

## Service unit combinations MSB-FRC, MS series

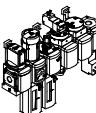
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# Service unit combinations MSB-FRC, MS series

Product range overview – MS series service units

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Type	Size	Pneumatic connection in housing	Connecting plate	Pressure regulation range [bar]						Grade of filtration [ $\mu\text{m}$ ]			
				0.05	0.05	0.1	0.3	0.1	0.5	0.01	1	5	40
Code	AG...			D2	D4	D5	D6	D7	D8	A	B	C	E
<b>Service unit combinations</b>													
<b>MSB-FRC</b>		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	–	–	–	–	–	–	–	–	–	–	–
<b>Service unit combinations (further variants can be ordered using the configurator → Internet: msb4, msb6 or msb9)</b>													
<b>MSB</b>		4	G1/4	G1/8, G1/4, G3/8	–	–	–	■	■	–	–	–	■ ■
		6	G1/2	G1/4, G3/8, G1/2, G3/4	–	–	–	■	■	–	–	–	■ ■
		9	–	–	–	–	–	–	–	–	–	–	–
		12	–	–	–	–	–	–	–	–	–	–	–
<b>Individual devices</b>													
<b>Filter regulators</b>		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, G11/4, G11/2	–	–	■	■	■	■	–	–	■ ■
		12	–	G1, G11/4, G11/2, G2	–	–	–	■	■	■	–	–	■ ■
<b>Filters</b>		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, G11/4, G11/2	–	–	–	–	–	–	–	–	■ ■
		12	–	G1, G11/4, G11/2, G2	–	–	–	–	–	–	–	–	■ ■
<b>Fine and micro filters</b>		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, G11/4, G11/2	–	–	–	–	–	–	■	■	–
		12	–	G1, G11/4, G11/2, G2	–	–	–	–	–	–	■	■	–
<b>Activated carbon filters</b>		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, G11/4, G11/2	–	–	–	–	–	–	–	–	–
		12	–	G1, G11/4, G11/2, G2	–	–	–	–	–	–	–	–	–
<b>Water separators</b>		4	–	–	–	–	–	–	–	–	–	–	–
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	–	–	–	–	–	–	–	–	–
		9	G3/4, G1	G1/2, G3/4, G1, G11/4, G11/2	–	–	–	–	–	–	–	–	–
		12	–	G1, G11/4, G11/2, G2	–	–	–	–	–	–	–	–	–

# Service unit combinations MSB-FRC, MS series

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Product range overview – MS series service units

Type	Size	Bowl guard		Condensate drains				Pressure indicator				Security		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 G <sup>1</sup> / <sub>8</sub>	Adapter plate for EN pressure gauge G <sup>1</sup> / <sub>4</sub>	Pressure sensor	Rotary knob with detent, lockable via accessories	Rotary knob with integrated lock	Silencer	Flow direction from right to left		
Code		R	U	M	H	V	E...	VS	AG	A8	A4	AD...	AS	E11	S	Z		
<b>Service unit combinations</b>																		
MSB-FRC	4	■	–	■	–	■	–	–	■	–	–	–	■	–	–	■	8	
	6	■	■	■	–	■	–	–	■	–	–	–	■	–	–	■	8	
	9	–															–	
	12	–															–	
<b>Service unit combinations</b>																		
MSB	4	■	■	■	–	■	–	–	■	–	–	–	■	–	–	■	msb4	
	6	■	■	■	–	■	–	–	■	–	–	–	■	–	–	■	msb6	
	9	–															–	
	12	–															–	
<b>Individual devices</b>																		
Filter regulators MS-LFR	4	■	■	■	■	■	■	–	■	■	■	■	■	■	■	–	■	ms4-lfr
	6	■	■	■	■	■	■	■	■	■	■	■	■	■	■	–	■	ms6-lfr
	9	–	■	■	■	■	■	■	■	■	■	–	■	■	■	–	■	ms9-lfr
	12	–	■	■	■	–	■	■	■	■	–	■	–	■	■	–	■	ms12-lfr
Filters MS-LF	4	■	■	■	■	■	■	–	–	–	–	–	–	–	–	–	■	ms4-lf
	6	■	■	■	■	■	■	■	■	–	–	–	–	–	–	–	■	ms6-lf
	9	–	■	■	■	■	■	■	■	–	–	–	–	–	–	–	■	ms9-lf
	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
Water separators MS-LWS	4	–															–	
	6	–	■	–	–	■	■	–	–	–	–	–	–	–	–	–	■	ms6-lws
	9	–	■	–	–	■	■	–	–	–	–	–	–	–	–	–	■	ms9-lws
	12	–	■	–	–	–	■	■	–	–	–	–	–	–	–	–	■	ms12-lws

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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			
				0.05 ...	0.05 2.5	0.1 4	0.3 7	0.1 12	0.5 16	24 V DC, connection pattern to EN 175301.	24 V DC, connection M12 to IEC 61076-2-101	110 V AC, connection pattern to EN 175301.	230 V AC, connection pattern to EN 175301.
Code	AG...	D2	D4	D5	D6	D7	D8	V24	V24P	V110	V230		
<b>Individual devices</b>													
Pressure regulators <b>MS-LR</b>		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, G11/4, G11/2	-	-	■	■	■	■	-	-	-
		12	-	G1, G11/4, G11/2, G2	-	-	-	■	■	■	-	-	-
Pressure regulators <b>MS-LRB</b>		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 <b>MS-LRP</b>		4	-										
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	■	■	■	-	■	-	-	-	-
		9	-										
		12	-										
Precision pressure regulators <b>MS-LRPB</b>		4	-										
		6	G1/2	G1/4, G3/8, G1/2, G3/4	■	■	■	-	■	-	-	-	-
		9	-										
		12	-										
Electrical pressure regulators <b>MS-LRE</b>		4	-										
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	-	-	■	■	■	■	-	-	-
		9	-										
		12	-										
Lubricators <b>MS-LOE</b>		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, G11/4, G11/2	-	-	-	-	-	-	-	-	-
		12	-	G1, G11/4, G11/2, G2	-	-	-	-	-	-	-	-	-
On-off valves, manually actuated <b>MS-EM(1)</b>		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, G11/4, G11/2	-	-	-	-	-	-	-	-	-
		12	-	G1, G11/4, G11/2, G2	-	-	-	-	-	-	-	-	-
On-off valves, electrically actuated <b>MS-EE</b>		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, G11/4, G11/2	-	-	-	-	-	■	■	■	■
		12	-	G1, G11/4, G11/2, G2	-	-	-	-	-	■	■	■	■
Soft-start valves, pneumatically actuated <b>MS-DL</b>		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, G11/4, G11/2, G2	-	-	-	-	-	-	-	-	-
Soft-start valves, electrically actuated <b>MS-DE</b>		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, G11/4, G11/2, G2	-	-	-	-	-	■	■	■	■

# Service unit combinations MSB-FRC, MS series

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Product range overview – MS series service units

Type	Size	Bowl guard		Pressure indicator					Security		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 G <sup>1</sup> / <sub>8</sub>	Adapter plate for EN pressure gauge G <sup>1</sup> / <sub>4</sub>	Pressure sensor	Rotary knob with detent, lockable via accessories	Rotary knob with integrated lock	Silencer	Flow direction from right to left	
Code		R	U	VS	AG	A8	A4	AD...	AS	E11	S	Z	
<b>Individual devices</b>													
Pressure regulators <b>MS-LR</b>	4	–	–	■	■	■	■	■	■	■	–	■	ms4-lr
	6	–	–	■	■	–	■	■	■	■	–	■	ms6-lr
	9	–	–	■	■	–	■	■	■	■	–	■	ms9-lr
	12	–	–	■	■	–	■	–	■	■	–	■	ms12-lr
Pressure regulators <b>MS-LRB</b>	4	–	–	■	■	■	■	■	■	■	–	■	ms4-lrb
	6	–	–	■	■	–	■	■	■	■	–	■	ms6-lrb
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–
Precision pressure regulators <b>MS-LRP</b>	4	–	–	–	–	–	–	–	–	–	–	–	–
	6	–	–	■	–	■	■	■	■	■	–	■	ms6-lrp
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–
Precision pressure regulators <b>MS-LRPB</b>	4	–	–	–	–	–	–	–	–	–	–	–	–
	6	–	–	■	–	■	■	■	■	■	–	■	ms6-lrbp
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–
Electrical pressure regulators <b>MS-LRE</b>	4	–	–	–	–	–	–	–	–	–	–	–	–
	6	–	–	■	■	–	■	–	–	–	–	■	ms6-lre
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–
Lubricators <b>MS-LOE</b>	4	■	■	–	–	–	–	–	–	–	–	■	ms4-loe
	6	■	■	–	–	–	–	–	–	–	–	■	ms6-loe
	9	–	■	–	–	–	–	–	–	–	–	■	ms9-loe
	12	–	■	–	–	–	–	–	–	–	–	■	ms12-loe
On-off valves, manually actuated <b>MS-EM(1)</b>	4	–	–	■	■	■	■	■	■	–	–	■	ms4-em1
	6	–	–	■	■	–	■	■	■	–	–	■	ms6-em1
	9	–	–	■	■	–	■	–	–	–	–	■	ms9-em
	12	–	–	■	■	–	■	–	–	–	–	■	ms12-em
On-off valves, electrically actuated <b>MS-EE</b>	4	–	–	■	■	■	■	■	■	–	–	■	ms4-ee
	6	–	–	■	■	–	■	■	■	–	–	■	ms6-ee
	9	–	–	■	■	–	■	–	–	–	–	■	ms9-ee
	12	–	–	■	■	–	■	–	–	–	–	■	ms12-ee
Soft-start valves, pneumatically actuated <b>MS-DL</b>	4	–	–	■	■	■	■	■	■	–	–	■	ms4-dl
	6	–	–	■	■	–	■	■	■	–	–	■	ms6-dl
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	■	■	–	■	–	–	–	–	■	ms12-dl
Soft-start valves, electrically actuated <b>MS-DE</b>	4	–	–	■	■	■	■	■	■	–	–	■	ms4-de
	6	–	–	■	■	–	■	■	■	–	–	■	ms6-de
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	■	■	–	■	–	–	–	–	■	ms12-de

# Service unit combinations MSB-FRC, MS series

Product range overview – MS series service units

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Type	Size	Pneumatic connection in housing	Connecting plate	Performance Level			Supply voltage			
				Category 1, 1-channel	Category 3, 2-channel	Category 4, 2-channel with self-monitoring	24 V DC, connection pattern to EN 175301	24 V DC, connection M12 to IEC 61076-2-101 / to EN 60947-5-2	110 V AC, connection pattern to EN 175301	230 V AC, connection pattern to EN 175301
Code		AG...		C	D	E	V24	V24P	V110	V230
<b>Individual devices</b>										
Soft start and exhaust valves <b>MS-SV-C</b>		4	–							
		6	G1/2	G1/4, G3/8, G1/2, G3/4	■	–	–	■	■	■
		9	G3/4, G1	G1/2, G3/4, G1, G11/4, G11/2	■	–	–	■	■	■
		12	–							
Soft start and exhaust valves <b>MS-SV-D</b>		4	–							
		6	G1/2	G1/4, G3/8, G1/2, G3/4	–	■	–	■	■	–
		9	–							
		12	–							
Soft start and exhaust valves <b>MS-SV-E</b>		4	–							
		6	G1/2	G1/4, G3/8, G1/2, G3/4	–	–	■	■	–	–
		9	–							
		12	–							
Membrane air dryers <b>MS-LDM1</b>		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	–							
Branching modules <b>MS-FRM</b>		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, G11/4, G11/2	–	–	–	–	–	–
		12	–	G1, G11/4, G11/2, G2	–	–	–	–	–	–
Distributor blocks <b>MS-FRM-FRZ</b>		4	G1/4	–	–	–	–	–	–	–
		6	G1/2	–	–	–	–	–	–	–
		9	–							
		12	–							
Flow sensors <b>SFAM</b>		4	–							
		6	G1/2	G1/2	–	–	–	–	–	–
		9	–	G1, G11/2	–	–	–	–	–	–
		12	–							

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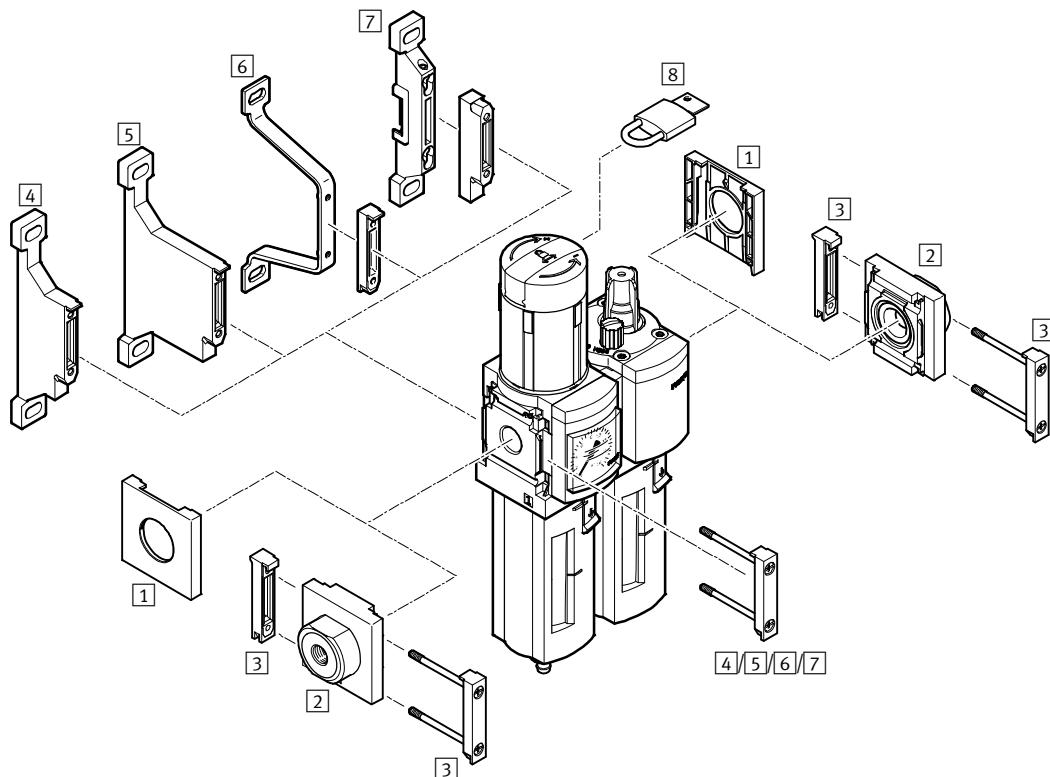
Product range overview – MS series service units

Type	Size	Bowl guard		Pressure indicator					Switch output		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	2x PNP or NPN, 1 analogue output 4 ... 20 mA	2x PNP or NPN, 1 analogue output 0 ... 10 V	Silencer	Flow direction from right to left	
Code		R	U	VS	AG	A8	A4	AD...	2SA	2SV	S	Z/R	
<b>Individual devices</b>													
<b>MS-SV-C</b>	4	–											–
	6	–	–	■	■	–	■	■	–	–	■	■	ms6-sv
	9	–	–	■	■	–	■	■	–	–	■	■	ms9-sv
	12	–											–
<b>MS-SV-D</b>	4	–											–
	6	–	–	■	■	–	■	■	–	–	■	■	ms6-sv
	9	–											–
	12	–											–
<b>MS-SV-E</b>	4	–											–
	6	–	–	■	■	–	■	■	–	–	■	■	ms6-sv
	9	–											–
	12	–											–
<b>MS-LDM1</b>	4	–	■	–	–	–	–	–	–	–	–	■	ms4-ldm1
	6	–	■	–	–	–	–	–	–	–	–	■	ms6-ldm1
	9	–											–
	12	–											–
<b>MS-FRM</b>	4	–	–	■	■	■	■	■	–	–	–	■	ms4-frm
	6	–	–	■	■	–	■	■	–	–	–	■	ms6-frm
	9	–	–	■	■	–	■	■	–	–	–	■	ms9-frm
	12	–	–	■	–	–	–	–	–	–	–	–	ms12-frm
<b>MS-FRM-FRZ</b>	4	–	–	–	–	–	–	–	–	–	–	■	ms4-frm
	6	–	–	–	–	–	–	–	–	–	–	■	ms6-frm
	9	–											–
	12	–											–
<b>SFAM</b>	4	–											–
	6	–	–	–	–	–	–	–	■	■	–	■	sfam-62
	9	–	–	–	–	–	–	–	■	■	–	■	sfam-90
	12	–											–

# Service unit combinations MSB4/MSB6-FRC, MS series

Peripherals overview

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Mounting attachments and accessories		➔ Page/Internet
[1]	Cover cap MS4/6-END	ms4-end, ms6-end
[2]	Connecting plate-SET 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-WPE	ms4-wp, ms6-wp
[7]	Mounting bracket MS4/6-WPM	ms4-wp, ms6-wp
[8]	Padlock LRVS-D	16

## Service unit combinations MSB4/MSB6-FRC, MS series

Type codes

MSB	6	-	$\frac{3}{8}$	-	FRC5:J1	M1						
<b>Series</b>												
MSB	Service unit combination											
<b>Size</b>												
4	Grid dimension 40 mm											
6	Grid dimension 62 mm											
<b>Pneumatic connection</b>												
MSB4												
1/8	Thread G1/8											
1/4	Thread G3/4											
MSB6												
1/4	Thread G1/4											
3/8	Thread G3/8											
1/2	Thread G1/2											
<b>Service unit combination consisting of:</b>												
<ul style="list-style-type: none"> <li>• Filter regulator with pressure gauge, rotary knob with detent, lockable via accessories</li> <li>• Lubricator</li> </ul>												
<b>Pressure regulation range 0.3 ... 7 bar</b>												
Plastic bowl guard												
FRC1:J5	Grade of filtration 40 µm, manual rotary condensate drain, pressure gauge with outer scale in bar and inner scale in psi											
FRC13:J120	Grade of filtration 40 µm, manual rotary condensate drain, pressure gauge with outer scale in MPa											
<b>Pressure regulation range 0.5 ... 12 bar</b>												
Plastic bowl guard												
FRC7:J3	Grade of filtration 5 µm, manual rotary condensate drain, pressure gauge with outer scale in bar and inner scale in psi											
FRC5:J1	Grade of filtration 40 µm, manual rotary condensate drain, pressure gauge with outer scale in bar and inner scale in psi											
FRC6:J2	Grade of filtration 40 µm, fully automatic condensate drain, pressure gauge with outer scale in bar and inner scale in psi											
<b>Metal bowl</b>												
FRC11:J9	Grade of filtration 5 µm, manual rotary condensate drain, pressure gauge with outer scale in bar and inner scale in psi											
FRC12:J10	Grade of filtration 5 µm, fully automatic condensate drain, pressure gauge with outer scale in bar and inner scale in psi											
FRC9:J11	Grade of filtration 40 µm, manual rotary condensate drain, pressure gauge with outer scale in bar and inner scale in psi											
FRC10:J12	Grade of filtration 40 µm, fully automatic condensate drain, pressure gauge with outer scale in bar and inner scale in psi											
<b>Lubricators</b>												
M1	Plastic bowl guard											
M2	Metal bowl											

**- New**  
**MSB4/6...J120M1**

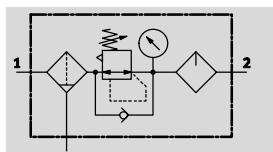
## Service unit combinations MSB4/MSB6-FRC, MS series

Technical data

**FESTO**

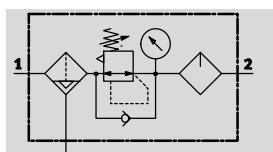
### Function

With condensate drain  
manual rotary



- Flow rate  
850 ... 4,800 l/min
- Temperature range  
-10 ... +60 °C
- Operating pressure  
1.5 ... 20 bar

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	G1/8	–
	G1/4	G1/4
	–	G3/8
	–	G1/2
Design	Filter regulator with pressure gauge	
	Proportional standard mist lubricator	
Regulating function	Output pressure constant, with primary pressure compensation, 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

## Service unit combinations MSB4/MSB6-FRC, MS series

Technical data

Standard nominal flow rate $q_{nN}^1$ [l/min]						
Size	MSB4		MSB6			
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 range 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  $p_1 = 10$  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		
Operating pressure [bar]	1.5 ... 14	1.5 ... 20	2 ... 12	2 ... 12		
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [-:4:-]		Compressed air in accordance with ISO 8573-1:2010 [7:4:-]			
Inert gases						
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be required)				
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 <sup>1)</sup>	2				

1) Corrosion resistance class 2 according to Festo standard 940 070

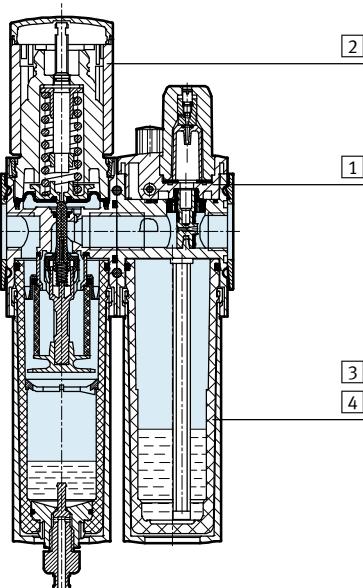
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

### Weights [g]

Size	MSB4	MSB6
With plastic bowl guard	500	1,495
With metal bowl	-	1,713

### Materials

#### Sectional view



#### 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

**- New**  
**MSB4/6...J120M1**

## Service unit combinations MSB4/MSB6-FRC, MS series

Technical data

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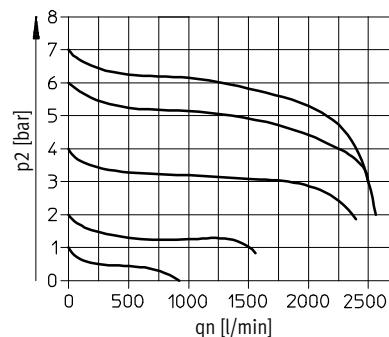
### Standard flow rate $q_n$ as a function of output pressure $p_2$

Pressure regulation range 0.3 ... 7 bar      Grade of filtration 5 µm

MSB4-1/4

Primary pressure  $p_1 = 10$  bar

Grade of filtration 40 µm

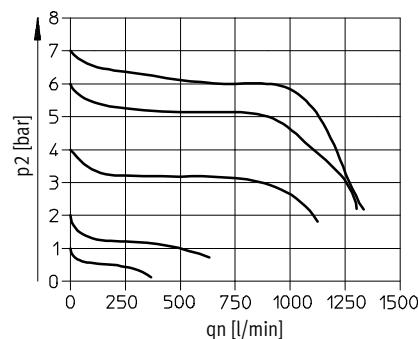


Pressure regulation range 0.5 ... 12 bar      Grade of filtration 5 µm

MSB4-1/8

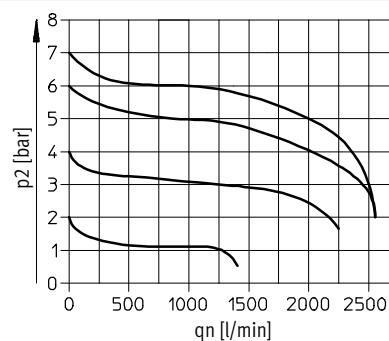
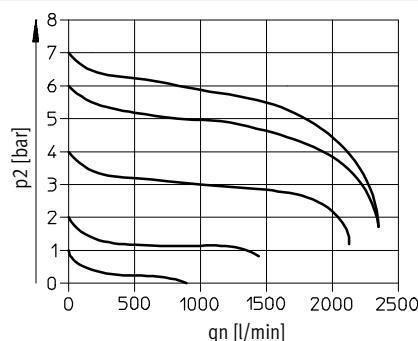
Primary pressure  $p_1 = 10$  bar

Grade of filtration 40 µm



MSB4-1/4

Primary pressure  $p_1 = 10$  bar



## Service unit combinations MSB4/MSB6-FRC, MS series

Technical data

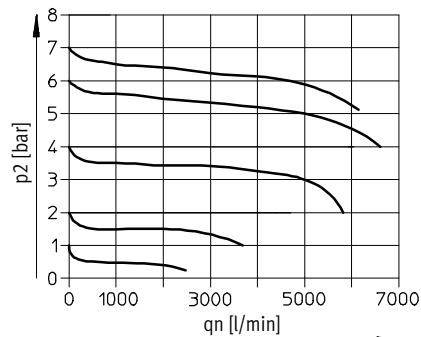
**FESTO**

### 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  
MSB6-1/2

Primary pressure  $p_1 = 10$  bar

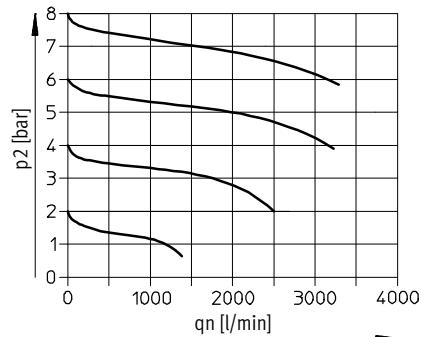
Grade of filtration 40 µm



Pressure regulation range 0.5 ... 12 bar      Grade of filtration 5 µm  
MSB6-1/4

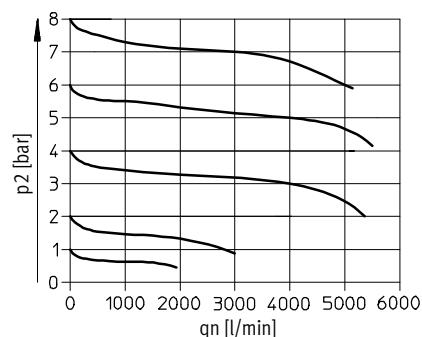
Primary pressure  $p_1 = 10$  bar

Grade of filtration 40 µm



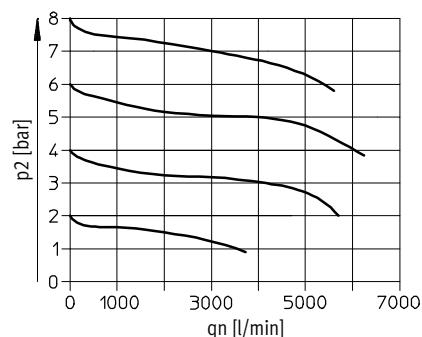
### MSB6-3/8

Primary pressure  $p_1 = 10$  bar



### MSB6-1/2

Primary pressure  $p_1 = 10$  bar



**New**  
**MSB4/6...J120M1**

## Service unit combinations MSB4/MSB6-FRC, MS series

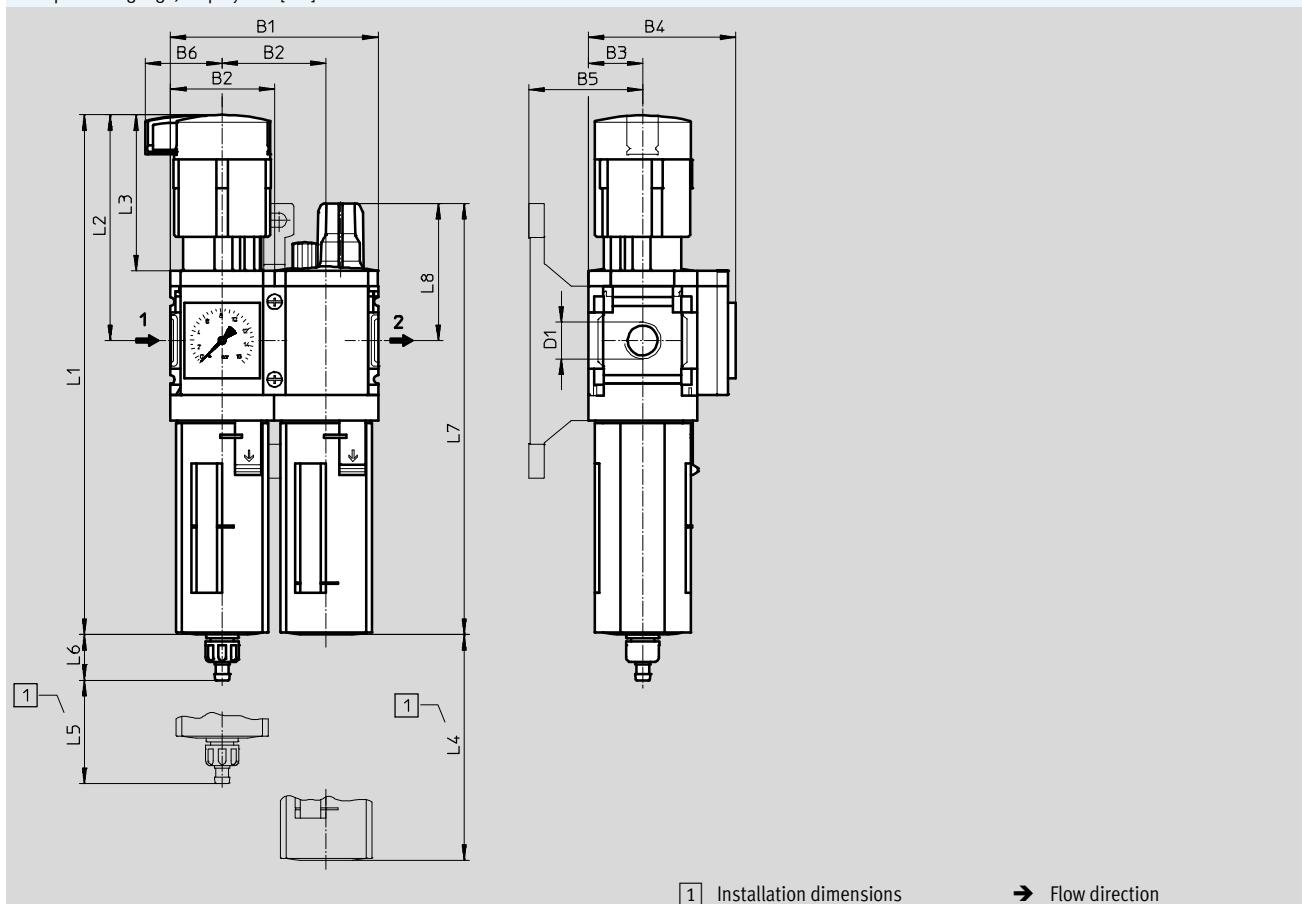
Technical data

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### Dimensions

With pressure gauge, display unit [bar]

Download CAD data ➔ [www.festo.com](http://www.festo.com)



Type	B1	B2	B3	B4	B5	B6	D1	L1	L2	L3	L4	L5	L6		L7	L8
													Condensate drain			
MSB4-1/8	80.4	40.2	21	57	44	29.7	G1/8 G1/4	201	87	60	80	25	17.7	20.4	167	53
MSB4-1/4																
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 to ISO 1179-1 and to ISO 228-1

## Service unit combinations MSB4/MSB6-FRC, MS series

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, pressure gauge with outer scale in MPa

MSB4	manual rotary	G1/4	-	-	8042669	MSB4-1/4-FRC13:J120M1	-
MSB6	manual rotary	G1/2	-	-	8042673	MSB6-1/2-FRC13:J120M1	-

Plastic bowl guard, pressure gauge with outer scale in bar and inner scale in psi

MSB4	manual rotary	G1/4	-	-	531109	MSB4-1/4-FRC1:J5M1
MSB6	manual rotary	G1/2	-	-	530230	MSB6-1/2-FRC1:J5M1

### 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, pressure gauge with outer scale in bar and inner scale in psi

MSB4	manual rotary	G1/8	-	-	531133	MSB4-1/8-FRC5:J1M1
		G1/4	531121	MSB4-1/4-FRC7:J3M1	531117	MSB4-1/4-FRC5:J1M1
	fully automatic	G1/4	-	-	531119	MSB4-1/4-FRC6:J2M1
MSB6	manual rotary	G1/4	-	-	530268	MSB6-1/4-FRC5:J1M1
		G3/8	-	-	530292	MSB6-3/8-FRC5:J1M1
		G1/2	530248	MSB6-1/2-FRC7:J3M1	530244	MSB6-1/2-FRC5:J1M1
	fully automatic	G1/2	-	-	530246	MSB6-1/2-FRC6:J2M1

Metal bowl, pressure gauge with outer scale in bar and inner scale in psi

MSB6	manual rotary	G1/2	530234	MSB6-1/2-FRC11:J9M2	530252	MSB6-1/2-FRC9:J11M2
		G1/2	530236	MSB6-1/2-FRC12:J10M2	530232	MSB6-1/2-FRC10:J12M2

## Service unit combinations MSB-FRC, MS series

Accessories

**FESTO**

### Filter cartridges



#### Ordering data

Size	Grade of filtration [µm]	Part No.	Type
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.	Type
1 litre	152811	OFSW-32

#### Ordering data – Padlock LRVS-D

	Weight [g]	Part No.	Type
	120	193786	LRVS-D