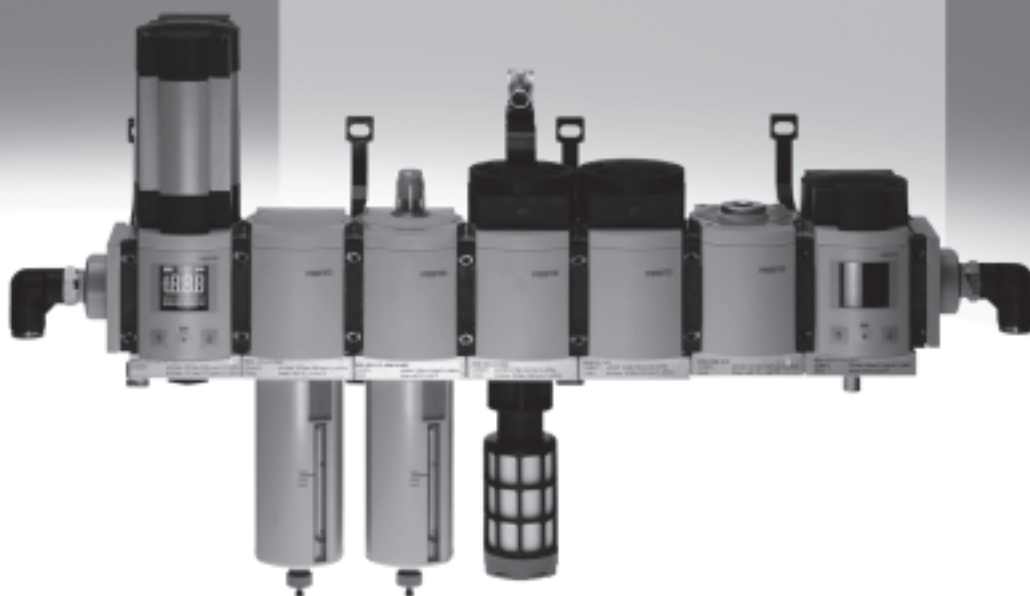


Service units MSB-FRC, MS series

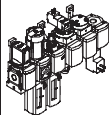
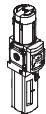
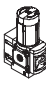
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Service units MSB-FRC, MS series

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Product range overview – MS series service units

Type		Size		Pneumatic connection in housing	Connecting plate	Pressure regulation range						Grade of filtration			
						[bar]						[µm]			
						0.05 ... 0.7	0.05 ... 2.5	0.1 ... 4	0.3 ... 7	0.1 ... 12	0.5 ... 16				
Code					AG...	D2	D4	D5	D6	D7	D8	A	B	C	E
Service units															
MSB-FRC		4	G1/8, G1/4	G1/8, G1/4, G3/8	–	–	–	■	■	–	–	–	■	■	
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	–	–	–	■	■	–	–	–	■	■	
		9	–												
		12	–												
Service unit combinations (further variants can be ordered using the configurator → Internet: msb4, msb6 or msb9)															
MSB		4	G1/4	G1/8, G1/4, G3/8	–	–	–	■	■	–	–	–	■	■	
		6	G1/2	G1/4, G3/8, G1/2, G3/4	–	–	–	■	■	–	–	–	■	■	
		9	–												
		12	–												
Individual devices															
Filter regulators MS-LFR		4	G1/8, G1/4	G1/8, G1/4, G3/8	–	–	■	■	■	–	–	–	■	■	
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	–	–	■	■	■	■	–	–	■	■	
		9	–												
		12	–	G1, G1¼, G1½, G2	–	–	–	■	■	■	–	–	■	■	
Filter MS-LF		4	G1/8, G1/4	G1/8, G1/4, G3/8	–	–	–	–	–	–	–	–	■	■	
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	–	–	–	–	–	–	–	–	■	■	
		9	–												
		12	–	G1, G1¼, G1½, G2	–	–	–	–	–	–	–	–	■	■	
Fine and micro filters MS-LFM		4	G1/8, G1/4	G1/8, G1/4, G3/8	–	–	–	–	–	–	■	■	–	–	
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	–	–	–	–	–	–	■	■	–	–	
		9	G3/4, G1	G1/2, G3/4, G1, G1¼, G1½	–	–	–	–	–	–	■	■	–	–	
		12	–	G1, G1¼, G1½, G2	–	–	–	–	–	–	■	■	–	–	
Activated carbon filters MS-LFX		4	G1/8, G1/4	G1/8, G1/4, G3/8	–	–	–	–	–	–	–	–	–	–	
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	–	–	–	–	–	–	–	–	–	–	
		9	G3/4, G1	G1/2, G3/4, G1, G1¼, G1½	–	–	–	–	–	–	–	–	–	–	
		12	–	G1, G1¼, G1½, G2	–	–	–	–	–	–	–	–	–	–	
Pressure regulators MS-LR		4	G1/8, G1/4	G1/8, G1/4, G3/8	–	–	■	■	■	–	–	–	–	–	
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	–	–	■	■	■	■	–	–	–	–	
		9	–												
		12	–	G1, G1¼, G1½, G2	–	–	–	■	■	■	–	–	–	–	
Pressure regulators MS-LRB		4	G1/4	G1/8, G1/4, G3/8	–	–	■	■	■	–	–	–	–	–	
		6	G1/2	G1/4, G3/8, G1/2, G3/4	–	–	■	■	■	■	–	–	–	–	
		9	–												
		12	–												
Precision pressure regulators MS-LRP		4	–												
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	■	■	■	–	■	–	–	–	–	–	
		9	–												
		12	–												
Precision pressure regulators MS-LRPB		4	–												
		6	G1/2	G1/4, G3/8, G1/2, G3/4	■	■	■	–	■	–	–	–	–	–	
		9	–												
		12	–												

Service units MSB-FRC, MS series

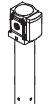
Product range overview – MS series service units

Type	Size	Bowl guard		Condensate drains				Pressure indicator					Actuator lock		Options		→ Page/ Internet
		Plastic bowl with plastic bowl guard	Metal bowl	Manual rotary	Semi-automatic	Fully automatic	External, fully automatic, electrical	Cover plate (without pressure gauge)	Integrated MS pressure gauge	Adapter plate for EN pressure gauge G1/8	Adapter plate for EN pressure gauge G1/4	Pressure sensor with display	Rotary knob, lockable	Rotary knob, long	Silencer	Flow direction from right to left	
Code		R	U	M	H	V	E ...	VS	AG	A8	A4	AD...	AS	LD	S	Z	
Service units																	
MSB-FRC	4	■	–	■	–	■	–	–	■	–	–	–	■	–	–	■	8
	6	■	■	■	–	■	–	–	■	–	–	–	■	–	–	■	8
	9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Service unit combinations																	
MSB	4	■	■	■	–	■	–	–	■	–	–	–	■	–	–	■	msb4
	6	■	■	■	–	■	–	–	■	–	–	–	■	–	–	■	msb6
	9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Individual devices																	
Filter regulators MS-LFR	4	■	■	■	■	■	–	■	■	■	■	■	■	■	–	■	ms4-lfr
	6	■	■	■	■	■	■	■	■	–	■	■	■	■	–	■	ms6-lfr
	9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	■	■	–	■	■	■	■	–	■	–	■	■	–	■	ms12-lfr
Filters MS-LF	4	■	■	■	■	■	–	–	–	–	–	–	–	–	–	■	ms4-lf
	6	■	■	■	■	■	■	–	–	–	–	–	–	–	–	■	ms6-lf
	9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	■	■	–	■	■	–	–	–	–	–	–	–	–	■	ms12-lf
Fine and micro filters MS-LFM	4	■	■	■	■	■	–	–	–	–	–	–	–	–	–	■	ms4-lfm
	6	■	■	■	■	■	■	–	–	–	–	–	–	–	–	■	ms6-lfm
	9	–	■	■	–	■	■	–	–	–	–	–	–	–	–	■	ms9-lfm
	12	–	■	■	–	■	■	–	–	–	–	–	–	–	–	■	ms12-lfm
Activated carbon filters MS-LFX	4	■	■	–	–	–	–	–	–	–	–	–	–	–	–	■	ms4-lfx
	6	■	■	–	–	–	–	–	–	–	–	–	–	–	–	■	ms6-lfx
	9	–	■	–	–	–	–	–	–	–	–	–	–	–	–	■	ms9-lfx
	12	–	■	–	–	–	–	–	–	–	–	–	–	–	–	■	ms12-lfx
Pressure regulators MS-LR	4	–	–	–	–	–	–	■	■	■	■	■	■	■	–	■	ms4-lr
	6	–	–	–	–	–	–	■	■	–	■	■	■	■	–	■	ms6-lr
	9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	■	■	–	■	–	■	■	–	■	ms12-lr
Pressure regulators MS-LRB	4	–	–	–	–	–	–	■	■	■	■	■	■	■	–	■	ms4-lrb
	6	–	–	–	–	–	–	■	■	–	■	■	■	■	–	■	ms6-lrb
	9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Precision pressure regulators MS-LRP	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	6	–	–	–	–	–	–	■	–	■	■	■	■	■	–	■	ms6-lrp
	9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Precision pressure regulators MS-LRPB	4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	6	–	–	–	–	–	–	■	–	■	■	■	■	■	–	■	ms6-lrpb
	9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Service units MSB-FRC, MS series

Product range overview – MS series service units

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Type	Size	Pneumatic connection in housing	Connecting plate	Pressure regulation range [bar]				Supply voltage			
				0.3 ... 4	0.3 ... 7	0.5 ... 12	0.5 ... 16	24 V DC, connection pattern to EN 175301	24 V DC, connection pattern M12 to DESINA	110 V AC, connection pattern to EN 175301	230 V AC, connection pattern to EN 175301
Code			AG...	D5	D6	D7	D8	V24	V24P	V110	V230
Individual devices											
Electrical pressure regulators MS-LRE		4	–					–	–	–	–
		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	■	■	■	■	–	–	–
		9	–								
		12	–								
Lubricators MS-LOE		4	G ¹ / ₈ , G ¹ / ₄	G ¹ / ₈ , G ¹ / ₄ , G ³ / ₈	–	–	–	–	–	–	–
		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	–	–	–	–	–	–	–
		9	–								
		12	–	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	–	–	–	–	–	–	–
Electrical on-off valves MS-EM(1)		4	G ¹ / ₈ , G ¹ / ₄	G ¹ / ₈ , G ¹ / ₄ , G ³ / ₈	–	–	–	–	–	–	–
		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	–	–	–	–	–	–	–
		9	–								
		12	–	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	–	–	–	–	–	–	–
Electrical on-off valves MS-EE		4	G ¹ / ₈ , G ¹ / ₄	G ¹ / ₈ , G ¹ / ₄ , G ³ / ₈	–	–	–	–	■	–	■
		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	–	–	–	–	■	–	■
		9	–								
		12	–	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	–	–	–	–	■	■	■
Electrical soft-start valves MS-DL		4	G ¹ / ₈ , G ¹ / ₄	G ¹ / ₈ , G ¹ / ₄ , G ³ / ₈	–	–	–	–	–	–	–
		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	–	–	–	–	–	–	–
		9	–								
		12	–	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	–	–	–	–	–	–	–
Electrical soft-start valves MS-DE		4	G ¹ / ₈ , G ¹ / ₄	G ¹ / ₈ , G ¹ / ₄ , G ³ / ₈	–	–	–	–	■	–	■
		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	–	–	–	–	■	–	■
		9	–								
		12	–	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	–	–	–	–	■	■	■
Soft start and exhaust valves MS-SV		4	–								
		6	G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	–	–	–	–	■	–	–
		9	–								
		12	–								
Membrane air dryers MS-LDM1		4	G ¹ / ₈ , G ¹ / ₄	G ¹ / ₈ , G ¹ / ₄ , G ³ / ₈	–	–	–	–	–	–	–
		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	–	–	–	–	–	–	–
		9	–								
		12	–								

Service units MSB-FRC, MS series

Product range overview – MS series service units

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Type	Size	Bowl guard		Pressure indicator					Options		→ Page/ Internet
		Plastic bowl with plastic bowl guard	Metal bowl	Cover plate (without pressure gauge)	Integrated MS pressure gauge	Adapter plate for EN pressure gauge G1/8	Adapter plate for EN pressure gauge G1/4	Pressure sensor with display	Silencer	Flow direction from right to left	
Individual devices											
Electrical pressure regulators MS-LRE	4	-									-
	6	-	-	■	■	-	■	-	-	■	ms6-lre
	9	-									-
	12	-									-
Lubricators MS-LOE	4	■	■	-	-	-	-	-	-	■	ms4-loe
	6	■	■	-	-	-	-	-	-	■	ms6-loe
	9	-									-
	12	-	■	-	-	-	-	-	-	■	ms12-loe
Electrical on-off valves MS-EM(1)	4	-	-	■	■	■	■	■	■	■	ms4-em1
	6	-	-	■	■	-	■	■	■	■	ms6-em1
	9	-									-
	12	-	-	■	■	-	■	-	■	■	ms12-em
Electrical on-off valves MS-EE	4	-	-	■	■	■	■	■	■	■	ms4-ee
	6	-	-	■	■	-	■	■	■	■	ms6-ee
	9	-									-
	12	-	-	■	■	-	■	-	■	■	ms12-ee
Electrical soft-start valves MS-DL	4	-	-	■	■	■	■	■	-	■	ms4-dl
	6	-	-	■	■	-	■	■	-	■	ms6-dl
	9	-									-
	12	-	-	■	■	-	■	-	-	■	ms12-dl
Electrical soft-start valves MS-DE	4	-	-	■	■	■	■	■	-	■	ms4-de
	6	-	-	■	■	-	■	■	-	■	ms6-de
	9	-									-
	12	-	-	■	■	-	■	-	-	■	ms12-de
Soft start and exhaust valves MS-SV	4	-									-
	6	-	-	■	■	-	■	■	■	■	ms6-sv
	9	-									-
	12	-									-
Membrane air dryers MS-LDM1	4	-	■	-	-	-	-	-	-	■	ms4-ldm1
	6	-	■	-	-	-	-	-	-	■	ms6-ldm1
	9	-									-
	12	-									-

Service units MSB-FRC, MS series

Product range overview – MS series service units

FESTO

Type	Size				Pressure regulation range [bar]				Supply voltage				
Code		Pneumatic connection in housing	Connecting plate		0.3 ... 4	0.3 ... 7	0.5 ... 12	0.5 ... 16	24 V DC, connection pattern to EN 175301	24 V DC, connection pattern M12 to DESINA	110 V AC, connection pattern to EN 175301	230 V AC, connection pattern to EN 175301	
			AG...		D5	D6	D7	D8	V24	V24P	V110	V230	
Individual devices													
Branching modules MS-FRM		4	G1/8, G1/4	G1/8, G1/4, G3/8	–	–	–	–	–	–	–	–	
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	–	–	–	–	–	–	–	–	
		9	–										
		12	–	G1, G1¼, G1½, G2	–	–	–	–	–	–	–	–	
Distributor blocks MS-FRM-FRZ		4	G1/4	–	–	–	–	–	–	–	–	–	
		6	G1/2	–	–	–	–	–	–	–	–	–	
		9	–										
		12	–										
Flow sensors MS-SFE		4	–										
		6	G1/2	G1/2	–	–	–	–	–	–	–	–	
		9	–										
		12	–										

Service units MSB-FRC, MS series

Product range overview – MS series service units

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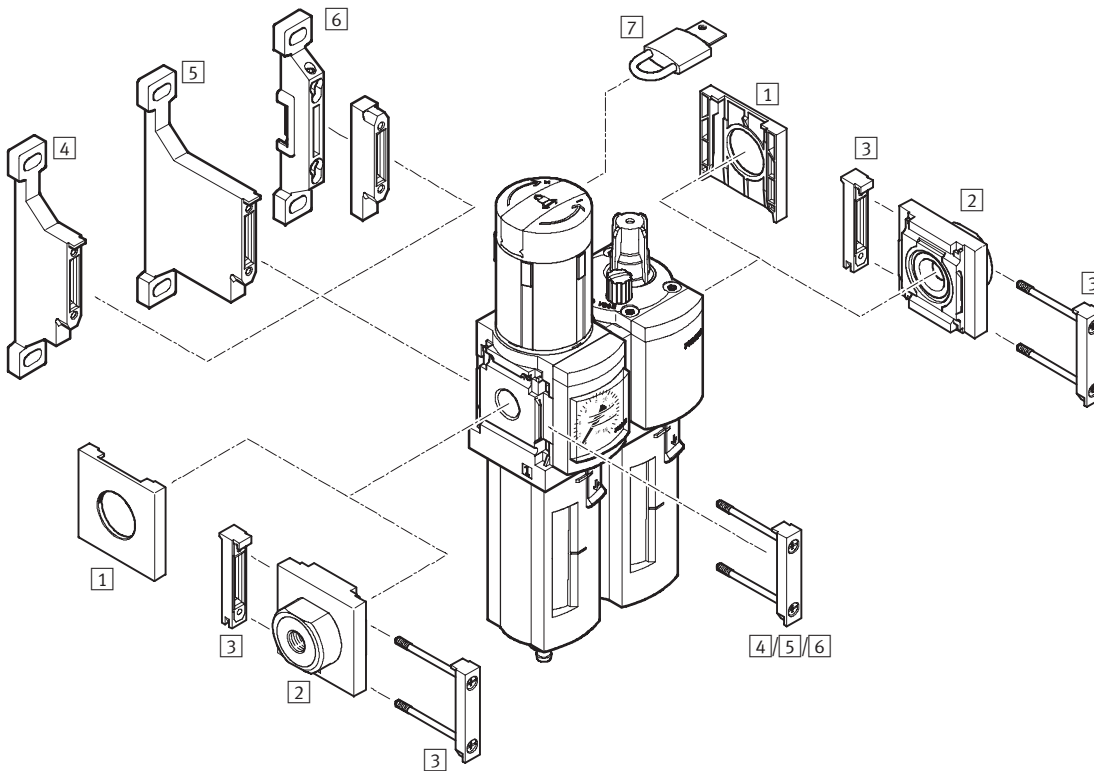
Type	Size	Pressure indicator					Switch output		Options		→ Page/ Internet
		Cover plate (without pressure gauge)	Integrated MS pressure gauge	Adapter plate for EN pressure gauge G1/8	Adapter plate for EN pressure gauge G1/4	Pressure sensor with display	2x PNP	2x NPN	Silencer	Flow direction from right to left	
VS	AG	A8	A4	AD...	P2	N2	S	Z			
Individual devices											
Branching modules MS-FRM	4	■	■	■	■	■	-	-	-	■	ms4-frm
	6	■	■	-	■	■	-	-	-	■	ms6-frm
	9	-									-
	12	■	-	-	-	-	-	-	-	-	ms12-frm
Distributor blocks MS-FRM-FRZ	4	-	-	-	-	-	-	-	-	-	ms4-frm
	6	-	-	-	-	-	-	-	-	-	ms6-frm
	9	-									-
	12	-									-
Flow sensors MS-SFE	4	-									-
	6	-	-	-	-	-	■	■	-	■ ¹⁾	ms6-sfe
	9	-									-
	12	-									-

1) Can only be ordered using the configurator → Internet: ms6-sfe

Service units MSB4/MSB6-FRC, MS series

Peripherals overview

FESTO



Mounting attachments and accessories		→ Page/Internet
1	Cover cap MS4/6-END	ms4-end, ms6-end
2	Connecting plate MS4/6-AG...	ms4-ag, ms6-ag
3	Module connector MS4/6-MV	ms4-mv, ms6-mv
4	Mounting bracket MS4/6-WP	ms4-wp, ms6-wp
5	Mounting bracket MS4/6-WPB	ms4-wp, ms6-wp
6	Mounting bracket MS4/6-WPM	ms4-wp, ms6-wp
7	Padlock LRVS-D	17

Service units MSB4/MSB6-FRC, MS series

Type codes

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		MSB	6	–	3/8	–	FRC2:J6	M1
Series								
MSB	Service unit							
Size								
4	Grid dimension 40 mm							
6	Grid dimension 62 mm							
Pneumatic connection								
1/8	Thread G1/8							
1/4	Thread G1/4							
3/8	Thread G3/8							
1/2	Thread G1/2							
Service unit consisting of:								
- Filter regulator with pressure gauge, lockable standard type rotary knob - Lubricator								
Pressure regulation range 0.3 ... 7 bar								
Plastic bowl guard								
FRC3:J7	Grade of filtration 5 µm, manual rotary condensate drain							
FRC4:J8	Grade of filtration 5 µm, fully automatic condensate drain							
FRC1:J5	Grade of filtration 40 µm, manual rotary condensate drain							
FRC2:J6	Grade of filtration 40 µm, fully automatic condensate drain							
Pressure regulation range 0.5 ... 12 bar								
Plastic bowl guard								
FRC7:J3	Grade of filtration 5 µm, manual rotary condensate drain							
FRC8:J4	Grade of filtration 5 µm, fully automatic condensate drain							
FRC5:J1	Grade of filtration 40 µm, manual rotary condensate drain							
FRC6:J2	Grade of filtration 40 µm, fully automatic condensate drain							
Metal bowl								
FRC11:J9	Grade of filtration 5 µm, manual rotary condensate drain							
FRC12:J10	Grade of filtration 5 µm, fully automatic condensate drain							
FRC9:J11	Grade of filtration 40 µm, manual rotary condensate drain							
FRC10:J12	Grade of filtration 40 µm, fully automatic condensate drain							
Lubricators								
M1	Plastic bowl guard							
M2	Metal bowl							

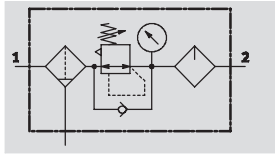
Service units MSB4/MSB6-FRC, MS series

FESTO

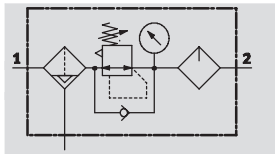
Technical data

Function

With condensate drain
manual rotary



With condensate drain
fully automatic



-  - Flow rate
800 ... 4,800 l/min
-  - Temperature range
-10 ... +60 °C
-  - Input pressure
1.5 ... 20 bar



- 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 → 17, Festo special oil → 17

General technical data					
Size	MSB4		MSB6		
Pneumatic connection 1, 2	G1/8	G1/4	G1/4	G3/8	G1/2
Design	Filter regulator with pressure gauge				
	Proportional standard mist lubricator				
Regulating function	With primary pressure compensation				
	With secondary venting				
	With return flow function				
	Output pressure constant				
Type of mounting	Via accessories				
Assembly position	Vertical ±5°				
Grade of filtration [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)				
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)				
Bowl guard	Plastic bowl guard		Plastic bowl guard		
	–		Metal bowl guard		
Condensate drains	Manual rotary				
	Fully automatic				
Actuator lock	Rotary knob with integrated lock				
Pressure regulation range [bar]	0.3 ... 7				
	0.5 ... 12				
Pressure indicator	With pressure gauge				

-  - Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Service units MSB4/MSB6-FRC, MS series

FESTO

Technical data

Standard nominal flow rate $q_{nN}^{1)}$ [l/min]						
Size	MSB4			MSB6		
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$		G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$
Pressure regulation range 0.3... 7 bar						
Grade of filtration	5 μ m	900	1,300	2,000	4,400	4,600
	40 μ m	950	1,400	2,100	4,600	4,800
Pressure regulation range 0.5... 12 bar						
Grade of filtration	5 μ m	800	850	1,700	3,400	3,600
	40 μ m	850	900	1,900	3,500	3,700

1) Measured at $p_1 = 10$ bar and $p_2 = 6$ bar, $\Delta p = 1$ bar.

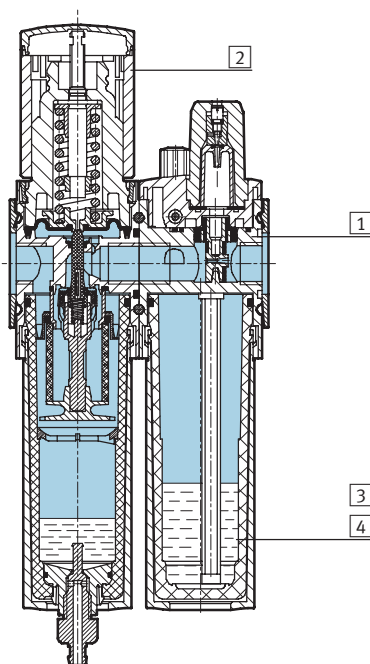
Operating and environmental conditions					
Condensate drains		Manual rotary		Fully automatic	
Size		MSB4	MSB6	MSB4	MSB6
Supply pressure	[bar]	1.5 ... 14	1.5 ... 20	1.5 ... 12	1.5 ... 12
Operating medium		Compressed air			
Ambient temperature	[°C]	-10 ... +60		+5 ... +60	
Temperature of medium	[°C]	-10 ... +60		+5 ... +60	
Storage temperature	[°C]	-10 ... +60		-10 ... +60	
Corrosion resistance	CRC ¹⁾	2			

1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

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

Materials

Sectional view



Service unit		
1	Body	Die-cast aluminium
2	Regulating knob	Polyamide/polyacetate
3	Plastic bowl guard	Polycarbonate
4	Metal bowl guard	Wrought aluminium alloy
–	Seals	Nitrile rubber

Service units MSB4/MSB6-FRC, MS series

Technical data

FESTO

Standard flow rate q_n as a function of output pressure p_2

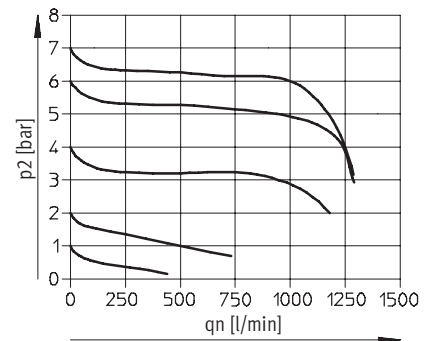
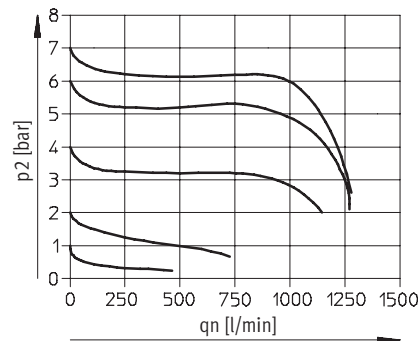
Pressure regulation range 0.3 ... 7 bar

Grade of filtration 5 μm

Grade of filtration 40 μm

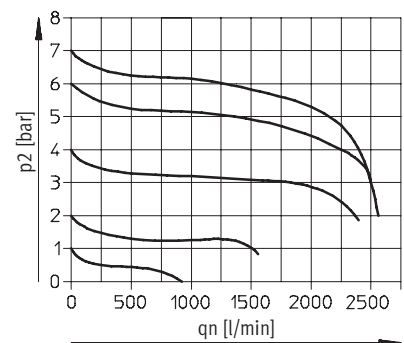
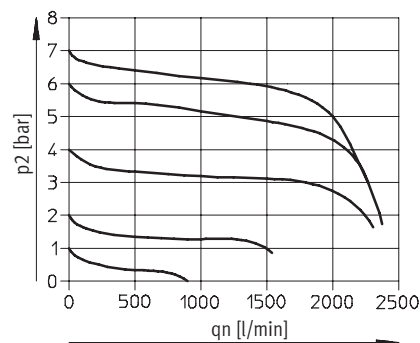
MSB4-1/8

Primary pressure $p_1 = 10$ bar



MSB4-1/4

Primary pressure $p_1 = 10$ bar



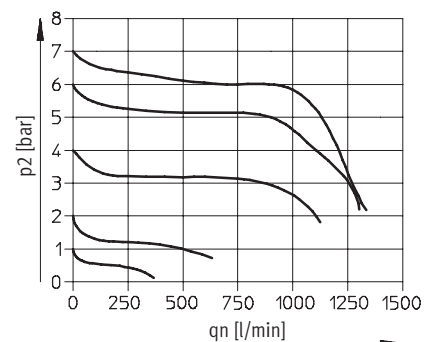
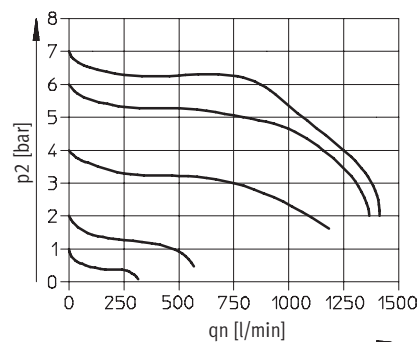
Pressure regulation range 0.5 ... 12 bar

Grade of filtration 5 μm

Grade of filtration 40 μm

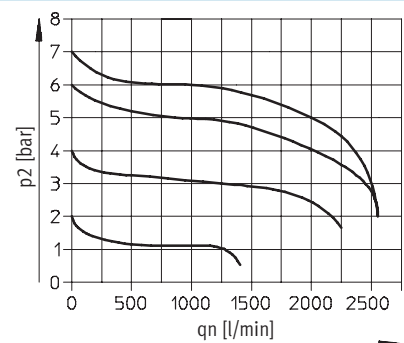
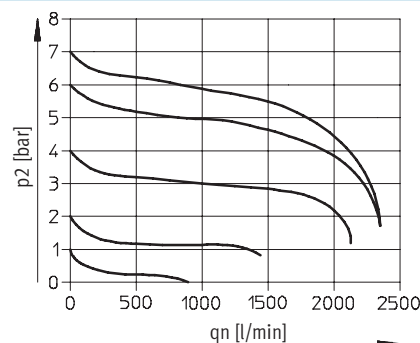
MSB4-1/8

Primary pressure $p_1 = 10$ bar



MSB4-1/4

Primary pressure $p_1 = 10$ bar



Service units MSB4/MSB6-FRC, MS series

Technical data

FESTO

Standard flow rate q_n as a function of output pressure p_2

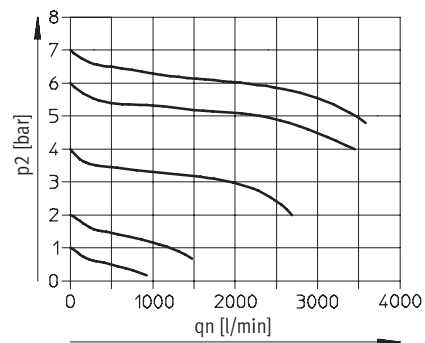
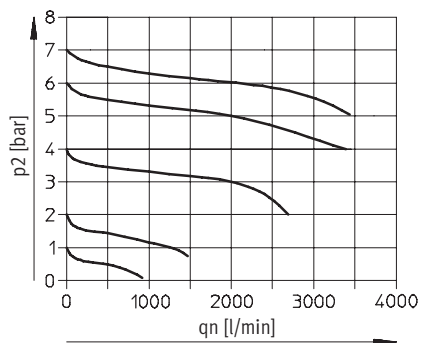
Pressure regulation range 0.3 ... 7 bar

Grade of filtration 5 μm

Grade of filtration 40 μm

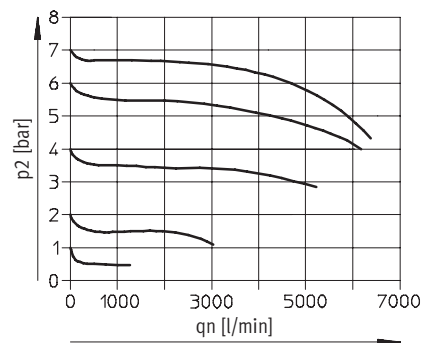
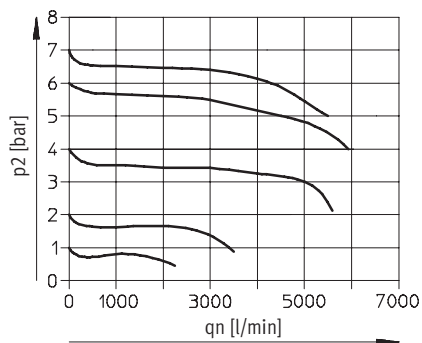
MSB6-1/4

Primary pressure $p_1 = 10$ bar



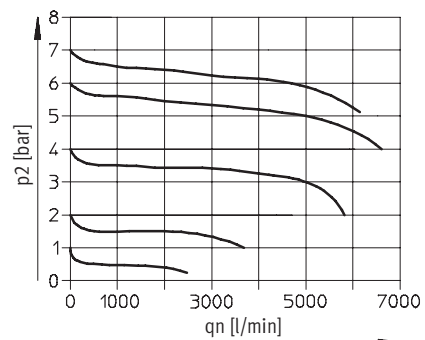
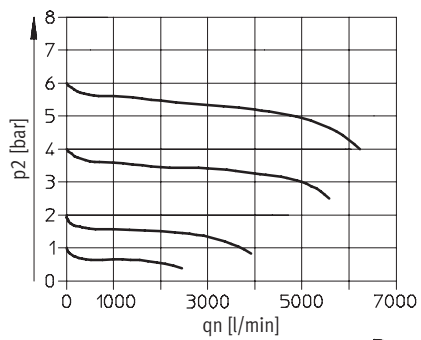
MSB6-3/8

Primary pressure $p_1 = 10$ bar



MSB6-1/2

Primary pressure $p_1 = 10$ bar



Service units MSB4/MSB6-FRC, MS series

FESTO

Technical data

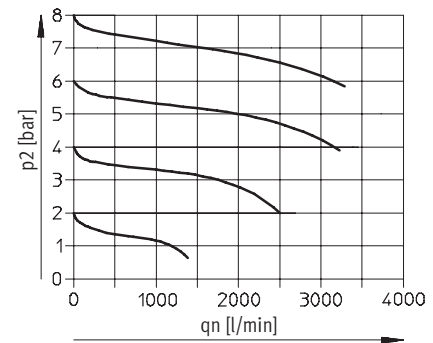
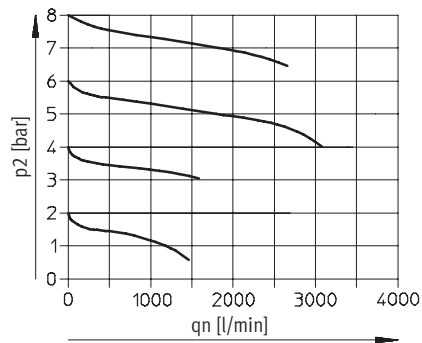
Standard flow rate q_n as a function of output pressure p_2

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

Grade of filtration 40 μm

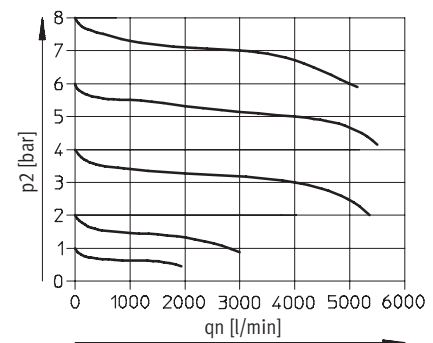
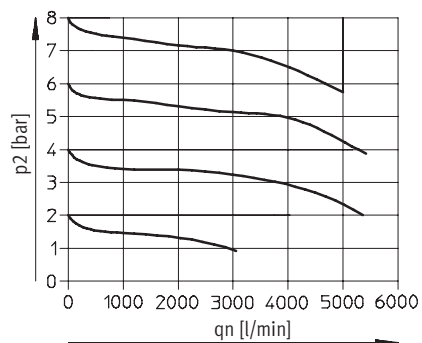
MSB6-1/4

Primary pressure $p_1 = 10$ bar



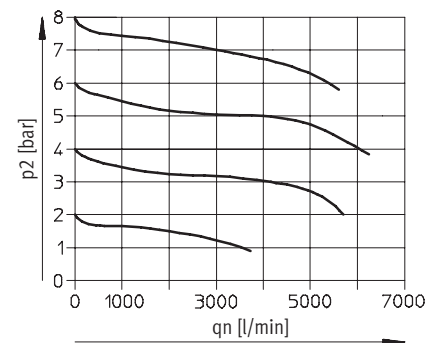
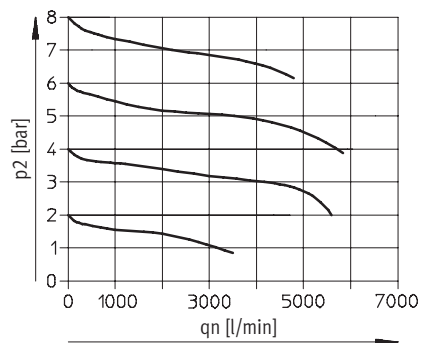
MSB6-3/8

Primary pressure $p_1 = 10$ bar



MSB6-1/2

Primary pressure $p_1 = 10$ bar



Service units MSB4/MSB6-FRC, MS series

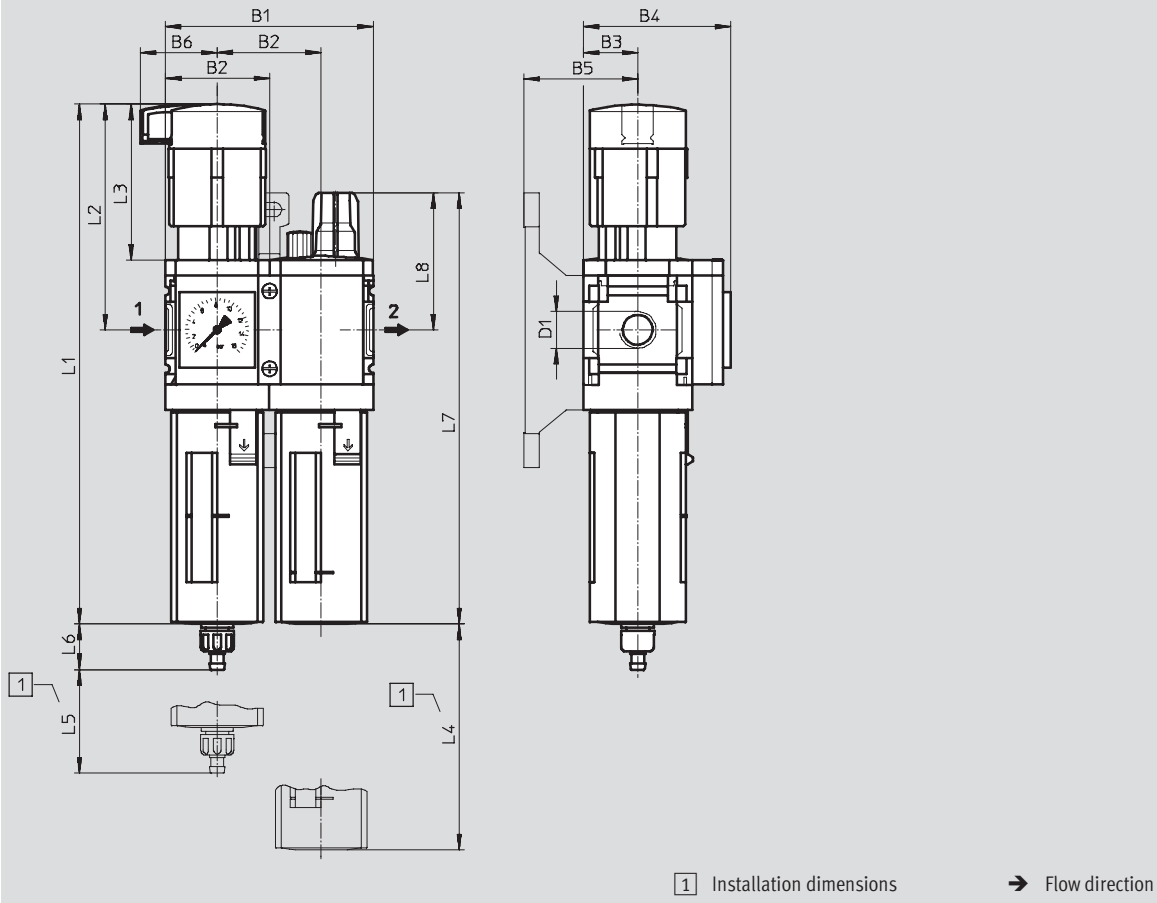
Technical data

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Dimensions

Download CAD data → www.festo.com

With pressure gauge, display unit [bar]



Type	B1	B2	B3	B4	B5	B6	D1	L1	L2	L3	L4	L5	L6		L7	L8
													Condensate drain manual rotary	Condensate drain fully auto- matic		
MSB4-1/8	80.4	40.2	21	57	44	29.7	G1/8	201	87	60	80	25	17.7	20.4	167	53
MSB4-1/4							G3/4									
MSB6-1/4	124	62	31	77	54	38.8	G1/4	284.8	134.5	95.5	130	68	15.8	18.5	215.3	65.6
MSB6-3/8							G3/8									
MSB6-1/2							G1/2									

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Service units MSB4/MSB6-FRC, MS series

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Technical data

Ordering data							
Pressure regulation range 0.3 ... 7 bar							
Size	Condensate drain	Connection	Grade of filtration 5 µm			Grade of filtration 40 µm	
			Part No.	Type	Part No.	Type	
Plastic bowl guard							
MSB4	manual rotary	G1/8	531 129	MSB4-1/8-FRC3:J7M1		531 125	MSB4-1/8-FRC1:J5M1
		G1/4	531 113	MSB4-1/4-FRC3:J7M1		531 109	MSB4-1/4-FRC1:J5M1
	fully automatic	G1/8	531 131	MSB4-1/8-FRC4:J8M1		531 127	MSB4-1/8-FRC2:J6M1
		G1/4	531 115	MSB4-1/4-FRC4:J8M1		531 111	MSB4-1/4-FRC2:J6M1
MSB6	manual rotary	G1/4	530 264	MSB6-1/4-FRC3:J7M1		530 254	MSB6-1/4-FRC1:J5M1
		G3/8	530 288	MSB6-3/8-FRC3:J7M1		530 278	MSB6-3/8-FRC1:J5M1
		G1/2	530 240	MSB6-1/2-FRC3:J7M1		530 230	MSB6-1/2-FRC1:J5M1
	fully automatic	G1/4	530 266	MSB6-1/4-FRC4:J8M1		530 262	MSB6-1/4-FRC2:J6M1
		G3/8	530 290	MSB6-3/8-FRC4:J8M1		530 286	MSB6-3/8-FRC2:J6M1
		G1/2	530 242	MSB6-1/2-FRC4:J8M1		530 238	MSB6-1/2-FRC2:J6M1

Ordering data						
Pressure regulation range 0.5 ... 12 bar						
Size	Condensate drain	Connection	Grade of filtration 5 µm			Grade of filtration 40 µm
			Part No.	Type		Part No. Type
Plastic bowl guard						
MSB4	manual rotary	G1/8	531 137	MSB4-1/8-FRC7:J3M1		531 133 MSB4-1/8-FRC5:J1M1
		G1/4	531 121	MSB4-1/4-FRC7:J3M1		531 117 MSB4-1/4-FRC5:J1M1
	fully automatic	G1/8	531 139	MSB4-1/8-FRC8:J4M1		531 135 MSB4-1/8-FRC6:J2M1
		G1/4	531 123	MSB4-1/4-FRC8:J4M1		531 119 MSB4-1/4-FRC6:J2M1
MSB6	manual rotary	G1/4	530 272	MSB6-1/4-FRC7:J3M1		530 268 MSB6-1/4-FRC5:J1M1
		G3/8	530 296	MSB6-3/8-FRC7:J3M1		530 292 MSB6-3/8-FRC5:J1M1
		G1/2	530 248	MSB6-1/2-FRC7:J3M1		530 244 MSB6-1/2-FRC5:J1M1
	fully automatic	G1/4	530 274	MSB6-1/4-FRC8:J4M1		530 270 MSB6-1/4-FRC6:J2M1
		G3/8	530 298	MSB6-3/8-FRC8:J4M1		530 294 MSB6-3/8-FRC6:J2M1
		G1/2	530 250	MSB6-1/2-FRC8:J4M1		530 246 MSB6-1/2-FRC6:J2M1
Metal bowl						
MSB6	manual rotary	G1/4	530 258	MSB6-1/4-FRC11:J9M2		530 276 MSB6-1/4-FRC9:J11M2
		G3/8	530 282	MSB6-3/8-FRC11:J9M2		530 300 MSB6-3/8-FRC9:J11M2
		G1/2	530 234	MSB6-1/2-FRC11:J9M2		530 252 MSB6-1/2-FRC9:J11M2
	fully automatic	G1/4	530 260	MSB6-1/4-FRC12:J10M2		530 256 MSB6-1/4-FRC10:J12M2
		G3/8	530 284	MSB6-3/8-FRC12:J10M2		530 280 MSB6-3/8-FRC10:J12M2
		G1/2	530 236	MSB6-1/2-FRC12:J10M2		530 232 MSB6-1/2-FRC10:J12M2

Service units MSB-FRC, MS series

Accessories

FESTO

Filter cartridges



Ordering data			
Size	Grade of filtration [μm]	Part No.	Type
MS4	5	534 501	MS4-LFP-C
	40	534 502	MS4-LFP-E
MS6	5	534 499	MS6-LFP-C
	40	534 500	MS6-LFP-E

Special oil



Ordering data			
Scope of delivery		Part No.	Type
1 litre		152 811	OFSW-32

Ordering data – Padlock LRVS-D			
	Weight [g]	Part No.	Type
	120	193 786	LRVS-D