, 1/2	-	1/4, 3/8, 1/2, 3/4	-	
		9	-	-	3/4, 1	3/4, 1	1/2, 3/4, 1, 11/4, 11/2	1/2, 3/4, 1, 11/4, 11	
		12	-	-	-	-	1, 11/4, 11/2, 2	-	
stributor b	blocks MS-FRM-FRZ	1		,	T	,	Technical data	→ Internet: ms-frm-	
The said	Compressed air distributor with	4	-	-	-	-	-	-	
4	4 connections and half the grid dimension width	6	-	-	-	-	_	_	
	umension width								
ow sensor:	s SFAM						Technical	data → Internet: sfa	
-	For absolute flow rate information	6	-	_	-	-	1/2	1/2	
0 5	and accumulated air consumption	9	-	-		-	1, 11/2	1, 11/2	
	measurement		,	1	,	1		ч	

Service unit combinations MSB4/MSB6-FRC, MS series Peripherals overview





Mounti	Nounting attachments and accessories						
1	Cover cap	ms4-end,					
	MS4/6-END	ms6-end					
2	Connecting plate-SET	ms4-ag,					
	MS4/6-AG	ms6-ag					
3	Module connector	ms4-mv,					
	MS4/6-MV	ms6-mv					
4	Mounting bracket	ms4-wp,					
	MS4/6-WP	ms6-wp					
5	Mounting bracket	ms4-wp,					
	MS4/6-WPB	ms6-wp					
6	Mounting bracket	ms4-wp,					
	MS4/6-WPE	ms6-wp					
7	Mounting bracket	ms4-wp,					
	MS4/6-WPM	ms6-wp					
8	Padlock	16					
	LRVS-D						

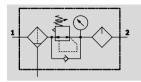


		MSB	6	-	3/8] - [FF
rios							
eries							
MSB	Service unit combination						
Size							
4	Grid dimension 40 mm						
6	Grid dimension 62 mm						
Pneumatic (connection						
MSB4						_	
1/8	Thread G½						
1/4	Thread G1/4						
MCD							
MSB6	Thread C1/.						
¹ / ₄ ³ / ₈	Thread G ¹ / ₄ Thread G ³ / ₈						
1/2	Thread G½						
/2	Tilledu 0/2						
accessori • Lubricato							
Pressure re	gulation range 0.3 7 bar		-				
Plastic bowl							
FRC1:J5	Grade of filtration 40 µm, manual rotary condensate drain,						
	pressure gauge with outer scale in bar and inner scale in ps	i					
FRC13:J120							
	pressure gauge with outer scale in MPa						
Pressure re	gulation range 0.5 12 bar						
Plastic bowl							
FRC7:J3	Grade of filtration 5 µm, manual rotary condensate drain,						
	pressure gauge with outer scale in bar and inner scale in ps	i					
FRC5:J1	Grade of filtration 40 µm, manual rotary condensate drain,						
	pressure gauge with outer scale in bar and inner scale in ps						
FRC6:J2	Grade of filtration 40 µm, fully automatic condensate drain,						
	pressure gauge with outer scale in bar and inner scale in ps	i					
Metal bowl							
FRC11:J9	Grade of filtration 5 µm, manual rotary condensate drain,						
1 KC11.J7	pressure gauge with outer scale in bar and inner scale in ps	i					
FRC12:J10	Grade of filtration 5 µm, fully automatic condensate drain,	"					
	pressure gauge with outer scale in bar and inner scale in ps	i					
	· ·						
FRC9:J11	Grade of filtration 40 µm, manual rotary condensate drain.						
FRC9:J11	Grade of filtration 40 µm, manual rotary condensate drain, pressure gauge with outer scale in bar and inner scale in ps	i					
	*						
FRC9:J11 FRC10:J12	pressure gauge with outer scale in bar and inner scale in ps						
FRC10:J12	pressure gauge with outer scale in bar and inner scale in ps Grade of filtration 40 µm, fully automatic condensate drain, pressure gauge with outer scale in bar and inner scale in ps						
FRC10:J12	pressure gauge with outer scale in bar and inner scale in ps Grade of filtration 40 μ m, fully automatic condensate drain, pressure gauge with outer scale in bar and inner scale in ps						
	pressure gauge with outer scale in bar and inner scale in ps Grade of filtration 40 µm, fully automatic condensate drain, pressure gauge with outer scale in bar and inner scale in ps						

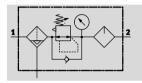


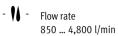
Technical data

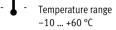
Function With condensate drain manual rotary



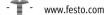
With condensate drain fully automatic













- Filter, regulator and lubricator function in a single unit
- High flow rate and highly efficient removal of contaminants
- Good regulating characteristics with minimal pressure hysteresis
- Setting values are secured by locking the rotary knob
- Lockable rotary knob
- Two pressure regulation ranges: 0.3 ... 7 bar and 0.5 ... 12 bar
- With manual or integrated, fully automatic condensate drain
- Choice of filter cartridges: 5 μm or 40 μm
- New filter cartridges → 16,
 Festo special oil → 16

General technical data						
Size		MSB4	MSB6			
Pneumatic connection 1, 2		G½	-			
		G1/4 G1/4				
		-	G3/8			
		-	G½			
Design		Filter regulator with pressure gauge				
		Proportional standard mist lubricator				
Regulating function		Output pressure constant, with primary pressure compo	ensation, with return flow function, with secondary venting			
Type of mounting		Via accessories				
Assembly position		Vertical ±5°				
Grade of filtration [µm]		5				
		40				
Air purity class at the output		Compressed air in accordance with ISO 8573-1:2010 [6:4:–] (grade of filtration 5 μm)				
		Compressed air in accordance with ISO 8573-1:2010 [7:4:–] (grade of filtration 40 μm)				
Bowl guard		Plastic bowl guard	Plastic bowl guard			
		-	Integrated as metal bowl			
Condensate drains		Manual rotary				
		Fully automatic				
Actuator lock		Rotary knob with detent, lockable via accessories				
Pressure regulation range	[bar]	0.3 7				
		0.5 12				
Pressure indicator		With pressure gauge				

Note: This product conforms to ISO 1179-1 and to ISO 228-1



Standard nominal flow rate qnN ¹⁾ [l/min]								
Size		MSB4	MSB4					
Pneumatic connection		G1/8	G1/4	G1/4	G3/8	G1/2		
Pressure regulation range 0.3 7 bar								
Grade of filtration	40 μm	-	1,400	-	-	4,800		
Pressure regulation rang	e 0.5 12 bar							
Grade of filtration	5 μm	-	850	-	-	3,600		
	40 μm	850	900	1,900	3,500	3,700		

¹⁾ Measured at p1 = 10 bar and p2 = 6 bar, Δp = 1 bar. \cdot | \cdot 125 l/min must be available for the fully automatic condensate drain to close correctly.

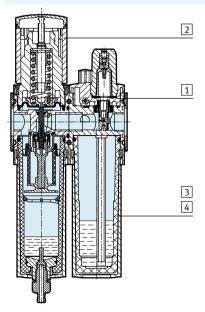
Operating and environmen	ital conditio	ns						
Condensate drain		Manual rotary		Fully automatic				
Size		MSB4	MSB6	MSB4	MSB6			
Operating pressure	[bar]	1.5 14	1.5 20	2 12	2 12			
Operating medium		Compressed air in accordan	ce with ISO 8573-1:2010	Compressed air in	accordance with ISO 8573-1:2010			
		[-:4:-]		[7:4:-]				
		Inert gases						
Note on operating/pilot me	dium	Operation with lubricated medium possible (in which case lubricated operation will always be required)						
Ambient temperature	[°C]	-10 +60		+5 +60	+5 +60			
Temperature of medium	[°C]	-10 +60		+5 +60				
Storage temperature	[°C]	-10 +60		-10 +60	-10 +60			
Corrosion resistance class	CRC ¹⁾	2						
Food-safe ²⁾		See supplementary material	See supplementary material information					

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070

Weights [g]		
Size	MSB4	MSB6
With plastic bowl guard	500	1,495
With metal bowl	-	1,713

Materials

Sectional view



Serv	Service unit			
1	Body	Die-cast aluminium		
2	Regulating knob	PA/POM		
3	Plastic bowl guard	PC		
4	Metal bowl	Wrought aluminium alloy		
-	Seals	NBR		



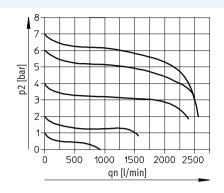
Technical data

Standard flow rate qn as a function of output pressure p2

Pressure regulation range 0.3 ... 7 bar Grade of filtration 5 μ m MSB4-1/4

Primary pressure p1 = 10 bar

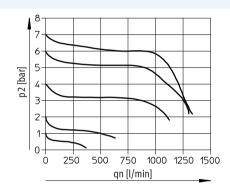
Grade of filtration 40 μm



Pressure regulation range 0.5 ... 12 bar $\,$ Grade of filtration 5 μm MSB4-1/8

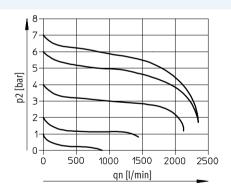
Primary pressure p1 = 10 bar

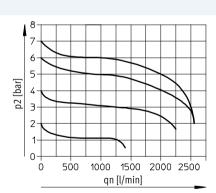
Grade of filtration 40 µm



MSB4-1/4

Primary pressure p1 = 10 bar







Technical data

Standard flow rate qn as a function of output pressure p2

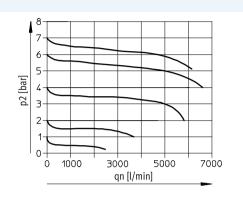
Pressure regulation range 0.3 ... 7 bar

Grade of filtration 5 µm

Grade of filtration 40 µm

MSB6-1/2

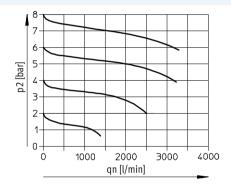
Primary pressure p1 = 10 bar



Pressure regulation range 0.5 ... 12 bar $\,$ Grade of filtration 5 μm

MSB6-1/4

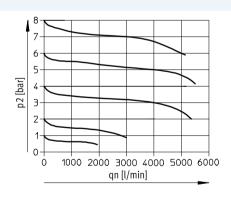
Grade of filtration 40 μm



MSB6-3/8

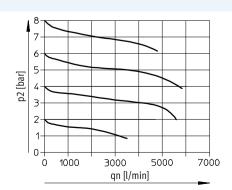
Primary pressure p1 = 10 bar

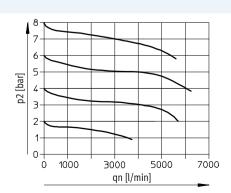
Primary pressure p1 = 10 bar



MSB6-1/2

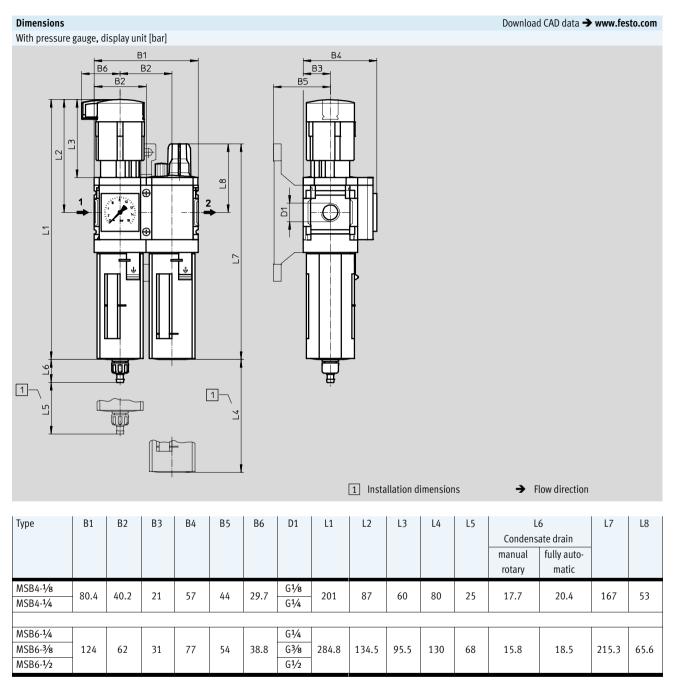
Primary pressure p1 = 10 bar







Technical data



Note: This product conforms to ISO 1179-1 and to ISO 228-1

Service unit combinations MSB4/MSB6-FRC, MS series Technical data



★ Core product range

Ordering data					
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре
Pressure regulation range 0.5 12 bar, plastic bowl guard, pressure gauge with outer scale in bar and inner scale in psi					
MSB4	G1/4	Manual rotary	40	★ 531117	MSB4-1/4-FRC5:J1M1
MSB6	G1/2	Manual rotary	40	★ 530244	MSB6-1/2-FRC5:J1M1

Ordering data	1					
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре	
Pressure regulation range 0.3 7 bar, plastic bowl guard, pressure gauge with outer scale in MPa						
MSB4	G1/4	Manual rotary	40	8042669	MSB4-1/4-FRC13:J120M1	
MSB6	G ¹ / ₂	Manual rotary	40	8042673	MSB6-1/2-FRC13:J120M1	
Pressure regu	llation range 0.3 7 ba	r, plastic bowl guard, pressure s	gauge with outer scale in bar and inner	scale in psi		
MSB4	G1/4	Manual rotary	40	531109	MSB4-1/4-FRC1:J5M1	
MSB6	G ¹ / ₂	Manual rotary	40	530230	MSB6-1/2-FRC1:J5M1	
Pressure regu MSB4	G ¹ / ₈ G ¹ / ₄	Manual rotary	e gauge with outer scale in bar and inne 40 5	531133 531121	MSB4-½-FRC5:J1M1 MSB4-½-FRC7:J3M1	
	G1/4	Fully automatic	40	531119	MSB4- ¹ / ₄ -FRC6:J2M1	
MSB6	G ¹ / ₄	Manual rotary	40	530268	MSB6- ¹ / ₄ -FRC5:J1M1	
	G3/8		40	530292	MSB6-3/8-FRC5:J1M1	
	G ¹ / ₂		5	530248	MSB6-½-FRC7:J3M1	
	G ¹ / ₂	Fully automatic	40	530246	MSB6-½-FRC6:J2M1	
Pressure regu	lation range 0.5 12 b	ar, metal bowl, pressure gauge	with outer scale in bar and inner scale	in psi		
MSB6	G ¹ / ₂	Manual rotary	40	530252	MSB6-1/2-FRC9:J11M2	
			5	530234	MSB6-1/2-FRC11:J9M2	
		Fully automatic	40	530232	MSB6-1/2-FRC10:J12M2	
			5	530236	MSB6-1/2-FRC12:J10M2	

[★] Generally ready for shipping ex works in 24 hours

[☆] Generally ready for shipping ex works in 5 days

Service unit combinations MSB-FRC, MS seriesAccessories



Filter cartridges



Ordering	data		
Size	Grade of filtration	Part No.	Туре
	[µm]		
MS4	5 (colour: blue)	534501	MS4-LFP-C
	40 (colour: white)	534502	MS4-LFP-E
MS6	5 (colour: blue)	534499	MS6-LFP-C
	40 (colour: white)	534500	MS6-LFP-E

Special oil



Ordering data		
Scope of delivery	Part No.	Туре
1 litre	152811	OFSW-32

Ordering data – Padlock LRVS-D					
	Weight [g]	Part No.	Туре		
	120	193786	LRVS-D		