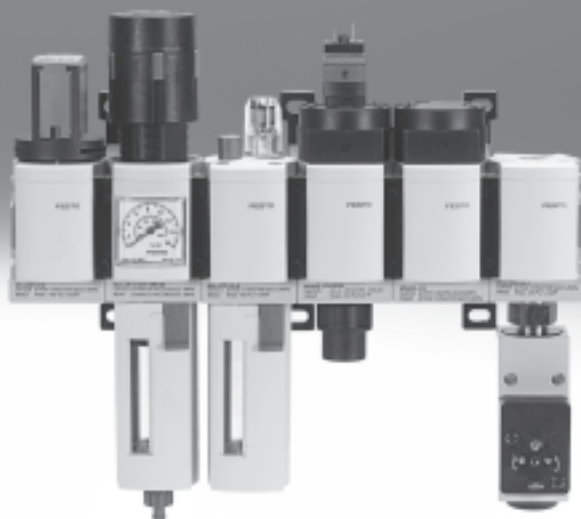


Service unit combinations MSB, MS series

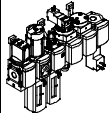
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Service unit combinations MSB, MS series

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Product range overview – MS series service units

Type	Size				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		Pneumatic connection in housing	Connecting plate	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	G3/4, G1	G1/2, G3/4, G1, G11/4, G11/2	–	–	■	■	■	■	–	–	■	■
		12	–	G1, G11/4, G11/2, G2	–	–	–	■	■	■	–	–	■	■
Filters 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	G3/4, G1	G1/2, G3/4, G1, G11/4, G11/2	–	–	–	–	–	–	–	–	■	■
		12	–	G1, G11/4, G11/2, 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, G11/4, G11/2	–	–	–	–	–	–	■	■	–	–
		12	–	G1, G11/4, G11/2, 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, G11/4, G11/2	–	–	–	–	–	–	–	–	–	–
		12	–	G1, G11/4, G11/2, G2	–	–	–	–	–	–	–	–	–	–
Water separators MS-LWS		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	–											

Service unit combinations MSB, 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 G1/8	Adapter plate for EN pressure gauge G1/4	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	
Service units																	
MSB-FRC	4	■	–	■	–	■	–	–	■	–	–	–	■	–	–	■	msb4
	6	■	■	■	–	■	–	–	■	–	–	–	■	–	–	■	msb6
	9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Service unit combinations																	
MSB	4	■	■	■	–	■	–	–	■	–	–	–	■	–	–	■	8
	6	■	■	■	–	■	–	–	■	–	–	–	■	–	–	■	8
	9	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Individual devices																	
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	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Service unit combinations MSB, MS series

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Product range overview – MS series service units

Type	Size	Pneumatic connection in housing	Connecting plate	Pressure regulation range [bar]						Supply voltage			
				0.05 ... 0.7	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 pattern M12 to DESNA	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
Individual devices													
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	G3/4, G1	G1/2, G3/4, G1, G1 1/4, G1 1/2	–	–	■	■	■	–	–	–	–
		12	–	G1, G1 1/4, G1 1/2, 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	–	–	–	–	–	–	–	–	–	–	–
Electrical pressure regulators MS-LRE		4	–	–	–	–	–	–	–	–	–	–	–
		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	–	–	■	■	■	–	–	–	–
		9	–	–	–	–	–	–	–	–	–	–	–
		12	–	–	–	–	–	–	–	–	–	–	–
Lubricators MS-LOE		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, G1 1/4, G1 1/2	–	–	–	–	–	–	–	–	–
		12	–	G1, G1 1/4, G1 1/2, G2	–	–	–	–	–	–	–	–	–
Electrical on-off valves MS-EM(1)		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, G1 1/4, G1 1/2	–	–	–	–	–	–	–	–	–
		12	–	G1, G1 1/4, G1 1/2, G2	–	–	–	–	–	–	–	–	–
Electrical on-off valves MS-EE		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, G1 1/4, G1 1/2	–	–	–	–	–	■	■	■	■
		12	–	G1, G1 1/4, G1 1/2, G2	–	–	–	–	–	■	■	■	■
Electrical soft-start valves MS-DL		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, G1 1/4, G1 1/2, G2	–	–	–	–	–	–	–	–	–
Electrical soft-start valves MS-DE		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, G1 1/4, G1 1/2, G2	–	–	–	–	–	■	■	■	■
Soft start and exhaust valves MS-SV		4	–	–	–	–	–	–	–	–	–	–	–
		6	G1/2	G1/4, G3/8, G1/2, G3/4	–	–	–	–	–	■	–	–	–
		9	–	–	–	–	–	–	–	–	–	–	–
		12	–	–	–	–	–	–	–	–	–	–	–

Service unit combinations MSB, MS series

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 G1/8	Adapter plate for EN pressure gauge G1/4	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	
Individual devices													
Pressure regulators MS-LR	4	–	–	■	■	■	■	■	■	■	–	■	ms4-lr
	6	–	–	■	■	–	■	■	■	■	–	■	ms6-lr
	9	–	–	■	■	–	■	■	■	■	–	■	ms9-lr
	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	–	–	–	–	–	–	–	–	–	–	–	–
Electrical pressure regulators MS-LRE	4	–	–	–	–	–	–	–	–	–	–	–	–
	6	–	–	■	■	–	■	–	–	–	–	■	ms6-lre
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–
Lubricators MS-LOE	4	■	■	–	–	–	–	–	–	–	–	■	ms4-loe
	6	■	■	–	–	–	–	–	–	–	–	■	ms6-loe
	9	–	■	–	–	–	–	–	–	–	–	■	ms9-loe
	12	–	■	–	–	–	–	–	–	–	–	■	ms12-loe
Electrical on-off valves MS-EM(1)	4	–	–	■	■	■	■	■	–	–	■	■	ms4-em1
	6	–	–	■	■	–	■	■	–	–	■	■	ms6-em1
	9	–	–	■	■	–	■	–	–	–	■	■	ms9-em
	12	–	–	■	■	–	■	–	–	–	■	■	ms12-em
Electrical on-off valves MS-EE	4	–	–	■	■	■	■	■	–	–	■	■	ms4-ee
	6	–	–	■	■	–	■	■	–	–	■	■	ms6-ee
	9	–	–	■	■	–	■	–	–	–	■	■	ms9-ee
	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	–	–	–	–	–	–	–	–	–	–	–	–

Service unit combinations MSB, MS series

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Product range overview – MS series service units

Type	Size	Pneumatic connection in housing	Connecting plate	Pressure regulation range [bar]				Supply voltage			
				0.1 ... 4	0.3 ... 7	0.1 ... 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											
Membrane air dryers MS-LDM1		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 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	G3/4, G1	G1/2, G3/4, G1, G1 1/4, G1 1/2	–	–	–	–	–	–	–
		12	–	G1, G1 1/4, G1 1/2, G2	–	–	–	–	–	–	–
Distributor blocks MS-FRM-FRZ		4	G1/4	–	–	–	–	–	–	–	–
		6	G1/2	–	–	–	–	–	–	–	–
		9	–	–	–	–	–	–	–	–	–
		12	–	–	–	–	–	–	–	–	–
Flow sensors SFAM		4	–	–	–	–	–	–	–	–	–
		6	G1/2	G1/2	–	–	–	–	–	–	–
		9	–	G1, G1 1/2	–	–	–	–	–	–	–
		12	–	–	–	–	–	–	–	–	–

Service unit combinations MSB, MS series

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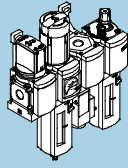
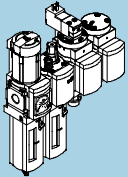
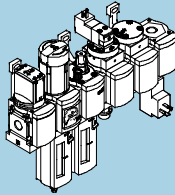
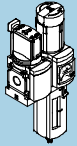
Product range overview – MS series service units

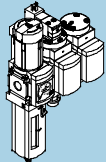
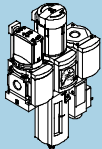
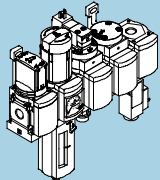
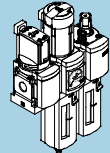
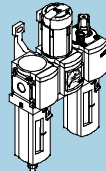
Type	Size	Bowl guard		Pressure indicator					Switch output		Options		→ Page/ Internet
		Plastic bowl with plastic bowl guard	Metal bowl	Cover plate (without pressure gauge)	Integrated MS pressure gauge	Adapter plate for EN pressure gauge G1/8	Adapter plate for EN pressure gauge G1/4	Pressure sensor	2x 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	
Individual devices													
Membrane air dryers MS-LDM1	4	–	■	–	–	–	–	–	–	–	–	■	ms4-ldm1
	6	–	■	–	–	–	–	–	–	–	–	■	ms6-ldm1
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–
Branching modules MS-FRM	4	–	–	■	■	■	■	■	–	–	–	■	ms4-frm
	6	–	–	■	■	–	■	■	–	–	–	■	ms6-frm
	9	–	–	■	■	–	■	■	–	–	–	■	ms9-frm
	12	–	–	■	–	–	–	–	–	–	–	–	ms12-frm
Distributor blocks MS-FRM-FRZ	4	–	–	–	–	–	–	–	–	–	–	■	ms4-frm
	6	–	–	–	–	–	–	–	–	–	–	■	ms6-frm
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–
Flow sensors SFAM	4	–	–	–	–	–	–	–	–	–	–	–	–
	6	–	–	–	–	–	–	–	■	■	–	■	sfam-62
	9	–	–	–	–	–	–	–	■	■	–	■	sfam-90
	12	–	–	–	–	–	–	–	–	–	–	–	–

Service unit combinations MSB4/MSB6, MS series

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Product range overview

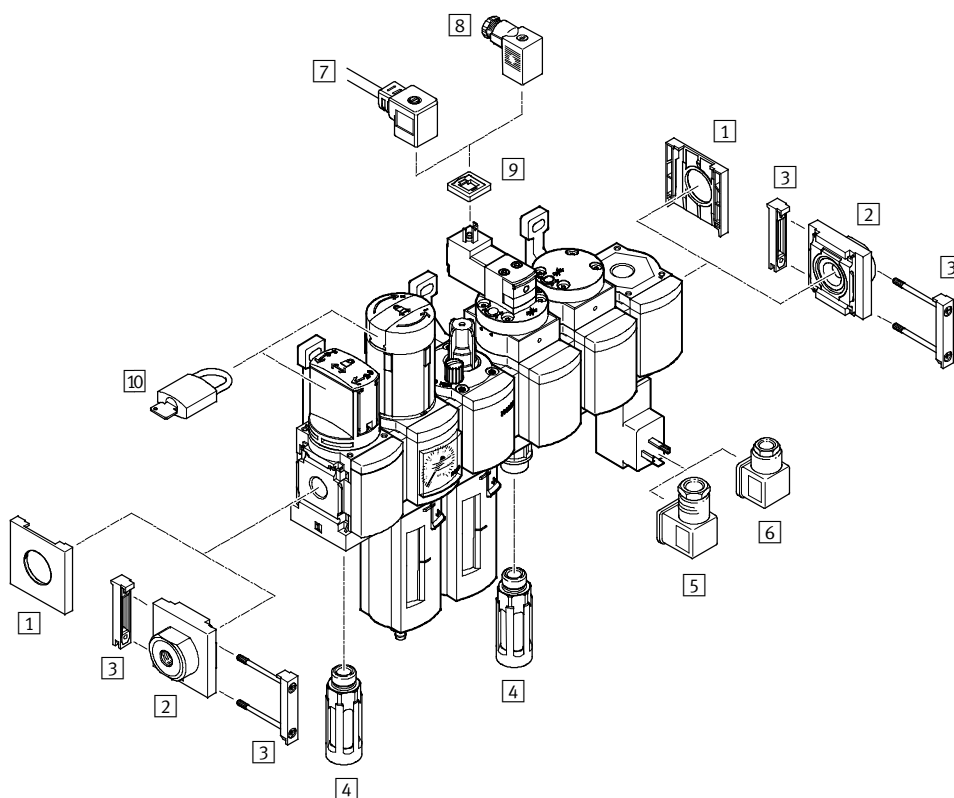
Combinations				
consisting of:				
On-off valve manually actuated EM1	■	–	■	■
Filter regulator with pressure gauge, lockable LFR	■	■	■	■
Pressure regulator with pressure gauge, lockable LR	–	–	–	–
Filter LF	–	–	–	–
Lubricator LOE	■	■	■	–
On-off valve solenoid actuated EE	–	■	■	–
Soft-start valve pneumatically actuated DL	–	■	■	–
Branching module with pressure switch FRM	■	–	■	–
Mounting bracket WP	■	■	■	■
Type codes → Page/Internet	10	10	10	10
Technical data → Page/Internet	11	14	18	22

Combinations					
consisting of:					
On-off valve manually actuated EM1	–	■	■	■	–
Filter regulator with pressure gauge, lockable LFR	■	■	■	■	–
Pressure regulator with pressure gauge, lockable LR	–	–	–	–	■
Filter LF	–	–	–	–	■
Lubricator LOE	–	–	–	■	■
On-off valve solenoid actuated EE	■	–	■	–	–
Soft-start valve pneumatically actuated DL	■	–	■	–	–
Branching module with pressure switch FRM	–	■	■	–	–
Mounting bracket WP	■	■	■	■	■
Type codes → Page/Internet	10	10	10	10	10
Technical data → Page/Internet	25	29	32	36	39

Service unit combinations MSB4/MSB6, MS series

Peripherals overview

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 Note

The choice of accessories depends on the selected service unit combination.

Range of accessories

→ Peripherals pages of the individual devices

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	Silencer U	43
5	Angled socket PEV-1/4-WD-LED	43
6	Plug socket MSSD-C-4P	43
7	Plug socket with cable KMEB	43
8	Plug socket MSSD-EB	43
9	Illuminating seal MEB-LD	43
10	Padlock LRVS-D	43
–	Mounting bracket MS4/6-WP/WPB/WPE/WPM	ms4-wp, ms6-wp

Service unit combinations MSB4/MSB6, MS series

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Type codes

		MSB	6	–	1/2	:	H7	N3	M2	–	WP
Series											
MSB	Service unit combination										
Size											
4	Grid dimension 40 mm										
6	Grid dimension 62 mm										
Pneumatic connection											
MSB4											
1/4	Thread G1/4										
MSB6											
1/2	Thread G1/2										
Service unit combination											
On-off valve		➔ Internet: ms4-em1, ms6-em1									
C3	MS...-EM1										
Filters		➔ Internet: ms4-lf, ms6-lf									
H1	MS...-LF-ERV										
H2	MS...-LF-ERM										
H3	MS...-LF-CRM										
H4	MS...-LF-CRV										
H7	MS...-LF-EUV										
H8	MS...-LF-EUM										
Filter regulator		➔ Internet: ms4-lfr, ms6-lfr									
J1	MS...-LFR-D7-ERM-AS										
J2	MS...-LFR-D7-ERV-AS										
J3	MS...-LFR-D7-CRM-AS										
J4	MS...-LFR-D7-CRV-AS										
Pressure regulator		➔ Internet: ms4-lr, ms6-lr									
N2	MS...-LR-D6-AS										
N3	MS...-LR-D7-AS										
Soft-start valve		➔ Internet: ms4-dl, ms6-dl									
A1	MS...-DL										
Lubricator		➔ Internet: ms4-loe, ms6-loe									
M1	MS...-LOE-R										
M2	MS...-LOE-U										
On-off valve		➔ Internet: ms4-ee, ms6-ee									
D1	MS...-EE-V24										
D7	MS...-EE-10V24										
Branching module		➔ Internet: ms4-frm, ms6-frm									
F3	MS...-FRM-Y										
Type of mounting											
WP	Mounting bracket										

Further variants can be ordered using the modular system → www.festo.com

- Connection size
- Connecting plates
- Service unit equipment
- Alternative flow direction

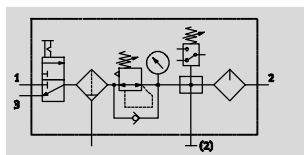
Service unit combinations MSB4/MSB6, MS series

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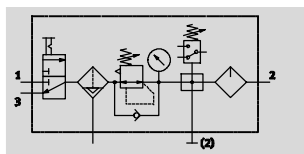
Technical data – Combination 1

Function

With condensate drain
manual rotary



With condensate drain
fully automatic



- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- Branching module MS...-FRM-Y with pressure switch without display
- Lubricator MS...-LOE-R
- Mounting bracket MS...-WP

- - Flow rate
900 ... 3,300 l/min
- - Temperature range
-10 ... +60 °C
- - Pressure regulation range
1 ... 12 bar



- For filtered and lubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- The unit is vented when switched off
- Electrical pressure monitoring with adjustable switching pressure
- Removal of filtered and unlubricated compressed air at the branching module connections

General technical data				
Size	MSB4		MSB6	
Pneumatic connection 1, 2, 3	G¼		G½	
Regulating function	With primary pressure compensation			
	With return flow function			
	With secondary venting			
	Output pressure constant			
Type of mounting	Via accessories			
Assembly position	Vertical ±5°			
Grade of filtration [µm]	5	40	5	40
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [6:4:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:-]	Compressed air in accordance with ISO 8573-1:2010 [6:4:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:-]
Bowl guard	Plastic bowl guard			
Condensate drain	Manual rotary			
	Fully automatic			
Actuator lock	Rotary knob with detent			
	Lockable with accessories			
Pressure regulation range [bar]	1 ... 12			
Pressure indicator	With pressure gauge			

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

Standard nominal flow rate q _N [l/min]				
Size		MSB4		MSB6
Grade of filtration	5 µm	900		3,200
	40 µm	950		3,300

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 1

Operating and environmental conditions				
Condensate drain	Manual rotary		Fully automatic	
Size	MSB4	MSB6	MSB4	MSB6
Operating pressure [bar]	1.5 ... 14	1.5 ... 18	2 ... 12	2 ... 12
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
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 ¹⁾	2			

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

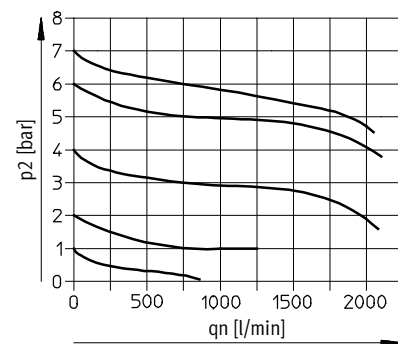
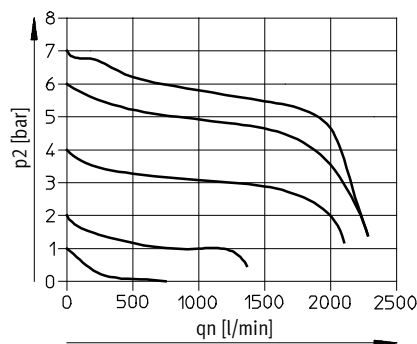
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [g]		
Size	MSB4	MSB6
Service unit combination	1,700	2,550
Mounting bracket	40	76

-  - Note
Materials → Technical data of the individual devices

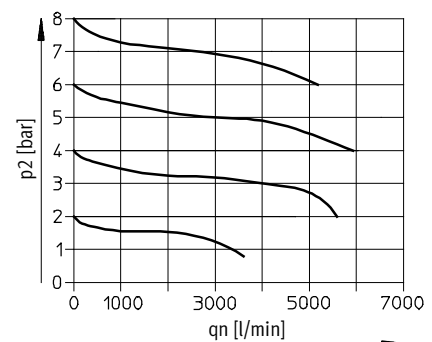
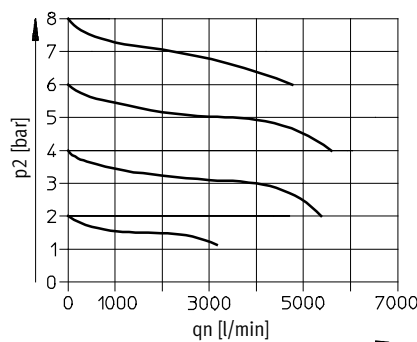
Standard flow rate q_n as a function of output pressure p_2		
Pressure regulation range 1 ... 12 bar	Grade of filtration 5 μm	Grade of filtration 40 μm
MSB4-1/4		

Primary pressure $p_1 = 10$ bar



MSB6-1/2

Primary pressure $p_1 = 10$ bar



Service unit combinations MSB4/MSB6, MS series

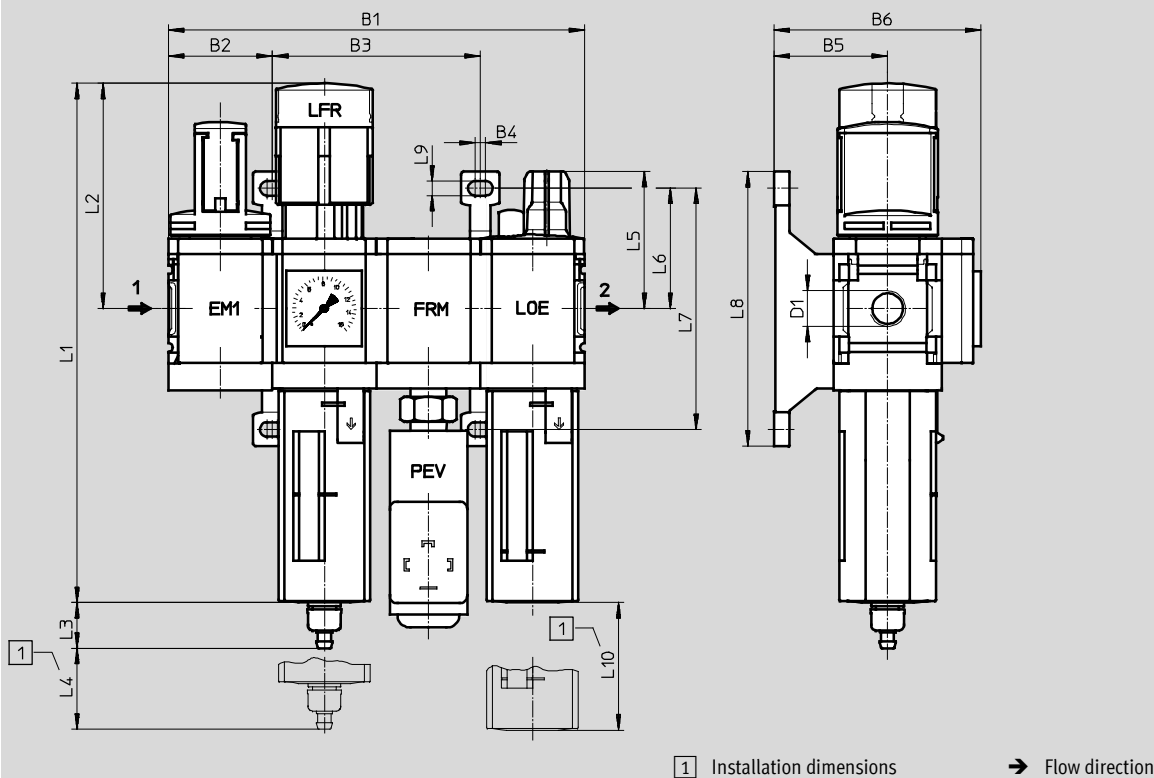
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Technical data – Combination 1

Dimensions

Download CAD data → www.festo.com

With pressure gauge, display unit [bar]



Type	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB4	160.8	40.2	80.4	4	44	80	G $\frac{1}{4}$	201	87
MSB6	248	62	124	4.5	54	100	G $\frac{1}{2}$	285	134.5

Type	L3 Condensate drain		L4	L5	L6	L7	L8	L9	L10
	manual rotary	fully auto- matic							
MSB4	17.7	20.4	25	53	46.5	93.2	106	5.6	80
MSB6	15.8	18.5	68	66	71	142	158	6.6	130

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

Ordering data

Pressure regulation range 1... 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	G¼	542307	MSB4-¼:C3J3F3M1-WP	542295	MSB4-¼:C3J1F3M1-WP
	fully automatic	G¼	542313	MSB4-¼:C3J4F3M1-WP	542301	MSB4-¼:C3J2F3M1-WP
MSB6	manual rotary	G½	542283	MSB6-½:C3J3F3M1-WP	542271	MSB6-½:C3J1F3M1-WP
	fully automatic	G½	542289	MSB6-½:C3J4F3M1-WP	542277	MSB6-½:C3J2F3M1-WP

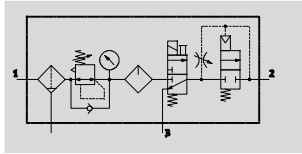
Service unit combinations MSB4/MSB6, MS series

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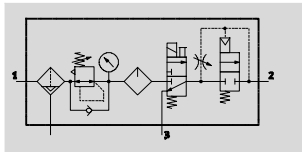
Technical data – Combination 2

Function

With condensate drain
manual rotary



With condensate drain
fully automatic



-  Flow rate
550 ... 2,000 l/min
-  Temperature range
-10 ... +60 °C
-  Pressure regulation
range
4 ... 12 bar



- Filter regulator MS...-LFR-D7
- Lubricator MS...-LOE-R
- On-off valve MS...-EE-10V24 or MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Mounting bracket MS...-WP

- For filtered and lubricated compressed air
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- When supply pressure is closed, quick venting ensures rapid pressure reduction

General technical data				
Size	MSB4		MSB6	
Pneumatic connection 1, 2, 3	G1/4		G1/2	
Regulating function	With primary pressure compensation			
	With return flow function			
	With secondary venting			
	Output pressure constant			
Type of mounting	Via accessories			
Assembly position	Vertical ±5°			
Grade of filtration [μm]	5	40	5	40
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [6:4:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:-]	Compressed air in accordance with ISO 8573-1:2010 [6:4:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:-]
Bowl guard	Plastic bowl guard			
Condensate drain	Manual rotary			
	Fully automatic			
Actuator lock	Rotary knob with detent			
	Lockable with accessories			
Pressure regulation range [bar]	4 ... 9 (with on-off valve MS...-EE-10V24)			
	4 ... 12 (with on-off valve MS...-EE-V24)			
Pressure indicator	With pressure gauge			
Coil characteristics	24 V DC		24 V DC: 2,5 W (pressure regulation range 4 ... 9 bar)	
			24 V DC: 1,5 W (pressure regulation range 4 ... 12 bar)	

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

Standard nominal flow rate qnN [l/min]		
Size	MSB4	MSB6
Grade of filtration	5 µm	550
	40 µm	600

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 2

Operating and environmental conditions								
	Pressure regulation range 4 ... 9 bar				Pressure regulation range 4 ... 12 bar			
Condensate drain	Manual rotary		Fully automatic		Manual rotary		Fully automatic	
Size	MSB4	MSB6	MSB4	MSB6	MSB4	MSB6	MSB4	MSB6
Operating pressure [bar]	4.5 ... 10	4.5 ... 10	4.5 ... 10	4.5 ... 10	4.5 ... 14	4.5 ... 18	4.5 ... 12	4.5 ... 12
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]							
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)							
Ambient temperature [°C]	-10 ... +50		+5 ... +50		-10 ... +60		+5 ... +60	
Temperature of medium [°C]	-10 ... +50		+5 ... +50		-10 ... +60		+5 ... +60	
Storage temperature [°C]	-10 ... +60		-10 ... +60		-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
Service unit combination	1,800	3,000
Mounting bracket	40	76

 Note

Materials → Technical data of the individual devices

Standard flow rate qn as a function of output pressure p2

Pressure regulation range

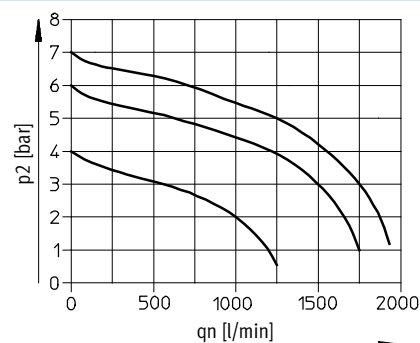
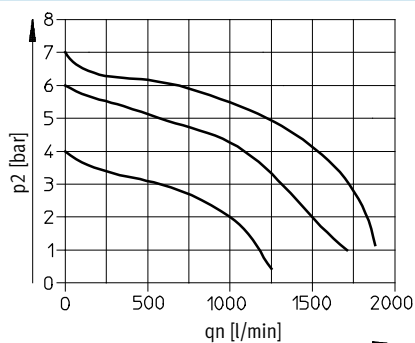
Grade of filtration 5 µm

Grade of filtration 40 µm

4 ... 9 bar / 4 ... 12 bar

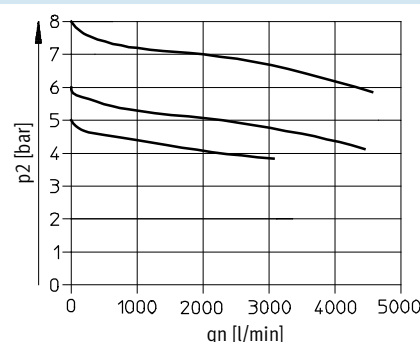
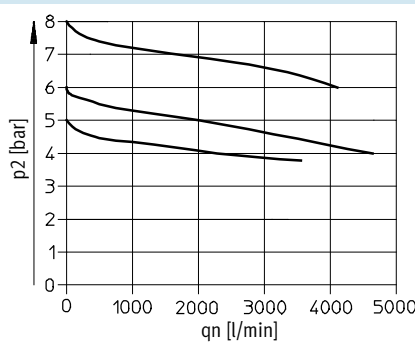
MSB4-1/4

Primary pressure p1 = 10 bar



MSB6-1/2

Primary pressure p1 = 10 bar



Service unit combinations MSB4/MSB6, MS series

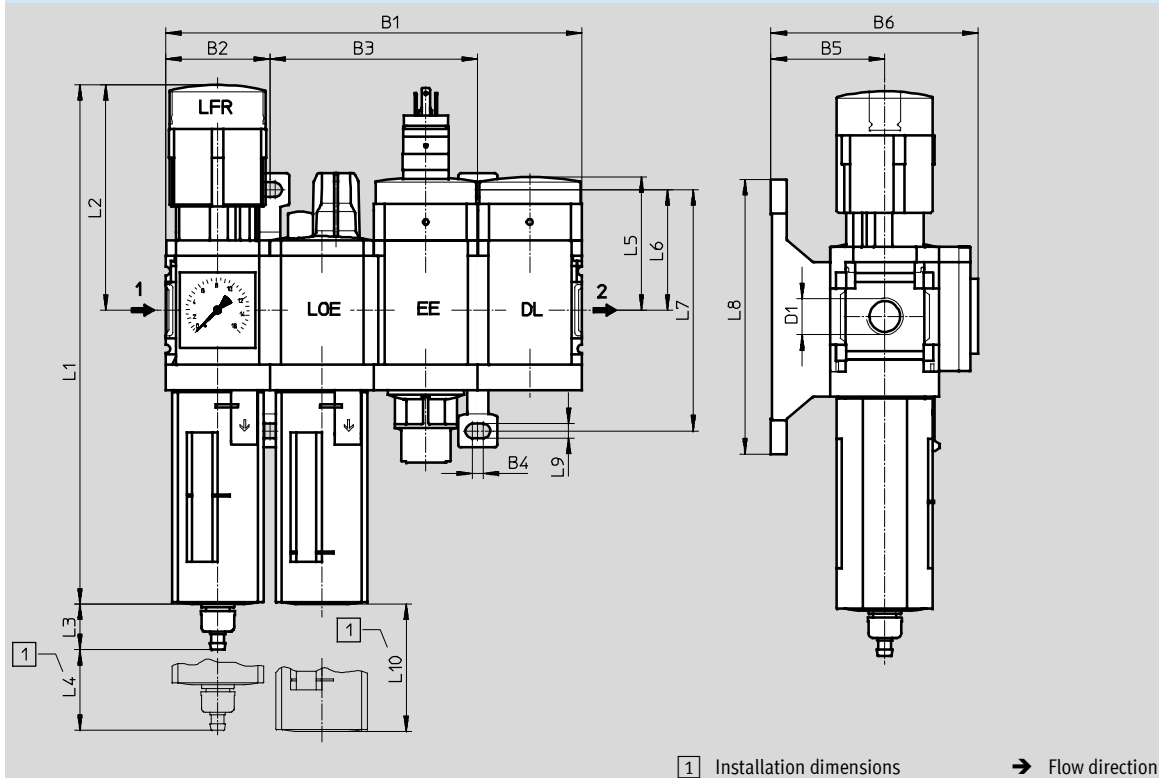
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Technical data – Combination 2

Dimensions

Download CAD data → www.festo.com

With pressure gauge, display unit [bar]



Type	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB4	160.8	40.2	80.4	4	44	80	G $\frac{1}{4}$	201	87
MSB6	248	62	124	4.5	54	100	G $\frac{1}{2}$	285	134.5

Type	L3 Condensate drain		L4	L5	L6	L7	L8	L9	L10
	manual rotary	fully auto- matic							
MSB4	17.7	20.4	25	51.7	46.5	93.2	106	5.6	80
MSB6	15.8	18.5	68	71	71	142	158	6.6	130

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

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 2

Ordering data							
Pressure regulation range 4 ... 9 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	G¼	542632	MSB4-¼:J3M1D7A1-WP		542628	MSB4-¼:J1M1D7A1-WP
	fully automatic	G¼	542634	MSB4-¼:J4M1D7A1-WP		542630	MSB4-¼:J2M1D7A1-WP
MSB6	manual rotary	G½	542648	MSB6-½:J3M1D7A1-WP		542644	MSB6-½:J1M1D7A1-WP
	fully automatic	G½	542650	MSB6-½:J4M1D7A1-WP		542646	MSB6-½:J2M1D7A1-WP

Ordering data						
Pressure regulation range 4 ... 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	G¼	531106	MSB4-¼:J3M1D1A1-WP		531102 MSB4-¼:J1M1D1A1-WP
	fully automatic	G¼	531108	MSB4-¼:J4M1D1A1-WP		531104 MSB4-¼:J2M1D1A1-WP
MSB6	manual rotary	G½	530227	MSB6-½:J3M1D1A1-WP		530223 MSB6-½:J1M1D1A1-WP
	fully automatic	G½	530229	MSB6-½:J4M1D1A1-WP		530225 MSB6-½:J2M1D1A1-WP

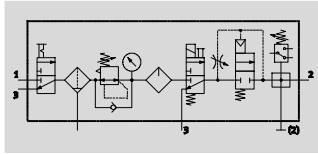
Service unit combinations MSB4/MSB6, MS series

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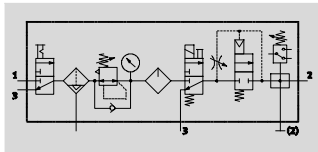
Technical data – Combination 3

Function

With condensate drain
manual rotary



With condensate drain
fully automatic



-  Flow rate
550 ... 2,300 l/min
-  Temperature range
-10 ... +60 °C
-  Pressure regulation
range
4 ... 12 bar



- On-off valve MS...-EM1
manually actuated
- Filter regulator MS...-LFR-D7
- Lubricator MS...-LOE-R
- On-off valve MS...-EE-10V24 or
MS...-EE-V24
solenoid actuated
- Soft-start valve MS...-DL
pneumatically actuated
- Branching module MS...-FRM-Y
with pressure switch without dis-
play
- Mounting bracket MS...-WP

- For filtered and lubricated com-
pressed air
- Supply pressure can be opened and
closed
- Output pressure is infinitely adjust-
able within the pressure regulation
range
- Gradual pressure build-up prevents
sudden, unpredictable movements
- To shut-off and vent the following
device or the system
- Electrical pressure monitoring with
adjustable switching pressure

General technical data				
Size	MSB4		MSB6	
Pneumatic connection 1, 2, 3	G1/4		G1/2	
Regulating function	With primary pressure compensation			
	With return flow function			
	With secondary venting			
	Output pressure constant			
Type of mounting	Via accessories			
Assembly position	Vertical ±5°			
Grade of filtration [µm]	5	40	5	40
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [6:4:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:-]	Compressed air in accordance with ISO 8573-1:2010 [6:4:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:-]
Bowl guard	Plastic bowl guard			
Condensate drain	Manual rotary			
	Fully automatic			
Actuator lock	Rotary knob with detent			
	Lockable with accessories			
Pressure regulation range [bar]	4 ... 9 (with on-off valve MS...-EE-10V24)			
	4 ... 12 (with on-off valve MS...-EE-V24)			
Pressure indicator	With pressure gauge			
Coil characteristics	24 V DC		24 V DC: 2,5 W (pressure regulation range 4 ... 9 bar)	
			24 V DC: 1,5 W (pressure regulation range 4 ... 12 bar)	

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

Standard nominal flow rate q _N [l/min]			
Size	MSB4		MSB6
Grade of filtration	5 µm	550	2,100
	40 µm	600	2,300

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 3

Operating and environmental conditions								
	Pressure regulation range 4 ... 9 bar				Pressure regulation range 4 ... 12 bar			
Condensate drain	Manual rotary		Fully automatic		Manual rotary		Fully automatic	
Size	MSB4	MSB6	MSB4	MSB6	MSB4	MSB6	MSB4	MSB6
Operating pressure [bar]	4.5 ... 10	4.5 ... 10	4.5 ... 10	4.5 ... 10	4.5 ... 14	4.5 ... 18	4.5 ... 12	4.5 ... 12
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]							
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)							
Ambient temperature [°C]	-10 ... +50		+5 ... +50		-10 ... +60		+5 ... +60	
Temperature of medium [°C]	-10 ... +50		+5 ... +50		-10 ... +60		+5 ... +60	
Storage temperature [°C]	-10 ... +60		-10 ... +60		-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
Service unit combination	2,200	4,000
Mounting bracket	40	76

 Note

Materials → Technical data of the individual devices

Standard flow rate qn as a function of output pressure p2

Pressure regulation range

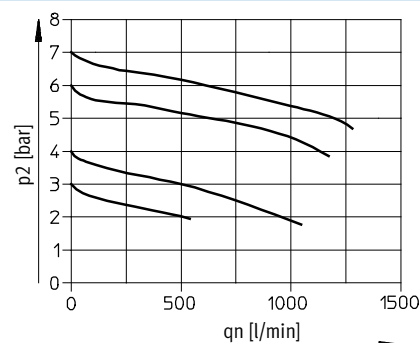
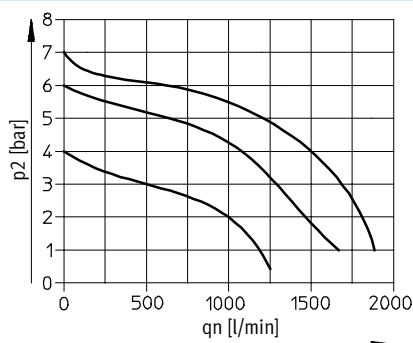
Grade of filtration 5 µm

Grade of filtration 40 µm

4 ... 9 bar / 4 ... 12 bar

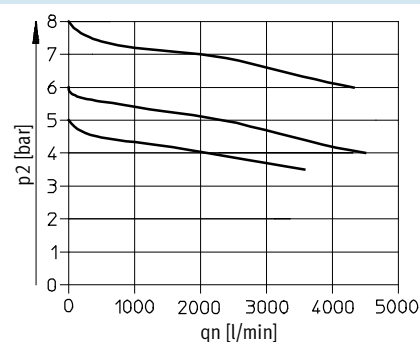
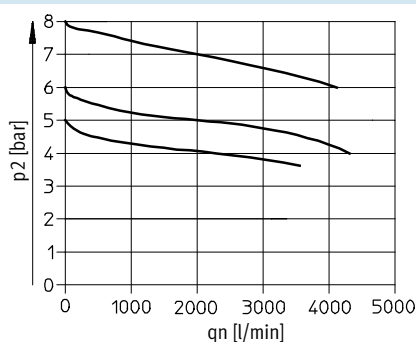
MSB4-1/4

Primary pressure p1 = 10 bar



MSB6-1/2

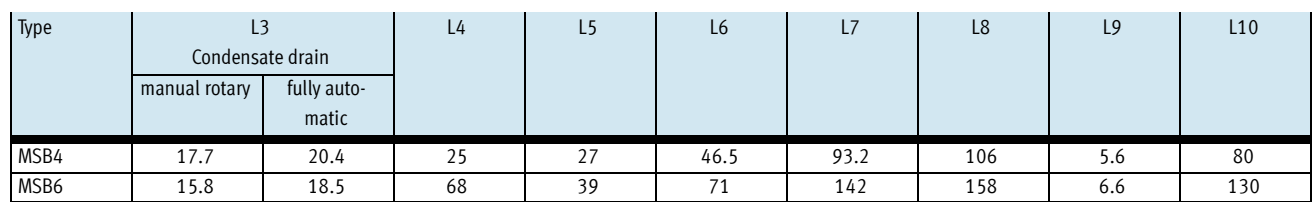
Primary pressure p1 = 10 bar



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Dimensions

With pressure gauge, display unit [bar]



20

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 3

Ordering data						
Pressure regulation range 4 ... 9 bar						
Size	Condensate drain	Connection	Grade of filtration 5 µm			Grade of filtration 40 µm
			Part No.	Type		Part No.
Plastic bowl guard						
MSB4	manual rotary	G¼	542624	MSB4-¼:C3J3M1D7A1F3-WP		542619 MSB4-¼:C3J1M1D7A1F3-WP
	fully automatic	G¼	542626	MSB4-¼:C3J4M1D7A1F3-WP		542622 MSB4-¼:C3J2M1D7A1F3-WP
MSB6	manual rotary	G½	542640	MSB6-½:C3J3M1D7A1F3-WP		542636 MSB6-½:C3J1M1D7A1F3-WP
	fully automatic	G½	542642	MSB6-½:C3J4M1D7A1F3-WP		542638 MSB6-½:C3J2M1D7A1F3-WP

Ordering data						
Pressure regulation range 4 ... 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	G¼	542309	MSB4-¼:C3J3M1D1A1F3-WP	542297	MSB4-¼:C3J1M1D1A1F3-WP
	fully automatic	G¼	542315	MSB4-¼:C3J4M1D1A1F3-WP	542303	MSB4-¼:C3J2M1D1A1F3-WP
MSB6	manual rotary	G½	542285	MSB6-½:C3J3M1D1A1F3-WP	542273	MSB6-½:C3J1M1D1A1F3-WP
	fully automatic	G½	542291	MSB6-½:C3J4M1D1A1F3-WP	542279	MSB6-½:C3J2M1D1A1F3-WP

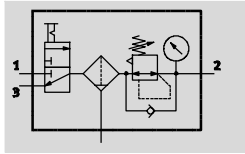
Service unit combinations MSB4/MSB6, MS series

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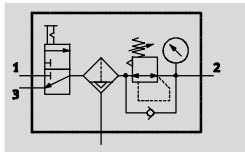
Technical data – Combination 4

Function

With condensate drain
manual rotary



With condensate drain
fully automatic



-  - Flow rate
950 ... 5,100 l/min
-  - Temperature range
-10 ... +60 °C
-  - Pressure regulation
range
0.5 ... 12 bar



- On-off valve MS...-EM1
manually actuated
- Filter regulator MS...-LFR-D7
- Mounting bracket MS...-WP

- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range

General technical data				
Size	MSB4		MSB6	
Pneumatic connection 1, 2, 3	G1/4		G1/2	
Regulating function	With primary pressure compensation			
	With return flow function			
	With secondary venting			
	Output pressure constant			
Type of mounting	Via accessories			
Assembly position	Vertical ±5°			
Grade of filtration [µm]	5	40	5	40
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [6:4:4]	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]	Compressed air in accordance with ISO 8573-1:2010 [6:4:4]	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Bowl guard	Plastic bowl guard			
Condensate drain	Manual rotary			
	Fully automatic			
Actuator lock	Rotary knob with detent			
	Lockable with accessories			
Pressure regulation range [bar]	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 q _N [l/min]			
Size	MSB4		MSB6
Grade of filtration	5 µm	950	4,800
	40 µm	1,000	5,100

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 4

Operating and environmental conditions				
Condensate drain	Manual rotary		Fully automatic	
Size	MSB4	MSB6	MSB4	MSB6
Operating pressure [bar]	0.8 ... 14	0.8 ... 18	2 ... 12	2 ... 12
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
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 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
Service unit combination	1,300	1,100
Mounting bracket	40	76

-  - Note

Materials → Technical data of the individual devices

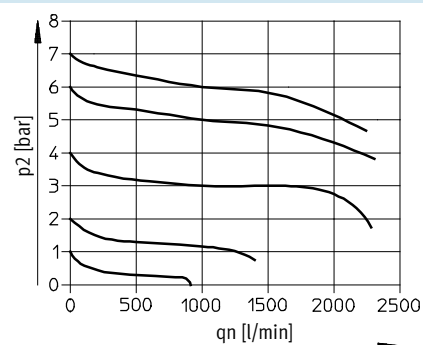
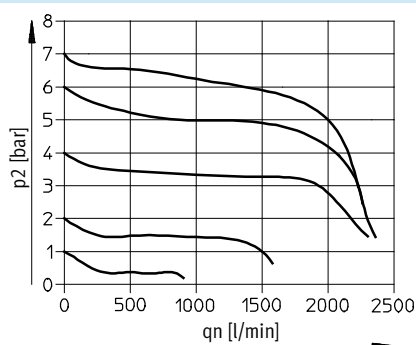
Standard flow rate qn as a function of output pressure p2

Pressure regulation range 0.5 ... 12 bar

Grade of filtration 40 µm

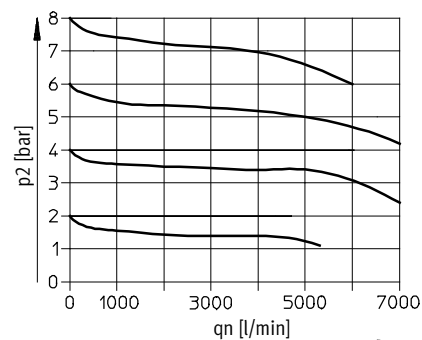
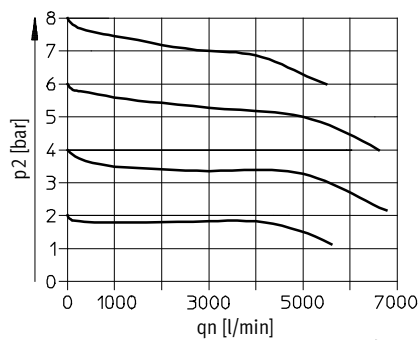
MSB4-1/4

Primary pressure p1 = 10 bar



MSB6-1/2

Primary pressure p1 = 10 bar



Service unit combinations MSB4/MSB6, MS series

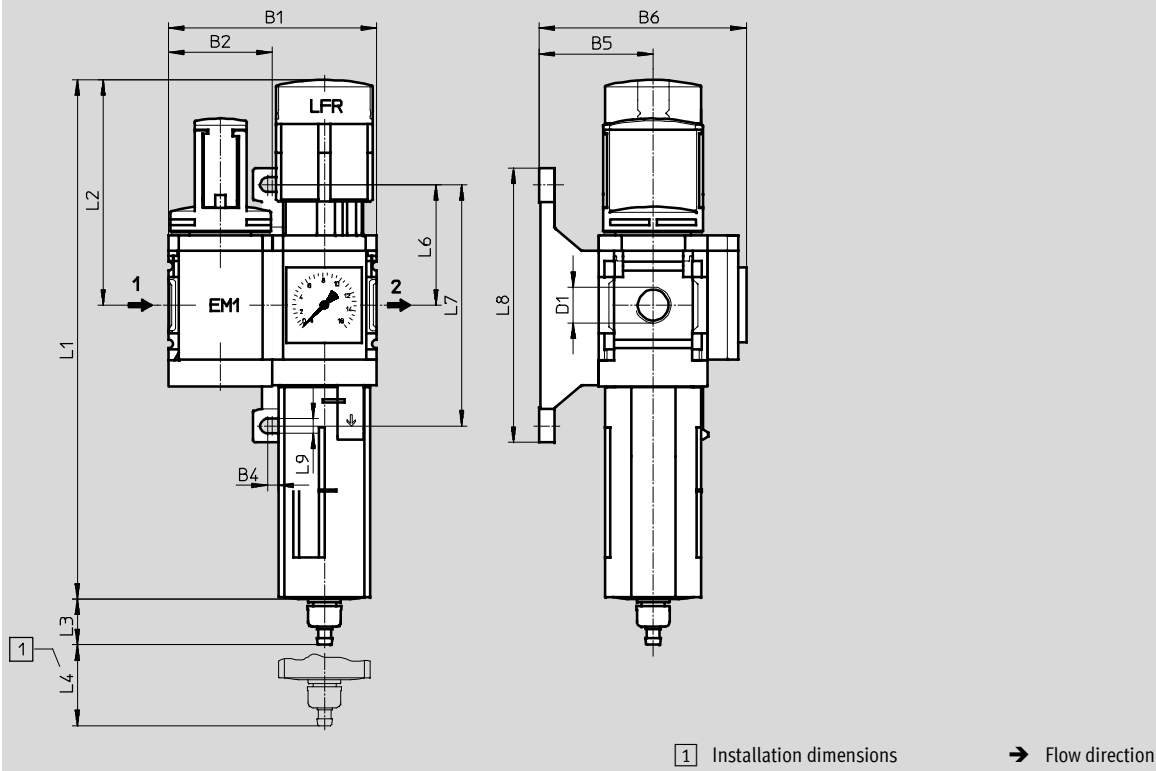
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Technical data – Combination 4

Dimensions

Download CAD data → www.festo.com

With pressure gauge, display unit [bar]



Type	B1	B2	B4	B5	B6	D1	L1	L2
MSB4	80.4	40.2	4	44	80	G $\frac{1}{4}$	201	87
MSB6	124	62	4.5	54	100	G $\frac{1}{2}$	285	134.5

Type	L3 Condensate drain		L4	L6	L7	L8	L9
	manual rotary	fully automatic					
MSB4	17.7	20.4	25	46.5	93.2	106	5.6
MSB6	15.8	18.5	68	71	142	158	6.6

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

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	G¼	542304	MSB4-¼:C3J3-WP		542292	MSB4-¼:C3J1-WP
	fully automatic	G¼	542310	MSB4-¼:C3J4-WP		542298	MSB4-¼:C3J2-WP
MSB6	manual rotary	G½	542280	MSB6-½:C3J3-WP		542268	MSB6-½:C3J1-WP
	fully automatic	G½	542286	MSB6-½:C3J4-WP		542274	MSB6-½:C3J2-WP

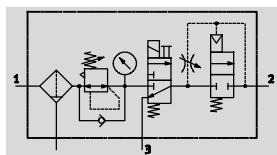
Service unit combinations MSB4/MSB6, MS series

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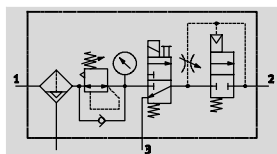
Technical data – Combination 5

Function

With condensate drain
manual rotary



With condensate drain
fully automatic



- Filter regulator MS...-LFR-D7
- On-off valve MS...-EE-10V24 or MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Mounting bracket MS...-WP

- Flow rate
700 ... 3,100 l/min
- Temperature range
-10 ... +60 °C
- Pressure regulation range
4 ... 12 bar



- For filtered and unlubricated compressed air
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- When supply pressure is closed, quick venting ensures rapid pressure reduction

General technical data				
Size	MSB4		MSB6	
Pneumatic connection 1, 2, 3	G1/4		G1/2	
Regulating function	With primary pressure compensation			
	With return flow function			
	With secondary venting			
	Output pressure constant			
Type of mounting	Via accessories			
Assembly position	Vertical ±5°			
Grade of filtration [µm]	5	40	5	40
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [6:4:4]	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]	Compressed air in accordance with ISO 8573-1:2010 [6:4:4]	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Bowl guard	Plastic bowl guard			
Condensate drain	Manual rotary			
	Fully automatic			
Actuator lock	Rotary knob with detent			
	Lockable with accessories			
Pressure regulation range [bar]	4 ... 9 (with on-off valve MS...-EE-10V24)			
	4 ... 12 (with on-off valve MS...-EE-V24)			
Pressure indicator	With pressure gauge			
Coil characteristics	24 V DC		24 V DC: 2,5 W (pressure regulation range 4 ... 9 bar)	
			24 V DC: 1,5 W (pressure regulation range 4 ... 12 bar)	

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

Standard nominal flow rate qnN [l/min]		
Size	MSB4	MSB6
Grade of filtration	5 µm	700
	40 µm	750
		3,000
		3,100

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 5

Operating and environmental conditions								
	Pressure regulation range 4 ... 9 bar				Pressure regulation range 4 ... 12 bar			
Condensate drain	Manual rotary		Fully automatic		Manual rotary		Fully automatic	
Size	MSB4	MSB6	MSB4	MSB6	MSB4	MSB6	MSB4	MSB6
Operating pressure [bar]	4.5 ... 10	4.5 ... 10	4.5 ... 10	4.5 ... 10	4.5 ... 14	4.5 ... 18	4.5 ... 12	4.5 ... 12
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]							
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)							
Ambient temperature [°C]	-10 ... +50		+5 ... +50		-10 ... +60		+5 ... +60	
Temperature of medium [°C]	-10 ... +50		+5 ... +50		-10 ... +60		+5 ... +60	
Storage temperature [°C]	-10 ... +60		-10 ... +60		-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.

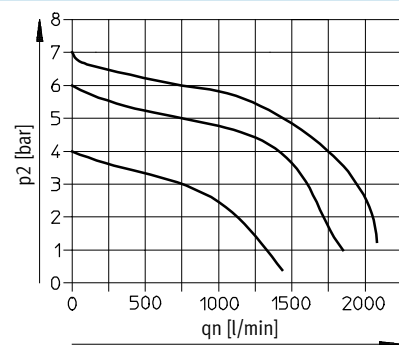
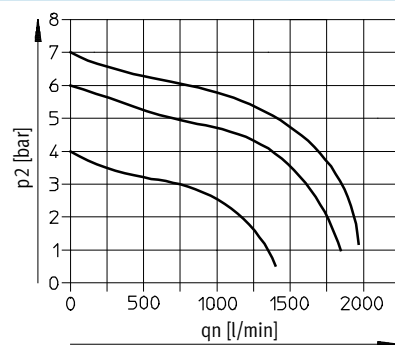
Weights [g]		
Size	MSB4	MSB6
Service unit combination	1,600	2,400
Mounting bracket	40	76

-  - Note

Materials → Technical data of the individual devices

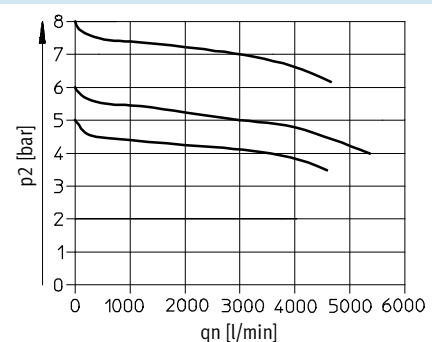
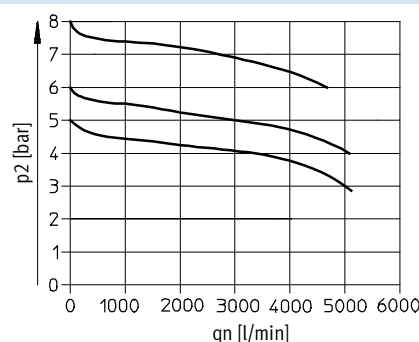
Standard flow rate q_n as a function of output pressure p_2		
Pressure regulation range	Grade of filtration 5 μm	Grade of filtration 40 μm
4 ... 9 bar / 4 ... 12 bar		
MSB4-1/4		

Primary pressure $p_1 = 10$ bar



MSB6-1/2

Primary pressure $p_1 = 10$ bar



Service unit combinations MSB4/MSB6, MS series

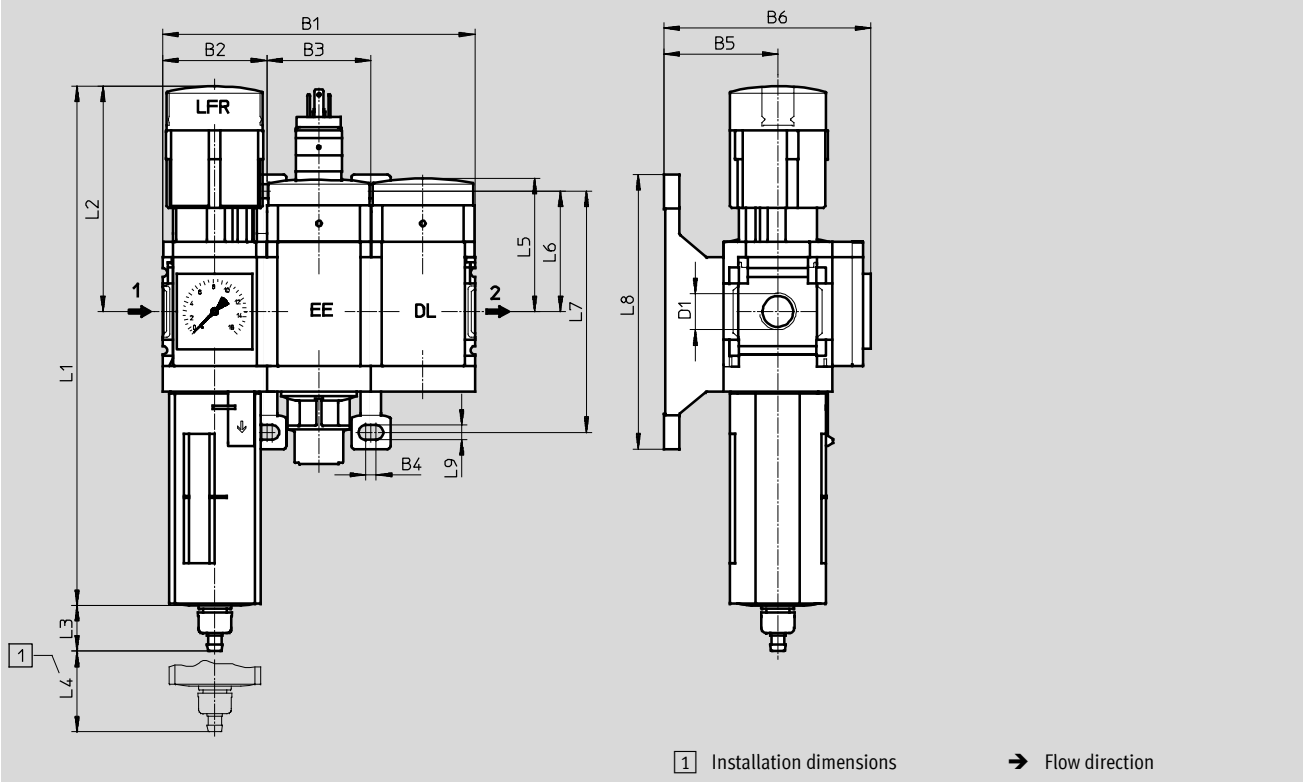
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Technical data – Combination 5

Dimensions

Download CAD data → www.festo.com

With pressure gauge, display unit [bar]



Type	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB4	120.6	40.2	40.2	4	44	80	G $\frac{1}{4}$	201	87
MSB6	186	62	62	4.5	54	100	G $\frac{1}{2}$	285	134.5

Type	L3 Condensate drain		L4	L5	L6	L7	L8	L9
	manual rotary	fully automatic						
MSB4	17.7	20.4	25	51.7	46.5	93.2	106	5.6
MSB6	15.8	18.5	68	71	71	142	158	6.6

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

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 5

Ordering data						
Pressure regulation range 4 ... 9 bar						
Size	Condensate drain	Connection	Grade of filtration 5 µm			Grade of filtration 40 µm
			Part No.	Type		Part No.
Plastic bowl guard						
MSB4	manual rotary	G¼	542631	MSB4-¼:J3D7A1-WP		542627 MSB4-¼:J1D7A1-WP
	fully automatic	G¼	542633	MSB4-¼:J4D7A1-WP		542629 MSB4-¼:J2D7A1-WP
MSB6	manual rotary	G½	542647	MSB6-½:J3D7A1-WP		542643 MSB6-½:J1D7A1-WP
	fully automatic	G½	542649	MSB6-½:J4D7A1-WP		542645 MSB6-½:J2D7A1-WP

Ordering data						
Pressure regulation range 4 ... 12 bar						
Size	Condensate drain	Connection	Grade of filtration 5 µm			Grade of filtration 40 µm
			Part No.	Type		Part No.
Plastic bowl guard						
MSB4	manual rotary	G¼	531105	MSB4-¼:J3D1A1-WP		531101 MSB4-¼:J1D1A1-WP
	fully automatic	G¼	531107	MSB4-¼:J4D1A1-WP		531103 MSB4-¼:J2D1A1-WP
MSB6	manual rotary	G½	530226	MSB6-½:J3D1A1-WP		530222 MSB6-½:J1D1A1-WP
	fully automatic	G½	530228	MSB6-½:J4D1A1-WP		530224 MSB6-½:J2D1A1-WP

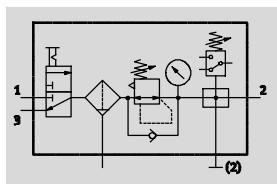
Service unit combinations MSB4/MSB6, MS series

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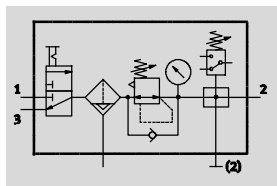
Technical data – Combination 6

Function

With condensate drain
manual rotary



With condensate drain
fully automatic



-  Flow rate
1,250 ... 4,500 l/min
-  Temperature range
-10 ... +60 °C
-  Pressure regulation range
0.5 ... 12 bar



- On-off valve MS...-EM1
manually actuated
- Filter regulator MS...-LFR-D7
- Branching module MS...-FRM-Y
with pressure switch without display
- Mounting bracket MS...-WP

- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- Electrical pressure monitoring with adjustable switching pressure

General technical data				
Size	MSB4		MSB6	
Pneumatic connection 1, 2, 3	G¼		G½	
Regulating function	With primary pressure compensation			
	With return flow function			
	With secondary venting			
	Output pressure constant			
Type of mounting	Via accessories			
Assembly position	Vertical ±5°			
Grade of filtration [µm]	5	40	5	40
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [6:4:4]	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]	Compressed air in accordance with ISO 8573-1:2010 [6:4:4]	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Bowl guard	Plastic bowl guard			
Condensate drain	Manual rotary			
	Fully automatic			
Actuator lock	Rotary knob with detent			
	Lockable with accessories			
Pressure regulation range [bar]	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 q _N [l/min]				
Size	MSB4		MSB6	
Grade of filtration	5 µm	1,250	4,400	
	40 µm	1,300	4,500	

Service unit combinations MSB4/MSB6, MS series

FESTO

Technical data – Combination 6

Operating and environmental conditions				
Condensate drain	Manual rotary		Fully automatic	
Size	MSB4	MSB6	MSB4	MSB6
Operating pressure [bar]	0.8 ... 14	0.8 ... 18	2 ... 12	2 ... 12
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
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 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
Service unit combination	1,500	2,000
Mounting bracket	40	76

-  - Note
Materials → Technical data of the individual devices

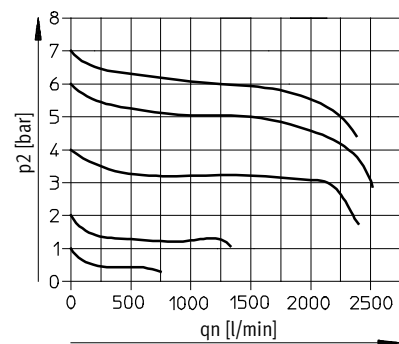
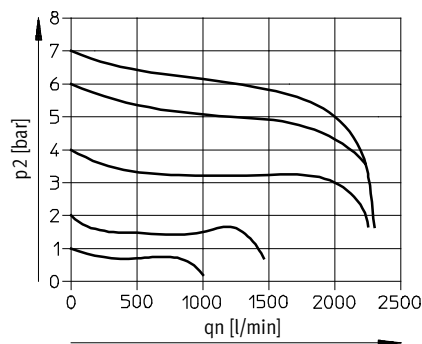
Standard flow rate qn as a function of output pressure p2

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

Grade of filtration 40 µm

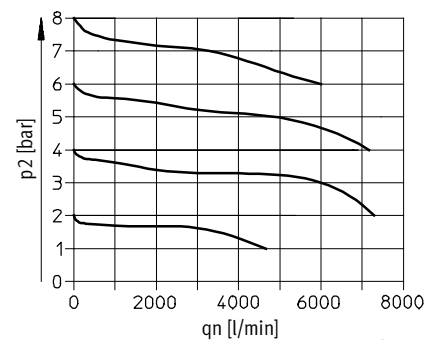
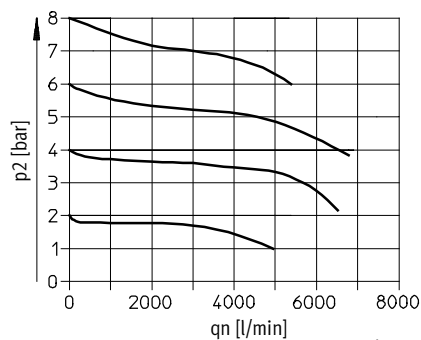
MSB4-1/4

Primary pressure p1 = 10 bar



MSB6-1/2

Primary pressure p1 = 10 bar



Service unit combinations MSB4/MSB6, MS series

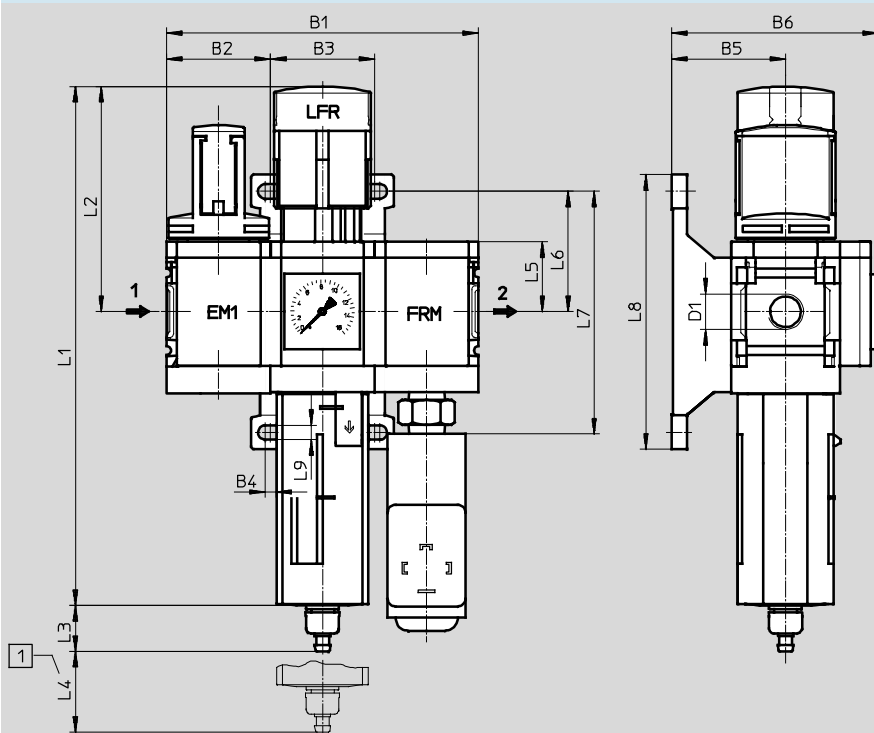
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Technical data – Combination 6

Dimensions

Download CAD data → www.festo.com

With pressure gauge, display unit [bar]



1 Installation dimensions

→ Flow direction

Type	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB4	120.6	40.2	40.2	4	44	80	G $\frac{1}{4}$	201	87
MSB6	186	62	62	4.5	54	100	G $\frac{1}{2}$	285	134.5

Type	L3 Condensate drain		L4	L5	L6	L7	L8	L9
	manual rotary	fully automatic						
MSB4	17.7	20.4	25	27	46.5	93.2	106	5.6
MSB6	15.8	18.5	68	39	71	142	158	6.6

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

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	G¼	542306	MSB4-¼:C3J3F3-WP	542294	MSB4-¼:C3J1F3-WP
	fully automatic	G¼	542312	MSB4-¼:C3J4F3-WP	542300	MSB4-¼:C3J2F3-WP
MSB6	manual rotary	G½	542282	MSB6-½:C3J3F3-WP	542270	MSB6-½:C3J1F3-WP
	fully automatic	G½	542288	MSB6-½:C3J4F3-WP	542276	MSB6-½:C3J2F3-WP

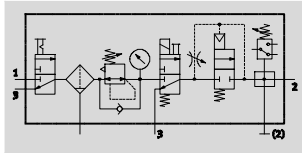
Service unit combinations MSB4/MSB6, MS series

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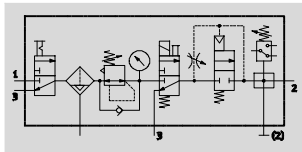
Technical data – Combination 7

Function

With condensate drain
manual rotary



With condensate drain
fully automatic



-  Flow rate
700 ... 3,100 l/min
-  Temperature range
-10 ... +60 °C
-  Pressure regulation
range
4 ... 12 bar



- On-off valve MS...-EM1
manually actuated
- Filter regulator MS...-LFR-D7
- On-off valve MS...-EE-10V24 or
MS...-EE-V24
solenoid actuated
- Soft-start valve MS...-DL
pneumatically actuated
- Branching module MS...-FRM-Y
with pressure switch without dis-
play
- Mounting bracket MS...-WP

- For filtered and unlubricated com-
pressed air
- Supply pressure can be opened and
closed
- Output pressure is infinitely adjust-
able within the pressure regulation
range
- Gradual pressure build-up prevents
sudden, unpredictable movements
- To shut-off and vent the following
device or the system
- Electrical pressure monitoring with
adjustable switching pressure

General technical data				
Size	MSB4		MSB6	
Pneumatic connection 1, 2, 3	G1/4		G1/2	
Regulating function	With primary pressure compensation			
	With return flow function			
	With secondary venting			
	Output pressure constant			
Type of mounting	Via accessories			
Assembly position	Vertical ±5°			
Grade of filtration [µm]	5	40	5	40
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [6:4:4]	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]	Compressed air in accordance with ISO 8573-1:2010 [6:4:4]	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Bowl guard	Plastic bowl guard			
Condensate drain	Manual rotary			
	Fully automatic			
Actuator lock	Rotary knob with detent			
	Lockable with accessories			
Pressure regulation range [bar]	4 ... 9 (with on-off valve MS...-EE-10V24)			
	4 ... 12 (with on-off valve MS...-EE-V24)			
Pressure indicator	With pressure gauge			
Coil characteristics	24 V DC		24 V DC: 2,5 W (pressure regulation range 4 ... 9 bar)	
			24 V DC: 1,5 W (pressure regulation range 4 ... 12 bar)	

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

Standard nominal flow rate q _N [l/min]			
Size	MSB4		MSB6
Grade of filtration	5 µm	700	3,000
	40 µm	750	3,100

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 7

Operating and environmental conditions								
	Pressure regulation range 4 ... 9 bar				Pressure regulation range 4 ... 12 bar			
Condensate drain	Manual rotary		Fully automatic		Manual rotary		Fully automatic	
Size	MSB4	MSB6	MSB4	MSB6	MSB4	MSB6	MSB4	MSB6
Operating pressure [bar]	4.5 ... 10	4.5 ... 10	4.5 ... 10	4.5 ... 10	4.5 ... 14	4.5 ... 18	4.5 ... 12	4.5 ... 12
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]							
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)							
Ambient temperature [°C]	-10 ... +50		+5 ... +50		-10 ... +60		+5 ... +60	
Temperature of medium [°C]	-10 ... +50		+5 ... +50		-10 ... +60		+5 ... +60	
Storage temperature [°C]	-10 ... +60		-10 ... +60		-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
Service unit combination	2,200	3,500
Mounting bracket	40	76

 Note
Materials → Technical data of the individual devices

Standard flow rate qn as a function of output pressure p2

Pressure regulation range

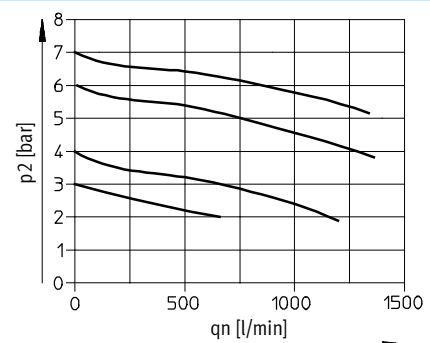
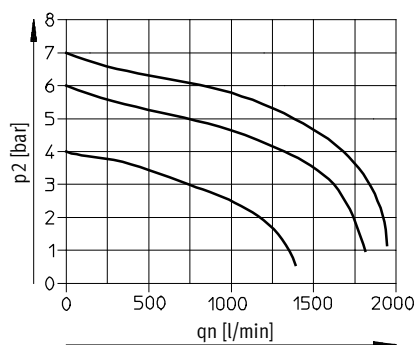
Grade of filtration 5 µm

Grade of filtration 40 µm

4 ... 9 bar / 4 ... 12 bar

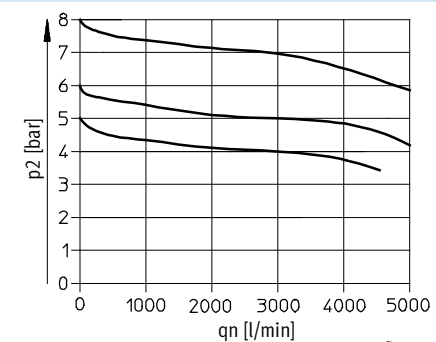
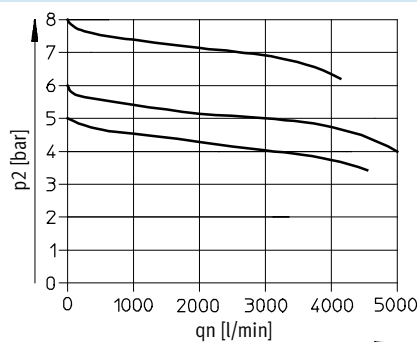
MSB4-1/4

Primary pressure p1 = 10 bar



MSB6-1/2

Primary pressure p1 = 10 bar



Service unit combinations MSB4/MSB6, MS series

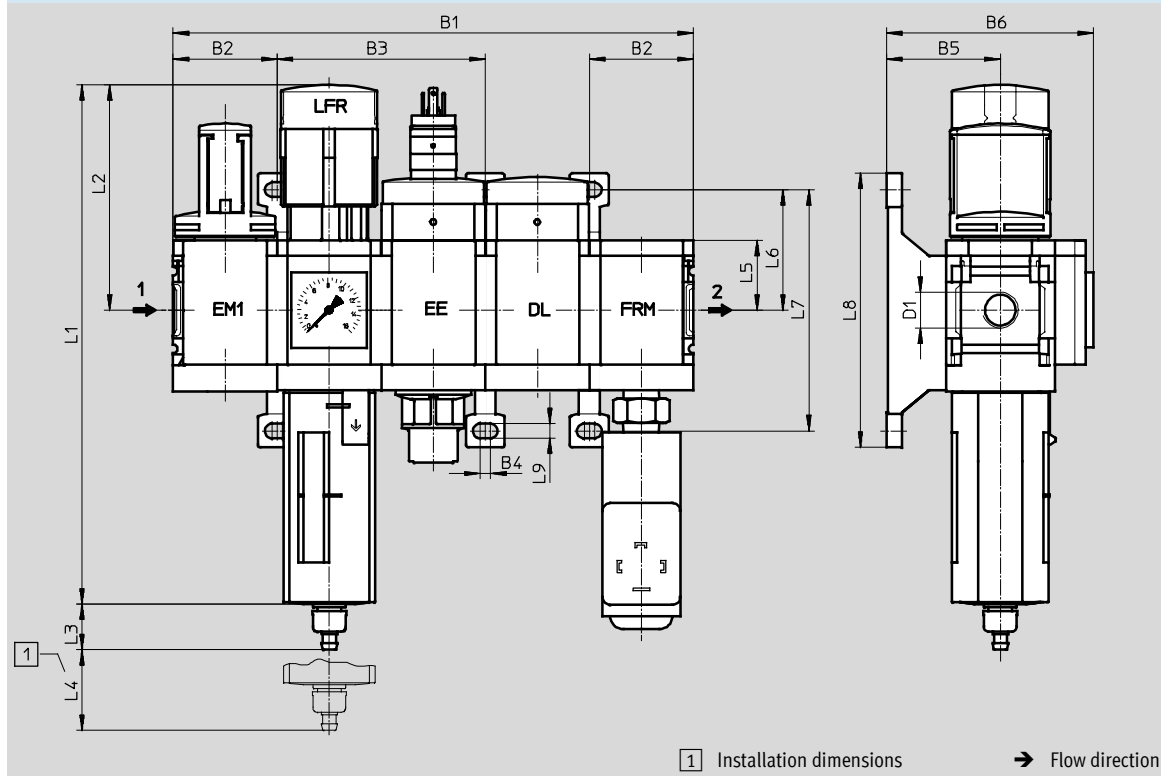
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Technical data – Combination 7

Dimensions

Download CAD data → www.festo.com

With pressure gauge, display unit [bar]



Type	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB4	201	40.2	80.4	4	44	80	G $\frac{1}{4}$	201	87
MSB6	310	62	124	4.5	54	100	G $\frac{1}{2}$	285	134.5

Type	L3 Condensate drain		L4	L5	L6	L7	L8	L9
	manual rotary	fully automatic						
MSB4	17.7	20.4	25	27	46.5	93.2	106	5.6
MSB6	15.8	18.5	68	39	71	142	158	6.6

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

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 7

Ordering data						
Pressure regulation range 4 ... 9 bar						
Size	Condensate drain	Connection	Grade of filtration 5 µm			Grade of filtration 40 µm
			Part No.	Type		Part No.
Plastic bowl guard						
MSB4	manual rotary	G¼	542623	MSB4-¼:C3J3D7A1F3-WP		542618 MSB4-¼:C3J1D7A1F3-WP
	fully automatic	G¼	542625	MSB4-¼:C3J4D7A1F3-WP		542621 MSB4-¼:C3J2D7A1F3-WP
MSB6	manual rotary	G½	542639	MSB6-½:C3J3D7A1F3-WP		542635 MSB6-½:C3J1D7A1F3-WP
	fully automatic	G½	542641	MSB6-½:C3J4D7A1F3-WP		542637 MSB6-½:C3J2D7A1F3-WP

Ordering data						
Pressure regulation range 4 ... 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	G¼	542305	MSB4-¼:C3J3D1A1F3-WP	542293	MSB4-¼:C3J1D1A1F3-WP
	fully automatic	G¼	542311	MSB4-¼:C3J4D1A1F3-WP	542299	MSB4-¼:C3J2D1A1F3-WP
MSB6	manual rotary	G½	542281	MSB6-½:C3J3D1A1F3-WP	542269	MSB6-½:C3J1D1A1F3-WP
	fully automatic	G½	542287	MSB6-½:C3J4D1A1F3-WP	542275	MSB6-½:C3J2D1A1F3-WP

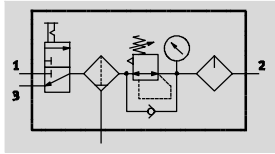
Service unit combinations MSB4/MSB6, MS series

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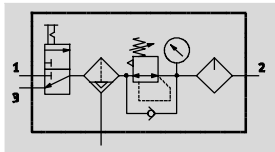
Technical data – Combination 8

Function

With condensate drain
manual rotary



With condensate drain
fully automatic



-  Flow rate
700 ... 3,100 l/min
-  Temperature range
-10 ... +60 °C
-  Pressure regulation
range
1 ... 12 bar



- On-off valve MS...-EM1
manually actuated
- Filter regulator MS...-LFR-D7
- Lubricator MS...-LOE-R
- Mounting bracket MS...-WP

- For filtered and lubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range

General technical data				
Size	MSB4		MSB6	
Pneumatic connection 1, 2, 3	G1/4		G1/2	
Regulating function	With primary pressure compensation			
	With return flow function			
	With secondary venting			
	Output pressure constant			
Type of mounting	Via accessories			
Assembly position	Vertical ±5°			
Grade of filtration [µm]	5	40	5	40
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [6:4:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:-]	Compressed air in accordance with ISO 8573-1:2010 [6:4:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:-]
Bowl guard	Plastic bowl guard			
Condensate drain	Manual rotary			
	Fully automatic			
Actuator lock	Rotary knob with detent			
	Lockable with accessories			
Pressure regulation range [bar]	1 ... 12			
Pressure indicator	With pressure gauge			

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

Standard nominal flow rate q _{nN} [l/min]			
Size	MSB4		MSB6
Grade of filtration	5 µm	700	3,000
	40 µm	750	3,100

Service unit combinations MSB4/MSB6, MS series

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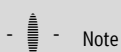
Technical data – Combination 8

Operating and environmental conditions				
Condensate drain	Manual rotary		Fully automatic	
Size	MSB4	MSB6	MSB4	MSB6
Operating pressure [bar]	1.5 ... 14	1.5 ... 18	2 ... 12	2 ... 12
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
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 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
Service unit combination	1,500	1,750
Mounting bracket	40	76



Note

Materials → Technical data of the individual devices

Standard flow rate qn as a function of output pressure p2

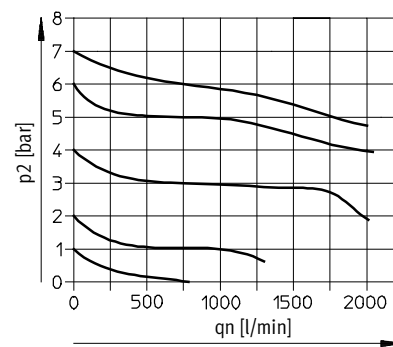
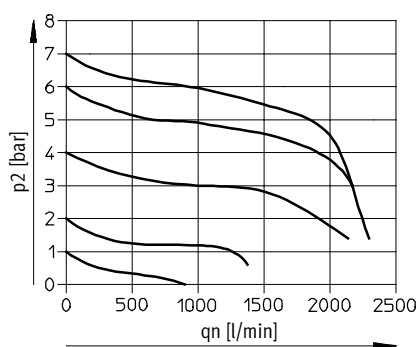
Pressure regulation range 1 ... 12 bar

Grade of filtration 5 µm

Grade of filtration 40 µm

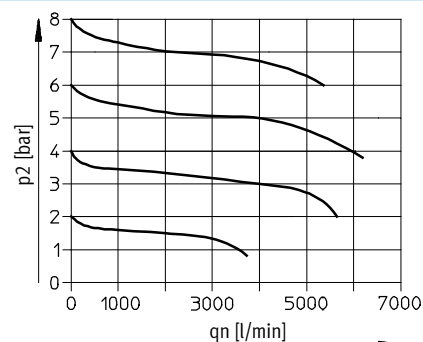
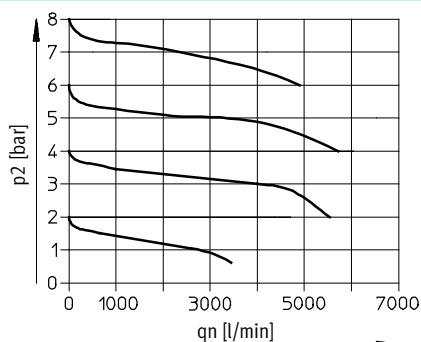
MSB4-1/4

Primary pressure p1 = 10 bar



MSB6-1/2

Primary pressure p1 = 10 bar



Service unit combinations MSB4/MSB6, MS series

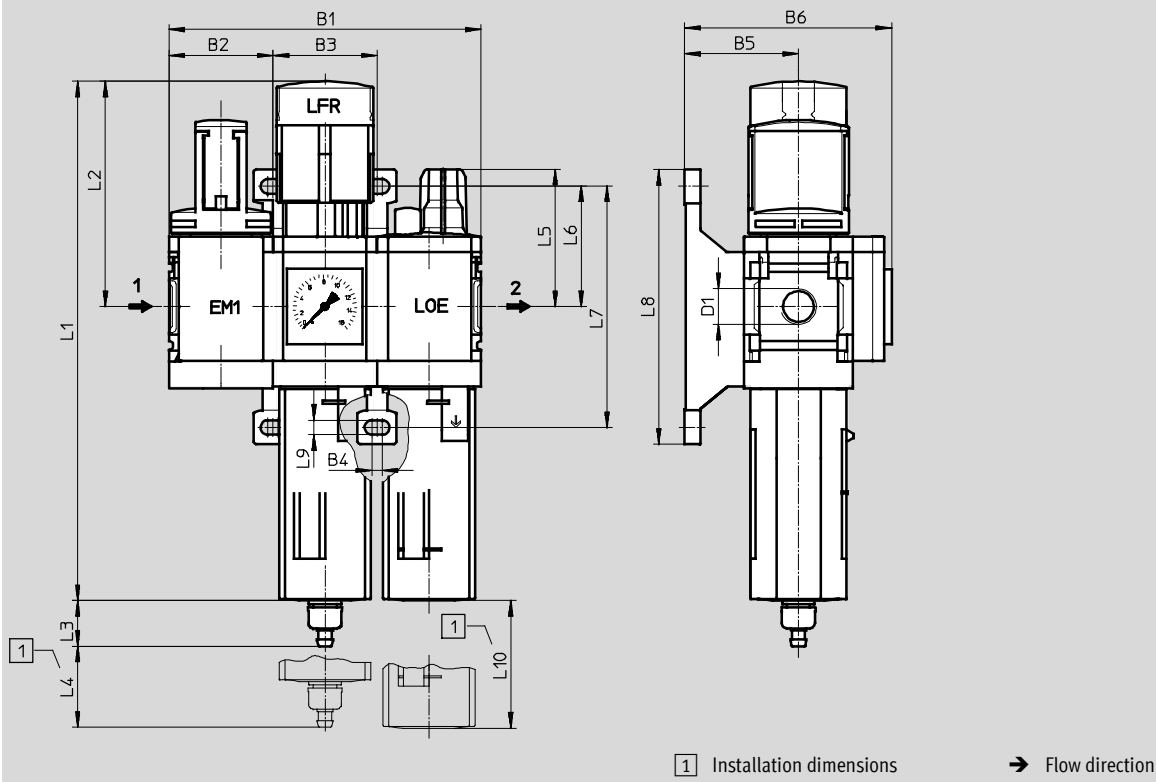
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Technical data – Combination 8

Dimensions

Download CAD data → www.festo.com

With pressure gauge, display unit [bar]



Type	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB4	120.6	40.2	40.2	4	44	80	G $\frac{1}{4}$	201	87
MSB6	186	62	62	4.5	54	100	G $\frac{1}{2}$	285	134.5

Type	L3 Condensate drain		L4	L5	L6	L7	L8	L9	L10
	manual rotary	fully auto- matic							
MSB4	17.7	20.4	25	53	46.5	93.2	106	5.6	80
MSB6	15.8	18.5	68	66	71	142	158	6.6	130

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

Ordering data

Pressure regulation range 1 ... 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	G¼	542308	MSB4-¼:C3J3M1-WP		542296	MSB4-¼:C3J1M1-WP
	fully automatic	G¼	542314	MSB4-¼:C3J4M1-WP		542302	MSB4-¼:C3J2M1-WP
MSB6	manual rotary	G½	542284	MSB6-½:C3J3M1-WP		542272	MSB6-½:C3J1M1-WP
	fully automatic	G½	542290	MSB6-½:C3J4M1-WP		542278	MSB6-½:C3J2M1-WP

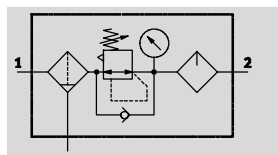
Service unit combinations MSB4/MSB6, MS series

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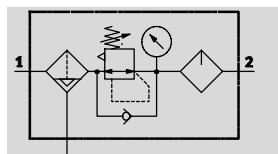
Technical data – Combination 9

Function

With condensate drain
manual rotary



With condensate drain
fully automatic



-  Flow rate
700 ... 4,700 l/min
-  Temperature range
-10 ... +60 °C
-  Pressure regulation range
1 ... 12 bar



- For filtered and lubricated compressed air
- Output pressure is infinitely adjustable within the pressure regulation range

- Filter MS...-LF
- Pressure regulator MS...-LR
- Lubricator MS...-LOE
- Mounting bracket MS...-WP

General technical data					
Size		MSB4		MSB6	
Pneumatic connection 1, 2		G¼		G½	
Type of mounting		Via accessories			
Assembly position		Vertical ±5°			
Grade of filtration [µm]		5	40	5	40
Air purity class at the output		Compressed air in accordance with ISO 8573-1:2010 [6:4:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:-]	Compressed air in accordance with ISO 8573-1:2010 [6:4:-]	Compressed air in accordance with ISO 8573-1:2010 [7:4:-]
Bowl guard		Plastic bowl guard			
		Integrated as metal bowl			
Condensate drain		Manual rotary			
		Fully automatic			
Actuator lock		Rotary knob with detent			
		Lockable with accessories			
Pressure regulation range	N2 [bar]	1 ... 7			
	N3 [bar]	1 ... 12			
Pressure indicator		With pressure gauge			

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

Standard nominal flow rate qnN [l/min]			
Size		MSB4	MSB6
N2 – Pressure regulation range 1 ... 7 bar			
Grade of filtration	40 µm	1,300	4,700
N3 – Pressure regulation range 1 ... 12 bar			
Grade of filtration	5 µm	700	3,500
	40 µm	800	3,500

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 9

Operating and environmental conditions				
Condensate drain	Manual rotary		Fully automatic	
Size	MSB4	MSB6	MSB4	MSB6
Operating pressure [bar]	1.5 ... 14	1.5 ... 18	2 ... 12	2 ... 12
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
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 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
Service unit combination		
With plastic bowl guard	1,000	2,000
With metal bowl	–	2,400
Mounting bracket		
	40	76

-  - Note
Materials → Technical data of the individual devices

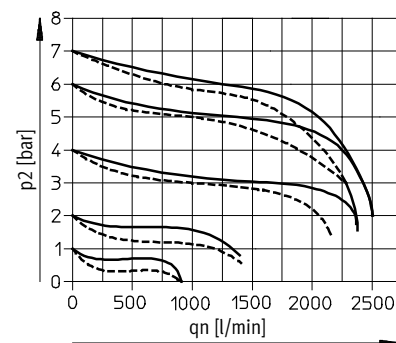
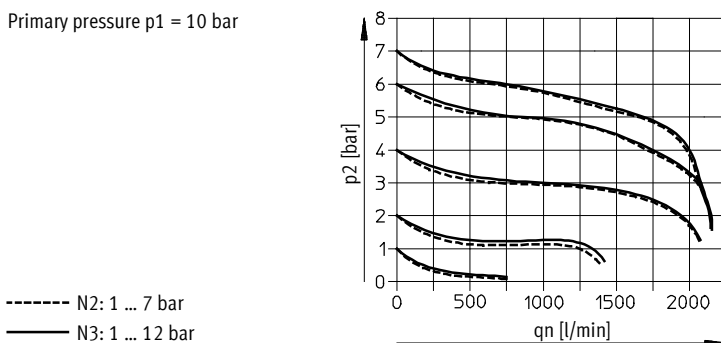
Standard flow rate qn as a function of output pressure p2

Pressure regulation range N2 or N3
MSB4-1/4

Grade of filtration 5 µm

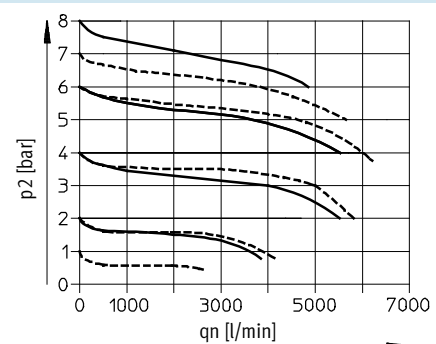
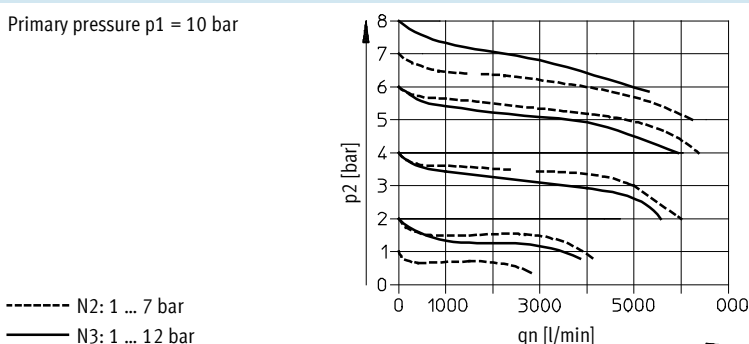
Grade of filtration 40 µm

Primary pressure p1 = 10 bar



MSB6-1/2

Primary pressure p1 = 10 bar



Service unit combinations MSB4/MSB6, MS series

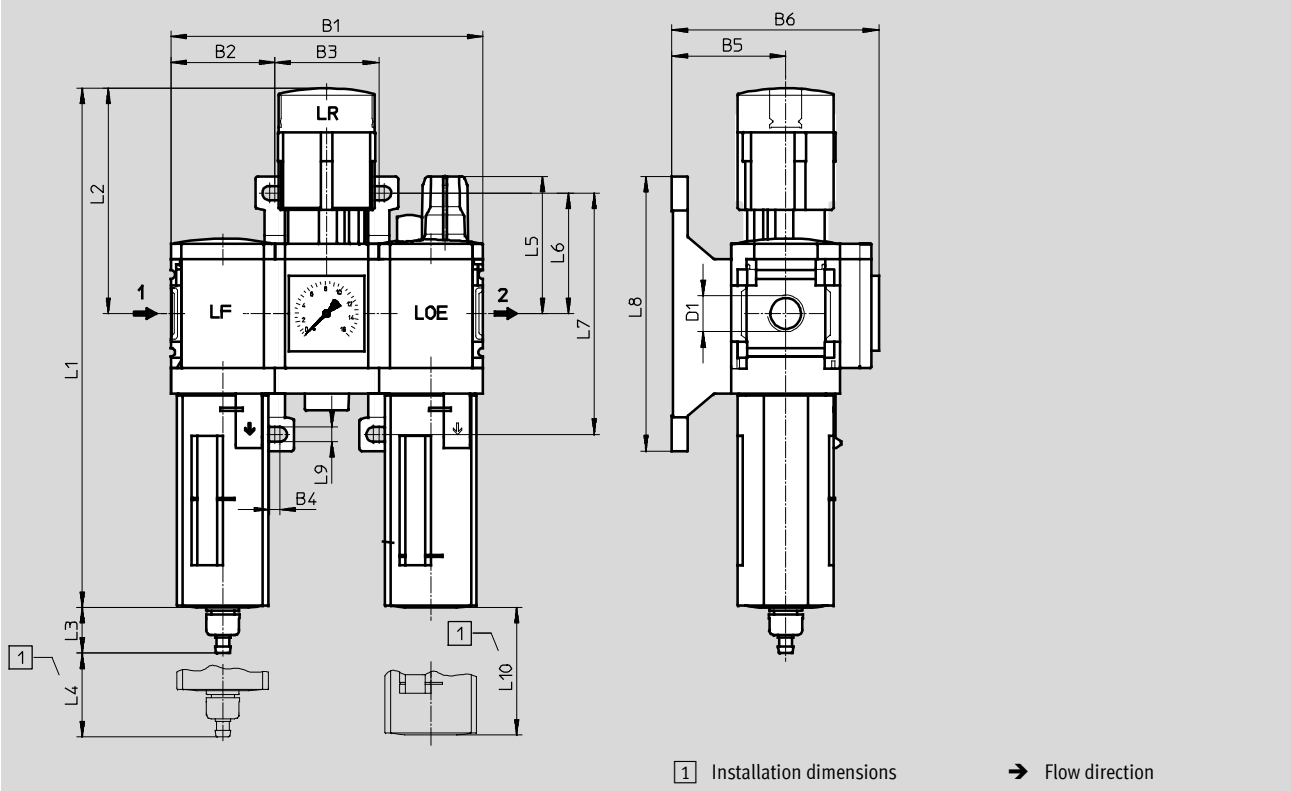
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Technical data – Combination 9

Dimensions

Download CAD data → www.festo.com

With pressure gauge, display unit [bar]



Type	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB4	120.6	40.2	40.2	4	44	80	G $\frac{1}{4}$	201	87
MSB6	186	62	62	4.5	54	100	G $\frac{1}{2}$	285	134.5

Type	L3 Condensate drain		L4	L5	L6	L7	L8	L9	L10
	manual rotary	fully auto- matic							
MSB4	17.7	20.4	25	53	46.5	93.2	106	5.6	80
MSB6	15.8	18.5	68	66	71	142	158	6.6	130

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

Service unit combinations MSB4/MSB6, MS series

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Technical data – Combination 9

Ordering data				
Pressure regulation range 1 ... 7 bar				
Size	Condensate drain	Connection	Grade of filtration 40 µm	
			Part No.	Type
Plastic bowl guard				
MSB4	manual rotary	G¼	531091	MSB4-¼:H2N2M1-WP
	fully automatic	G¼	531085	MSB4-¼:H1N2M1-WP
MSB6	manual rotary	G½	530212	MSB6-½:H2N2M1-WP
	fully automatic	G½	530206	MSB6-½:H1N2M1-WP

Ordering data						
Pressure regulation range 1 ... 12 bar						
Size	Condensate drain	Connection	Grade of filtration 5 µm			Grade of filtration 40 µm
			Part No.	Type		Part No.
Plastic bowl guard						
MSB4	manual rotary	G¼	531097	MSB4-¼:H3N3M1-WP		531093 MSB4-¼:H2N3M1-WP
	fully automatic	G¼	531099	MSB4-¼:H4N3M1-WP		531087 MSB4-¼:H1N3M1-WP
MSB6	manual rotary	G½	530218	MSB6-½:H3N3M1-WP		530214 MSB6-½:H2N3M1-WP
	fully automatic	G½	530220	MSB6-½:H4N3M1-WP		530208 MSB6-½:H1N3M1-WP
Metal bowl						
MSB4	manual rotary	G¼	–			531095 MSB4-¼:H8N3M2-WP
	fully automatic	G¼	–			531089 MSB4-¼:H7N3M2-WP
MSB6	manual rotary	G½	–			530216 MSB6-½:H8N3M2-WP
	fully automatic	G½	–			530210 MSB6-½:H7N3M2-WP

Service unit combinations MSB, MS series

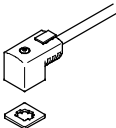
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Accessories

Ordering data – Silencer U				Technical data → Internet: u	
	Description	Pneumatic connection	Part No.	Type	
	for MS4-EM1/EE	G $\frac{1}{4}$	6842	U-$\frac{1}{4}$-B	
	for MS6-EM1/EE	G $\frac{1}{2}$	6844	U-$\frac{1}{2}$-B	

Ordering data – Angled socket PEV					Technical data → Internet: pev	
	Description	Operating voltage range	Electrical connection	Switching status display	Part No.	Type
	for PEV- $\frac{1}{4}$ -...-OD	15 ... 30 V DC	4-pin	Yellow LED	164274	PEV-$\frac{1}{4}$-WD-LED-24
		≤ 230 V AC	4-pin	Yellow LED	164275	PEV-$\frac{1}{4}$-WD-LED-230
		≤ 180 V DC				

Ordering data – Plug socket MSSD					Technical data → Internet: mssd	
	Description	Operating voltage range	Electrical connection	Type of mounting cable connection	Part No.	Type
	for PEV- $\frac{1}{4}$ -...-OD	≤ 250 V AC/DC	3-pin	Clamping screws	171157	MSSD-C-4P
	for MS4/6-EE/DE	≤ 250 V AC/DC	3-pin	Clamping screws	151687	MSSD-EB
			4-pin	Insulation displacement technology	192745	MSSD-EB-S-M14

Ordering data – Plug socket with cable KMEB						Technical data → Internet: kmeb	
	Description	Operating voltage range	Electrical connection	Switching status display	Cable length [m]	Part No.	Type
	for MS4/6-EE/DE	24 V DC	2-pin	LED	2.5	547268	KMEB-3-24-2,5-LED
					5	547269	KMEB-3-24-5-LED
				–	2.5	547270	KMEB-3-24-2,5
					5	547271	KMEB-3-24-5
			3-pin	LED	2.5	151688	KMEB-1-24-2,5-LED
					5	151689	KMEB-1-24-5-LED
					10	193457	KMEB-1-24-10-LED
		230 V AC	3-pin	–	2.5	151690	KMEB-1-230AC-2,5
					5	151691	KMEB-1-230AC-5

Ordering data – Illuminating seal MEB-LD				Technical data → Internet: meb	
	Description	Operating voltage range		Part No.	Type
	for plug socket with cable KMEB and plug socket MSSD-EB	12 ... 24 V DC		151717	MEB-LD-12-24DC
		230 V DC/AC ±10%		151718	MEB-LD-230AC

Ordering data – Padlock LRVS-D			
	Description	Weight [g]	Part No. Type
	for filter or pressure regulators	120	193786 LRVS-D