

Water separators MS-LWS, MS series

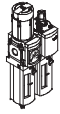
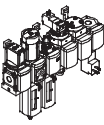
FESTO



Water separators MS-LWS, MS series

FESTO

Product range overview – MS series service units

Type	Size	Pneumatic connection in housing	Connecting plate	Pressure regulation range [bar]						Grade of filtration [µm]			
				0.05 ... 0.7	0.05 ... 2.5	0.1 ... 4	0.3 ... 7	0.1 ... 12	0.5 ... 16	0.01	1	5	40
Code			AG...	D2	D4	D5	D6	D7	D8	A	B	C	E
Service units													
MSB-FRC 	4	G1/8, G1/4	G1/8, G1/4, G3/8	–	–	–	■	■	–	–	–	■	■
	6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	–	–	–	■	■	–	–	–	■	■
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–
Service unit combinations (further variants can be ordered using the configurator → Internet: msb4, msb6 or msb9)													
MSB 	4	G1/4	G1/8, G1/4, G3/8	–	–	–	■	■	–	–	–	■	■
	6	G1/2	G1/4, G3/8, G1/2, G3/4	–	–	–	■	■	–	–	–	■	■
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	–	–	–	–	–	–	–	–	–	–
Individual devices													
Filter regulators MS-LFR 	4	G1/8, G1/4	G1/8, G1/4, G3/8	–	–	■	■	■	–	–	–	■	■
	6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	–	–	■	■	■	■	–	–	■	■
	9	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	–	G1, G11/4, G11/2, G2	–	–	–	–	–	–	–	–	–	–

Water separators MS-LWS, MS series

Product range overview – MS series service units

FESTO

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	■	■	■	–	■	–	–	■	–	–	–	■	–	–	■	msb4
	6	■	■	■	–	■	–	–	■	–	–	–	■	–	–	■	msb6
	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	–	■	–	–	■	■	–	–	–	–	–	–	–	–	■	8
	9	–	■	–	–	■	■	–	–	–	–	–	–	–	–	■	14
	12	–	■	–	–	■	■	–	–	–	–	–	–	–	–	■	22

Water separators MS-LWS, MS series

Product range overview – MS series service units

FESTO

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 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
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	–	–	–	–	–	–	–	–	–
On-off valves, manually actuated 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	–	–	–	–	–	–	–	–	–
On-off valves, electrically actuated 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	–	–	–	–	–	■	■	■	■
Soft-start valves, pneumatically actuated 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	–	–	–	–	–	–	–	–	–
Soft-start valves, electrically actuated 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	–	–	–	–	–	■	■	■	■

Water separators MS-LWS, MS series

Product range overview – MS series service units

FESTO

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
On-off valves, manually actuated MS-EM(1)	4	–	–	■	■	■	■	■	–	–	■	■	ms4-em1
	6	–	–	■	■	–	■	■	–	–	■	■	ms6-em1
	9	–	–	■	■	–	■	–	–	–	■	■	ms9-em
	12	–	–	■	■	–	■	–	–	–	■	■	ms12-em
On-off valves, electrically actuated MS-EE	4	–	–	■	■	■	■	■	–	–	■	■	ms4-ee
	6	–	–	■	■	–	■	■	–	–	■	■	ms6-ee
	9	–	–	■	■	–	■	–	–	–	■	■	ms9-ee
	12	–	–	■	■	–	■	–	–	–	■	■	ms12-ee
Soft-start valves, pneumatically actuated MS-DL	4	–	–	■	■	■	■	■	–	–	–	■	ms4-dl
	6	–	–	■	■	–	■	■	–	–	–	■	ms6-dl
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	■	■	–	■	–	–	–	–	■	ms12-dl
Soft-start valves, electrically actuated MS-DE	4	–	–	■	■	■	■	■	–	–	–	■	ms4-de
	6	–	–	■	■	–	■	■	–	–	–	■	ms6-de
	9	–	–	–	–	–	–	–	–	–	–	–	–
	12	–	–	■	■	–	■	–	–	–	–	■	ms12-de

Water separators MS-LWS, MS series

FESTO

Product range overview – MS series service units

Type	Size	Pneumatic connection in housing	Connecting plate	Performance Level		Supply voltage			
				Category 1, 1-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	E	V24	V24P	V110	V230
Individual devices									
Soft start and exhaust valves MS-SV-C		4	–						
		6	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	–						
Soft start and exhaust valves MS-SV-E		4	–						
		6	G1/2	G1/4, G3/8, G1/2, G3/4	–	■	■	–	–
		9	–						
		12	–						
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	–						

Water separators MS-LWS, MS series

Product range overview – MS series service units

FESTO

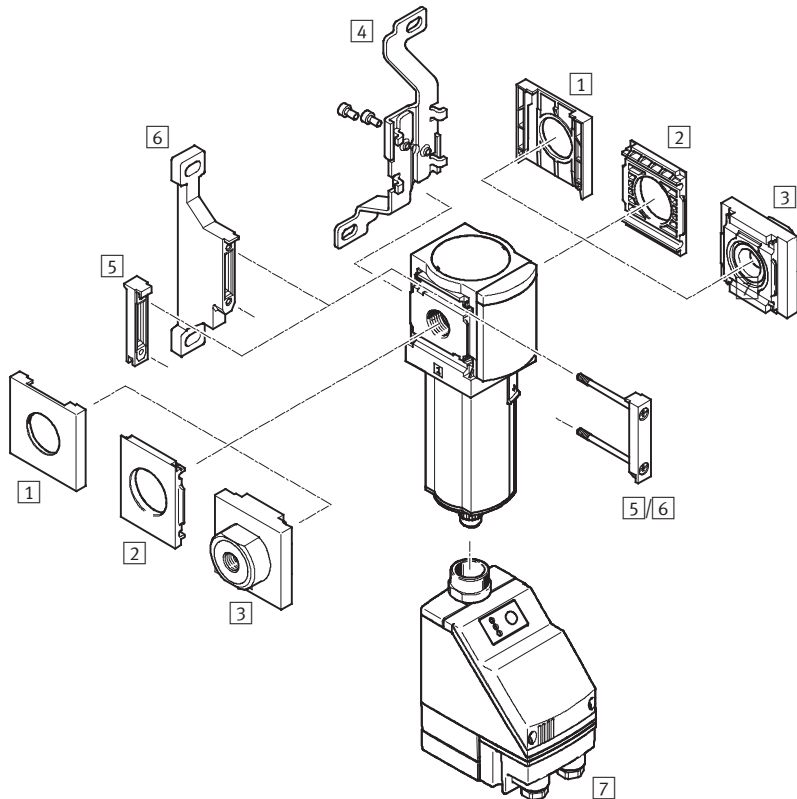
Type	Size	Bowl guard		Pressure indicator					Switch output		Options		→ Page/ Internet
		Plastic bowl with plastic bowl guard	Metal bowl	Cover plate (without pressure gauge)	Integrated MS pressure gauge	Adapter plate for EN pressure gauge G1/8	Adapter plate for EN pressure gauge G1/4	Pressure sensor	2x 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													
Soft start and exhaust valves MS-SV-C	4	–											–
	6	–	–	■	■	–	■	■	–	–	■	■	ms6-sv
	9	–	–	■	■	–	■	■	–	–	■	■	ms9-sv
	12	–											–
Soft start and exhaust valves MS-SV-E	4	–											–
	6	–	–	■	■	–	■	■	–	–	■	■	ms6-sv
	9	–											–
	12	–											–
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	–											–

Water separators MS6-LWS, MS series

Peripherals overview

FESTO

Water separator MS6-LWS



Note

Additional accessories:

- Module connector for combination with size MS4/MS6 or size MS9 → Internet: amv, rmv, armv
- Adapter for mounting on profiles → Internet: ipm-80, ipm-40-80, ipm-80-80

Mounting attachments and accessories						
		Individual device		Combination		➔ Page/Internet
		Without connecting plate	With connecting plate	Without connecting plate	With connecting plate	
1	Cover cap MS6-END	■	–	■	–	ms6-end
2	Mounting plate MS6-AEND	■ ¹⁾	–	■ ¹⁾	–	ms6-aend
3	Connecting plate MS6-AG...	–	■ ¹⁾	–	■ ¹⁾	ms6-ag
4	Mounting bracket MS6-WB	■	■	–	–	ms6-wb
5	Module connector MS6-MV	–	■	■	■	ms6-mv
6	Mounting bracket MS6-WP	■	■	■	■	ms6-wp
	Mounting bracket (not illustrated) MS6-WPB/WPE/WPM	■	■	■	■	ms6-wp
7	Fully automatic, electrically actuated condensate drain E2/E3/E4	■	■	■	■	13

1) Module connector MS6-MV [5] or mounting bracket MS6-WP/WPB/WPE/WPM [6] is required for mounting.

Water separators MS6-LWS, MS series

FESTO

Type codes

		MS	6	-	LWS	-	1/4	-	U	-	V
Series											
MS	Standard service unit										
Size											
6	Grid dimension 62 mm										
Service function											
LWS	Water separator										
Pneumatic connection											
1/4	Thread G1/4										
3/8	Thread G3/8										
1/2	Thread G1/2										
Bowl guard											
U	Integrated as metal bowl										
Condensate drain											
V	Fully automatic										

Further variants can be ordered using the modular system → 13

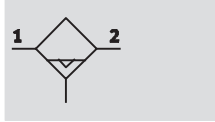
- Connecting plates
- Condensate drain
- Type of mounting
- Alternative flow direction

Water separators MS6-LWS, MS series

FESTO

Technical data

Condensate drain,
fully automatic



Flow rate
2,400 ... 3,800 l/min
Temperature range
+1 ... +60 °C
Pressure
0.8 ... 16 bar



The maintenance-free water separator removes condensate from the compressed air.

- Constantly high condensate separation (99%) up to the maximum flow rate
- Metal bowl
- Available with fully automatic or fully automatic, electrically actuated condensate drain

General technical data				
Size	MS6			
Pneumatic connection 1, 2	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{1}{4}$... G $\frac{3}{4}$ (with connecting plate AG...)
Constructional design	Centrifugal separator			
Type of mounting	Via accessories In-line installation			
Mounting position	Vertical $\pm 5^\circ$			
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [7:7:4] (with variant E2, E3 or E4: [-:7:4])			
Bowl guard	Integrated as metal bowl			
Condensate drain	Fully automatic Fully automatic, electrically actuated			
Degree of condensate separation [%]	99			
Max. condensate volume [ml]	38			

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

Standard nominal flow rate qnN ¹⁾			
Size	MS6		
Pneumatic connection	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$
qnN [l/min]	2,400	3,500	3,800

1) Measured at p₁ = 6 bar and Δp = 1 bar

Operating and environmental conditions		
Condensate drain	Fully automatic V	Fully automatic, electrically actuated E2/E3/E4
Size	MS6	MS6
Supply pressure [bar]	2 ... 12	0.8 ... 16
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-] Inert gases	Compressed air in accordance with ISO 8573-1:2010 [-:-:-]
Ambient temperature [°C]	+5 ... +60	+1 ... +60
Temperature of medium [°C]	+5 ... +60	+1 ... +60
Storage temperature [°C]	-10 ... +60	+1 ... +60
Corrosion resistance class CRC ¹⁾	2	

1) Corrosion resistance class 2 to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricants.

Water separators MS6-LWS, MS series

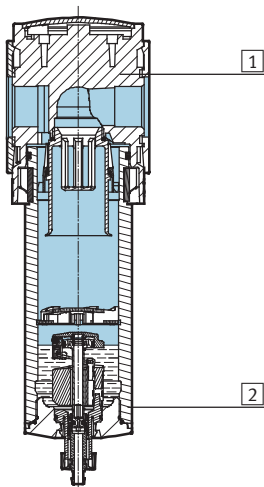
Technical data

FESTO

Weight [g]	
Size	MS6
Water separator	820
Water separator with fully automatic, electrically actuated condensate drain E2/E3/E4	1,800

Materials

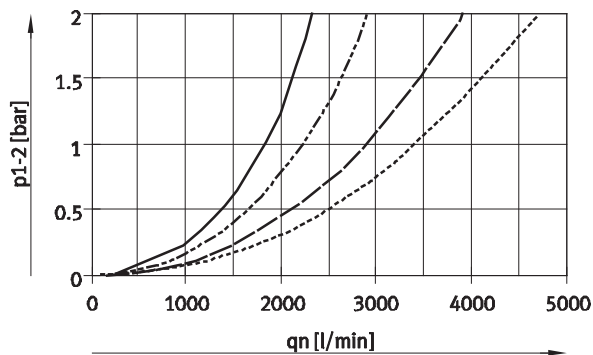
Sectional view



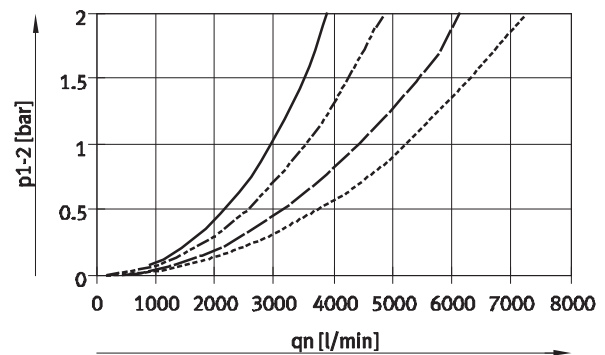
Water separator		
1	Housing	Die-cast aluminium
2	Bowl	Wrought aluminium alloy
	Inspection window	PA
–	Seals	NBR
Note on materials		RoHS-compliant (not with variant E2, E3 or E4)
		Free of copper and PTFE

Standard flow rate q_n as a function of differential pressure p_{1-2}

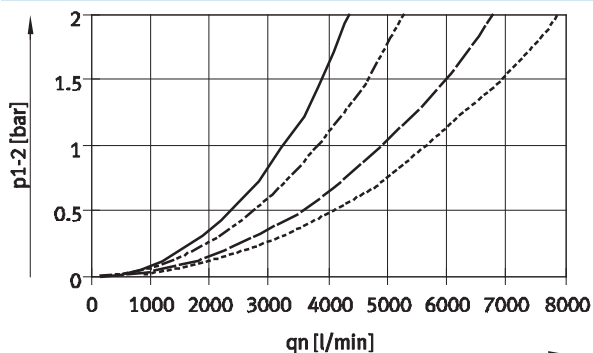
MS6-LWS-1/4



MS6-LWS-3/8



MS6-LWS-1/2



— 4 bar
 - - - 6 bar
 - . - . 10 bar
 - . - . 14 bar

Water separators MS6-LWS, MS series

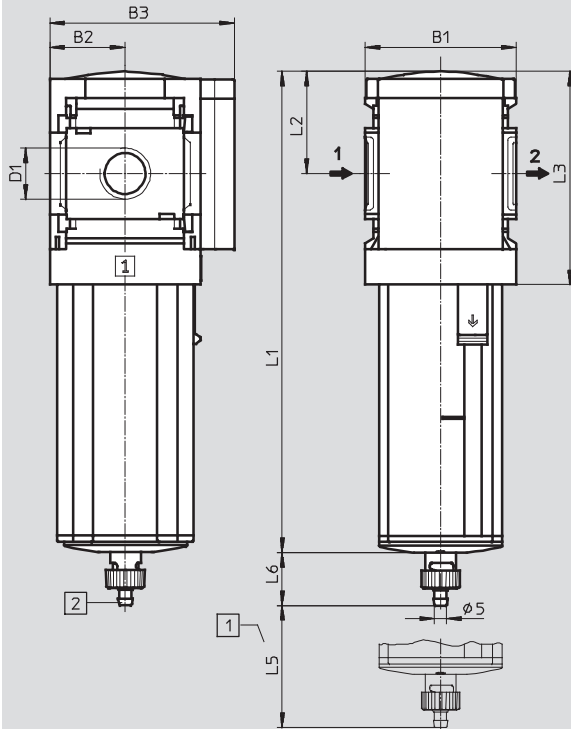
Technical data

FESTO

Dimensions – Standard

Download CAD Data → www.festo.com/us/cad

Fully automatic condensate drain V



- 1 Installation dimensions
- 2 Barbed connector for plastic tubing PCN-4

→ Flow direction

Type	B1	B2	B3	D1	L1	L2	L3	L5	L6
MS6-LWS-1/4-...-V	62	31	76	G1/4	198	42	87	68	22
MS6-LWS-3/8-...-V				G3/8					
MS6-LWS-1/2-...-V				G1/2					

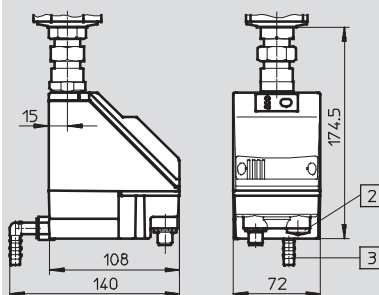
Note: This product conforms to ISO 1179-1 and ISO 228-1

Dimensions – Condensate drain

Download CAD Data → www.festo.com/us/cad

Fully automatic, electrically actuated E2/E3/E4

Technical data → Internet: pwea



Condensate drain PWEA:

- 2 Electrical connection: Screw terminal PG9
- 3 Connection 360° rotatable for plastic tubing PUN-H-12x2

Ordering data

Size	Condensate drain	Connection	Part No.	Type
Integrated as metal bowl				
MS6	Fully automatic	G1/4	564868	MS6-LWS-1/4-U-V
		G3/8	564869	MS6-LWS-3/8-U-V
		G1/2	564870	MS6-LWS-1/2-U-V

Water separators MS6-LWS, MS series

Ordering data – Modular products

FESTO

M Mandatory data							O Options	
Module No.	Series	Size	Function	Connection size	Bowl guard	Condensate drain	Type of mounting	Alternative flow direction
564858	MS	6	LWS	1/4, 3/8, 1/2, AGB, AGC, AGD, AGE	U	V, E2, E3, E4	WP, WPM, WB	Z
Ordering example								
564858	MS	6	- LWS	- AGB	- U	- V	- WP	- Z

Ordering table					
Grid dimension	[mm]	62	Condition s	Code	Enter code
M	Module No.	564858			
	Series	Standard		MS	MS
	Size	6		6	6
	Function	Water separator		-LWS	-LWS
	Connection size	Thread G1/4		-1/4	
		Thread G3/8		-3/8	
		Thread G1/2		-1/2	
		Connecting plate G1/4		-AGB	
		Connecting plate G3/8		-AGC	
		Connecting plate G1/2		-AGD	
		Connecting plate G3/4		-AGE	
	Bowl guard	Metal bowl		-U	-U
	Condensate drain	Fully automatic (P1 max. 12 bar)		-V	
		External fully automatic condensate drain, electrical, 110 V AC, terminals (P1 max. 16 bar)		-E2	
		External fully automatic condensate drain, electrical, 230 V AC, terminals (P1 max. 16 bar)		-E3	
		External fully automatic condensate drain, electrical, 24 V DC, terminals (P1 max. 16 bar)		-E4	
O	Type of mounting	Mounting bracket	1	-WP	
		Mounting bracket	1	-WPM	
		Mounting bracket		-WB	
	Alternative flow direction	Flow direction from right to left		-Z	

1 WP, WPM Only with connecting plate AGB, AGC, AGD or AGE

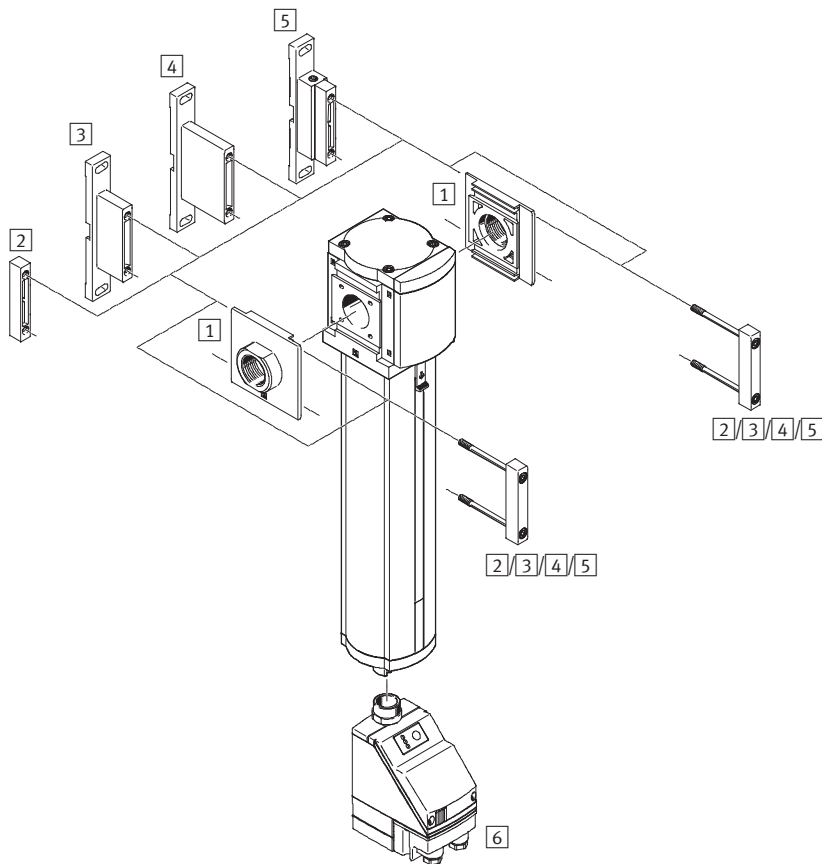
Transfer order code

564858	MS	6	- LWS	-	-U	-	-	-	-
--------	----	---	-------	---	----	---	---	---	---

Water separators MS9-LWS, MS series

Peripherals overview

FESTO



Note

Additional accessories:

- Module connector for combinations with size MS6, MS9 or MS12

→ Internet: rmv, armv

Mounting attachments and accessories						
		Individual device			Combination	➔ Page/ Internet
		With female thread ¾ or 1	With connecting plate AG...		Module without connecting thread, without connecting plate G	
			Without EU certification EX4	With EU certification EX4		
1	Connecting plate MS9-AG...	–	■	■	■	ms9-ag
2	Module connector MS9-MV	–	–	–	■	ms9-mv
3	Mounting bracket MS9-WP	■	■	■	■	ms9-wp
4	Mounting bracket MS9-WPB	■	■	■	■	ms9-wp
5	Mounting bracket MS9-WPM	■	■	–	■	ms9-wp
6	Condensate drain, fully automatic, electrically actuated E2/E3/E4	■	■	–	■	20

Water separators MS9-LWS, MS series

Type codes

		MS	9	-	LWS	-	G	-	U	-	V
Series											
MS	Standard service unit										
Size											
9	Grid dimension 90 mm										
Service function											
LWS	Water separator										
Connection size											
G	Module without connecting thread, without connecting plate										
Bowl guard											
U	Integrated as metal bowl										
Condensate drain											
V	Fully automatic										

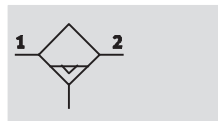
Additional variants can be ordered using the modular product system → 20

- Connecting plates
- Condensate drain
- Type of mounting
- EU certification
- UL certification
- Alternative flow direction

Water separators MS9-LWS, MS series

Technical data

Condensate drain,
fully automatic



Flow rate
12,000 ... 15,000 l/min

Temperature range
+1 ... +60 °C

Pressure
0.8 ... 16 bar



The water separator removes
condensate from the compressed air.

- Constantly high condensate separation (99%) up to the maximum flow rate
- Metal bowl
- Available with fully automatic or fully automatic, electrically actuated condensate drain
- Optional device variant EX4 for use in potentially explosive areas in zones 1, 2, 21 and 22

General technical data				
Size	MS9			
Pneumatic connection 1, 2	G¾	G1	G½ ... G1½ (with connecting plate AG...)	– (without connecting thread G)
Design	Centrifugal separator			
Type of mounting	Via accessories			
	In-line installation			
Mounting position	Vertical ±5°			
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [–:7:4]			
Bowl guard	Integrated as metal bowl			
Condensate drain	Fully automatic			
	Fully automatic, electrically actuated			
Degree of condensate separation [%]	99			
Max. condensate volume [ml]	220			

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

Standard nominal flow rate q _N ¹⁾ [l/min]				
Pneumatic connection	Thread G¾ or connecting plate AGE	Thread G1 or connecting plate AGF	Without connecting thread G	
q _N [l/min]	12,000 ±15%	15,000 ±15%	15,000 ±15%	

1) Measured at p₁ = 6 bar and Δp = 1 bar

Operating and environmental conditions		
Condensate drain	Fully automatic V	Fully automatic, electrically actuated E2/E3/E4
Operating pressure [bar]	2 ... 12	0.8 ... 16
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [–:–:–]	
Ambient temperature [°C]	+5 ... +60	+1 ... +60
Temperature of medium [°C]	+5 ... +60	+1 ... +60
Storage temperature [°C]	+5 ... +60	+1 ... +60
Corrosion resistance class CRC ¹⁾	2	
Certification (variant UL1)	cULus recognized (OL)	

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. 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.

Water separators MS9-LWS, MS series

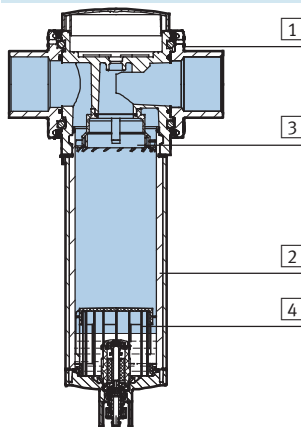
Technical data

ATEX	
EU certification	EX4
ATEX category gas	II 2G
Ex-ignition protection type gas	c T6 X
ATEX category dust	II 2D
Ex-ignition protection type dust	c 60 °C X
ATEX ambient temperature	+5 °C ≤ Ta ≤ +60 °C
CE mark (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)

Weight [g]	
Water separator	2,000
Water separator with condensate drain, fully automatic, electrically actuated E2/E3/E4	2,400

Materials

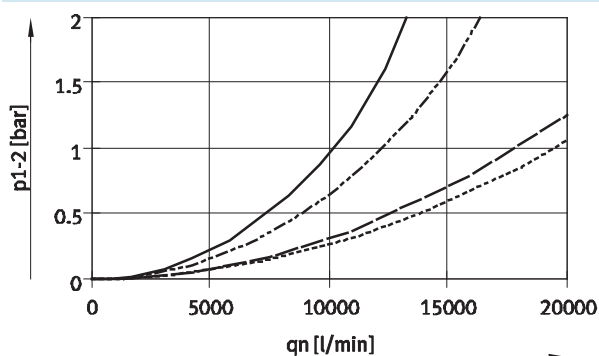
Sectional view



Water separator		
1	Housing	Die-cast aluminium
2	Bowl	Wrought aluminium alloy
	Inspection window	PA
3	Spin disc	POM
4	Isolating disc	POM
–	Cover	PA reinforced
–	Connecting plate, module connector, mounting bracket	Die-cast aluminium
–	Seals	NBR
Note on materials		RoHS-compliant (not with variant E2, E3 or E4)

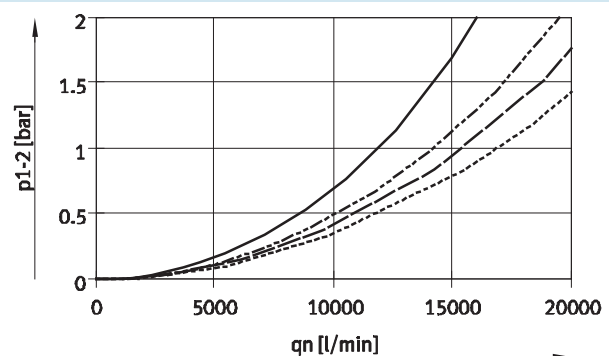
Standard flow rate q_n as a function of differential pressure Δp_{1-2}

MS9-LWS-3/4/AGE, pneumatic connection G3/4



— 4 bar - - - 10 bar
- - - 6 bar ····· 12 bar

MS9-LWS-1/AGE, pneumatic connection G1



Water separators MS9-LWS, MS series

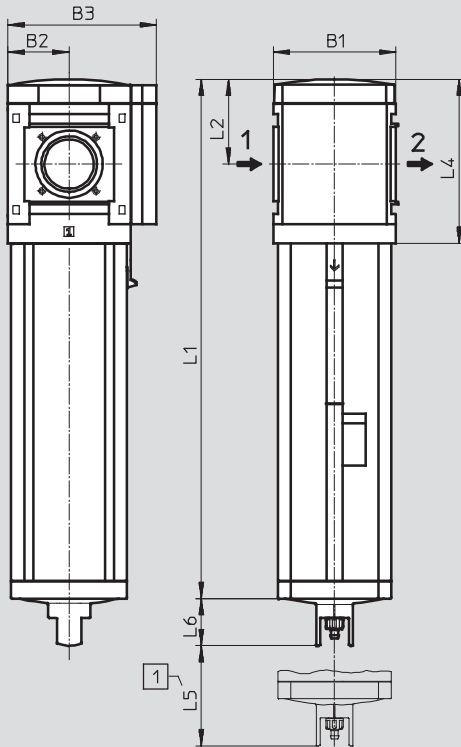
Technical data

FESTO

Dimensions – Basic version

Download CAD Data → www.festo.com/us/cad

Without connecting thread G, fully automatic condensate drain V



1 Installation dimensions

→ Flow direction

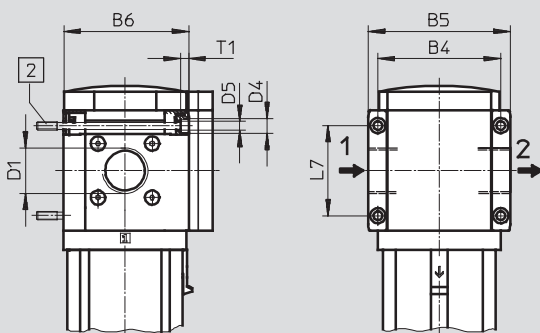
Type	B1	B2	B3	L1	L2	L4	L5	L6
MS9-LWS-G	90	45	109	310.5	62	120	50	34.5

Dimensions – Connecting thread/connecting plate

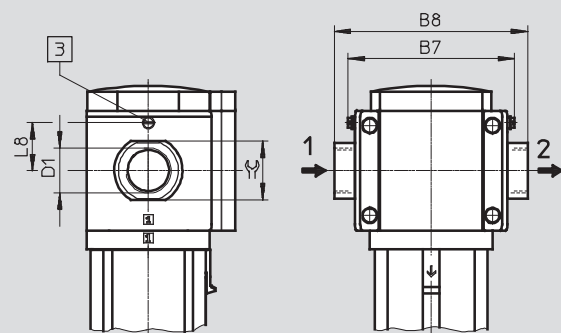
Download CAD Data → www.festo.com/us/cad

With connecting thread 3/4 or 1

With connecting plate AG...



2 Mounting screw M6xmin.90 to DIN 912 (not included in the scope of delivery) for wall mounting without mounting bracket



3 Earthing screw M4x8 (only with MS9-...-EX4)

→ Flow direction

Type	B4	B5	B6	B7		B8	D1	D4	D5	L7	L8	T1	≡
					EX4						EX4		
MS9-LWS-¾	90	104	91.5	-	-	-	G¾	11	6.5	66	-	6	-
MS9-LWS-1							G1						
MS9-LWS-AGD	-	-	-	112	122	132	G½	-	-	-	35	-	30
MS9-LWS-AGE						132	G¾						36
MS9-LWS-AGF						142	G1						41
MS9-LWS-AGG						162	G1¼						50
MS9-LWS-AGH						176	G1½						55

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

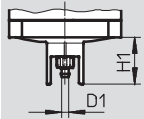
Water separators MS9-LWS, MS series

Technical data

Dimensions – Condensate drain

Download CAD Data → www.festo.com/us/cad

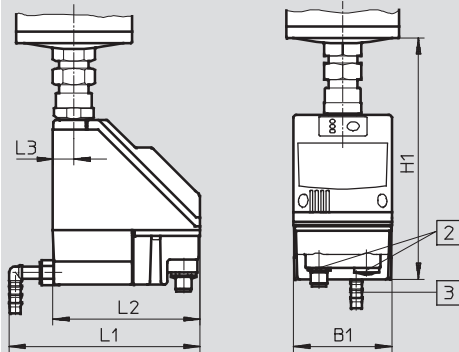
Fully automatic V



Barbed connector for plastic tubing
PCN-4

Fully automatic, electrically actuated E2/E3/E4

Technical data → Internet: pwea



Condensate drain PWEA:

-  Electrical connection: Screw terminal PG9
-  Connection 360° rotatable for plastic tubing PUN-H-12x2

Type	B1	D1	H1	L1	L2	L3
MS9-LWS-...-V	–	5	34.5	–	–	–
MS9-LWS-...-E2/E3/E4	72	–	178	140	108	15

Ordering data

Size	Condensate drain	Connection	Part No.	Type
MS9	Fully automatic	–	571468	MS9-LWS-G-U-V

 New
Variant EX4, UL1

Water separators MS9-LWS, MS series

FESTO

Ordering data – Modular products

M Mandatory data →					
Module No.	Series	Size	Function	Connection size	Bowl
567857	MS	9	LWS	¾, 1, AGD, AGE, AGF, AGG, AGH, G	U
Ordering example					
567857	MS	9	- LWS	- AGD	- U

Ordering table					
Grid dimension	[mm]	90	Condition s	Code	Enter code
M Module No.	567857				
Series	Standard			MS	MS
Size	9			9	9
Function	Water separator			-LWS	-LWS
Connection size	Thread G¾		1	-¾	
	Thread G1		1	-1	
	Connecting plate G½			-AGD	
	Connecting plate G¾			-AGE	
	Connecting plate G1			-AGF	
	Connecting plate G1¼			-AGG	
	Connecting plate G1½			-AGH	
	Module without connecting thread, without connecting plate		1	-G	
↓ Bowl	Metal bowl			-U	-U

1 ¾, 1, G, E2, E3, E4, WPM

Not with EU certification EX4

Transfer order code

567857	MS	9	- LWS	-	- U
---------------	-----------	----------	--------------	----------	------------

Water separators MS9-LWS, MS series

Ordering data – Modular products

→ M Mandatory data		O Options		
Condensate drain	Type of mounting	EU certification	UL certification	Alternative flow direction
V, E2, E3, E4	WP, WPM, WPB	EX4	UL1	Z
- V	- WP	-	-	- Z

Ordering table					
Grid dimension	[mm]	90	Condition s	Code	Enter code
↓ M	Condensate drain	Fully automatic (P1 max. 12 bar)		-V	
		110 V AC, terminals (P1 max. 16 bar)	1	-E2	
		230 V AC, terminals (P1 max. 16 bar)	1	-E3	
		24 V DC, terminals (P1 max. 16 bar)	1	-E4	
O	Type of mounting	Mounting bracket	2	-WP	
		Mounting bracket	1 2	-WPM	
		Mounting bracket for large wall gap	2	-WPB	
	EU certification	II 2GD to EU Directive 94/9/EG		-EX4	
	UL certification	cULus, ordinary location for Canada and USA		-UL1	
	Alternative flow direction	Flow direction from right to left		-Z	

1 ¾, 1, G, E2, E3, E4, WPM

Not with EU certification EX4

2 WP, WPM, WPB

Not with module G

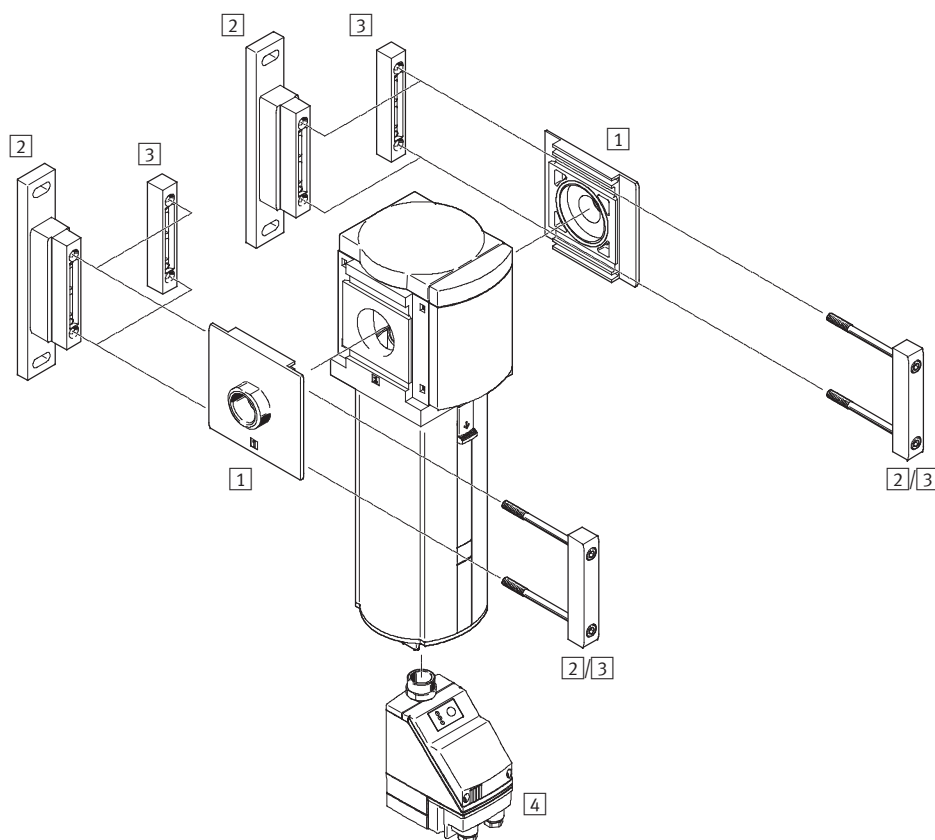
Transfer order code

- - - - -

Water separators MS12-LWS, MS series

Peripherals overview

FESTO



Note

Additional accessories:

- Module connector for combination with size MS9

→ Internet: armv

Mounting attachments and accessories

	→ Page/Internet
1 Connecting plate MS12-AG...	ms12-ag
2 Mounting bracket MS12-WP	ms12-wp
3 Module connector MS12-MV	ms12-mv
4 Fully automatic, electrically actuated condensate drain E2/E3/E4	28

Water separators MS12-LWS, MS series

Type codes

		MS	12	-	LWS	-	G	-	U	-	V
Series											
MS	Standard service unit										
Size											
12	Grid dimension 124 mm										
Service function											
LWS	Water separator										
Pneumatic connection											
G	Module without connecting thread, without connecting plate										
Bowl guard											
U	Integrated as metal bowl										
Condensate drain											
V	Fully automatic										

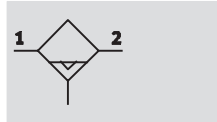
Additional variants can be ordered using the modular product system → 28

- Pneumatic connection
- Condensate drain
- Type of mounting
- Flow direction

Water separators MS12-LWS, MS series

Technical data

Condensate drain,
fully automatic



Flow rate
25,000 l/min
Temperature range
+1 ... +60 °C
Pressure
0.8 ... 16 bar



The water separator removes
condensate from the compressed air.

- Constantly high condensate separation (99%) up to the maximum flow rate
- Metal bowl
- Available with fully automatic or fully automatic, electrically actuated condensate drain

General technical data					
Pneumatic connection 1, 2	G1 (with connecting plate AGF)	G1¼ (with connecting plate AGG)	G1½ (with connecting plate AGH)	G2 (with connecting plate AGI)	– (module without connecting thread, without connecting plate G)
Design	Centrifugal separator				
Type of mounting	Via accessories In-line installation				
Mounting position	Vertical ±5°				
Air purity class at the output	Compressed air to ISO 8573-1:2010 [–:7:4]				
Bowl guard	Integrated as metal bowl				
Condensate drain	Fully automatic Fully automatic, electrically actuated				
Degree of condensate separation [%]	99				
Max. condensate volume [ml]	400				

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

Flow rates		
Standard nominal flow rate [l/min] $q_{nN}^{1)}$	25,000 ±15%	
Max. standard flow rate [l/min] $q_{n \max.}$	40,000 ±15%	

1) Measured at $p_1 = 6$ bar and $\Delta p = 0.5$ bar

Operating and environmental conditions		
Condensate drain	Fully automatic V	Fully automatic, electrically actuated E2/E3/E4
Operating pressure [bar]	2 ... 12	0.8 ... 16
Operating medium	Compressed air to ISO 8573-1:2010 [–:–:–]	
Ambient temperature [°C]	+5 ... +60	+1 ... +60
Temperature of medium [°C]	+5 ... +60	+1 ... +60
Storage temperature [°C]	+5 ... +60	+1 ... +60
Corrosion resistance class CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. 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.

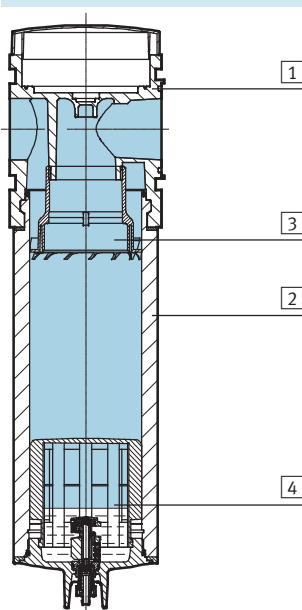
Water separators MS12-LWS, MS series

Technical data

Weight [g]	
Water separator	6,300
Water separator with fully automatic, electrically actuated condensate drain E2/E3/E4	7,000
Accessories	
Connecting plate AG...	1,300
Mounting bracket WP	700

Materials

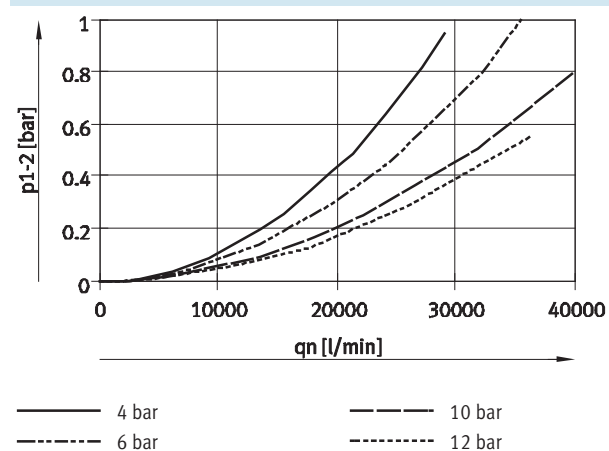
Sectional view



Water separator		
1	Housing	Die-cast aluminium
2	Bowl	Wrought aluminium alloy
	Inspection window	PA
3	Spin disc	POM
4	Separating plate	POM
–	Cover	PA reinforced
–	Connecting plate, module connector, mounting bracket	Die-cast aluminium
–	Seals	Nitrile rubber
Note on materials		RoHS-compliant (not with variant E2, E3 or E4)

Standard flow rate q_n as a function of differential pressure Δp_{1-2}

MS12-LWS-AGH/AGI, pneumatic connection G1½/G2



Water separators MS12-LWS, MS series

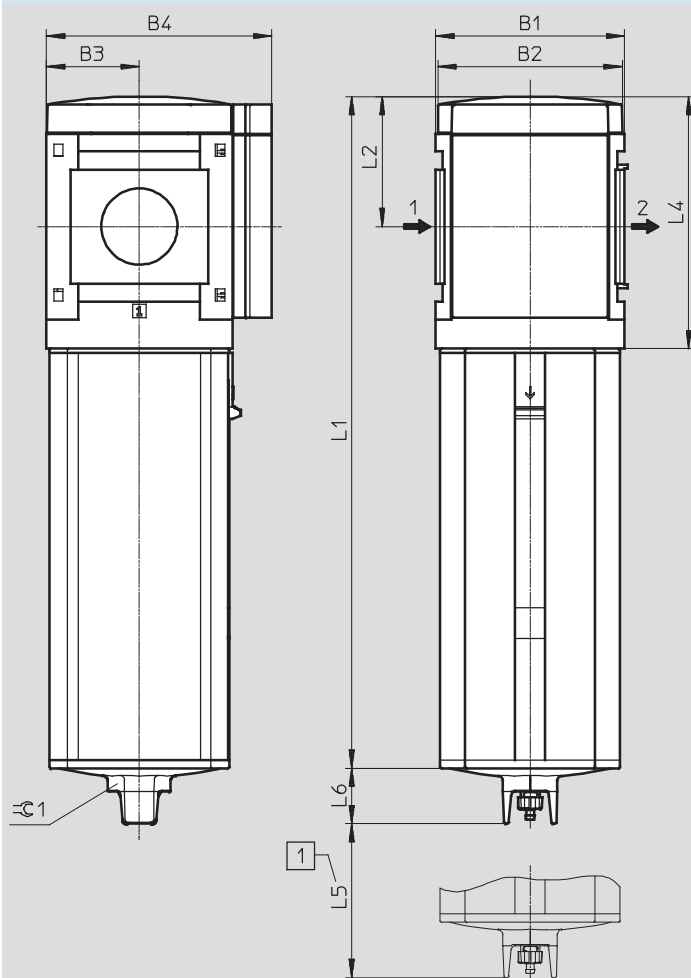
Technical data

FESTO

Dimensions – Basic design

Download CAD Data → www.festo.com/us/cad

Module without connecting thread, without connecting plate G, fully automatic condensate drain V



Note

Dimensions with
 – connecting plate → ms12-ag
 – mounting bracket → ms12-wp

1 Installation dimensions

→ Flow direction

Type	B1	B2	B3	B4	L1	L2	L4	L5	L6	∅ 1
MS12-LWS-G	124	122	61	148	441	85	165	60	36	36

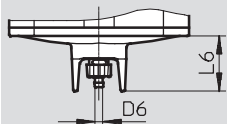
Water separators MS12-LWS, MS series

Technical data

Dimensions – Condensate drain

Download CAD Data → www.festo.com/us/cad

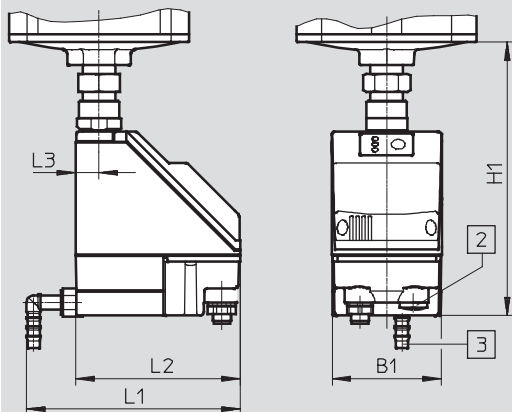
Fully automatic V



Barbed fitting for plastic tubing
PCN-4

Fully automatic, electrically actuated E2/E3/E4

Technical data → Internet: pwea



Condensate drain PWEA:

- 2 Electrical connection:
Screw terminal PG9
- 3 Connection 360° rotatable for
plastic tubing PUN-H-12x2

Type	B1	D6	H1	L1	L2	L3	L6
MS12-LWS-...-V	–	5	–	–	–	–	36
MS12-LWS-...-E2/E3/E4	72	–	179	140	108	15.4	–

Ordering data

Size	Condensate drain	Connection	Part No.	Type
MS12	Fully automatic	–	8005550	MS12-LWS-G-U-V

Water separators MS12-LWS, MS series

FESTO

Ordering data – Modular products

M Mandatory data							O Options	
Module No.	Series	Size	Function	Pneumatic connection	Bowl	Condensate drain	Type of mounting	Flow direction
569827	MS	12	LWS	AGF, AGG, AGH, AGI, G	U	V, E2, E3, E4	WP	Z
Ordering example								
569827	MS	12	- LWS	- G	- U	- V	-	-

Ordering table						Condition s	Code	Enter code
Grid dimension		[mm]	124					
M	Module No.	569827						
	Series	Standard					MS	MS
	Size	12					12	12
	Function	Water separator					-LWS	-LWS
	Pneumatic connection	Connecting plate G1					-AGF	
		Connecting plate G1 ¼					-AGG	
		Connecting plate G1 ½					-AGH	
		Connecting plate G2					-AGI	
		Module without connecting thread, without connecting plate				1	-G	
	Bowl	Metal bowl					-U	-U
	Condensate drain	Fully automatic (P1 max. 12 bar)					-V	
		External, fully automatic, electric					-E2	
		110 V AC, terminals (P1 max. 16 bar)					-E3	
		230 V AC, terminals (P1 max. 16 bar)					-E4	
	24 V DC, terminals (P1 max. 16 bar)							
O	Type of mounting	Mounting bracket				2	-WP	
	Flow direction	Flow direction from right to left					-Z	

- 1 **G** Not with mounting type WP.
2 **WP** Only with connecting plate AGF, AGG, AGH or AGI.

Transfer order code

569827 MS 12 - LWS - U - - - -

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors, controllers & drives



Pneumatics
Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



© Copyright 2008, Festo Corporation. While every effort is made to ensure that all dimensions and specifications are correct, Festo cannot guarantee that publications are completely free of any error, in particular typing or printing errors. Accordingly, Festo cannot be held responsible for the same. For Liability and Warranty conditions, refer to our "Terms and Conditions of Sale", available from your local Festo office. All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, electronic, mechanical, photocopying or otherwise, without the prior written permission of Festo. All technical data subject to change according to technical update.



Printed on recycled paper at New Horizon Graphic, Inc., FSC certified as an environmentally friendly printing plant.

Festo North America

Festo Regional Contact Center

5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Canada

USA Customers:

For ordering assistance,

Call: 1.800.99.FESTO (1.800.993.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: customer.service@us.festo.com

For technical support,

Call: 1.866.GO.FESTO (1.866.463.3786)

Fax: 1.800.96.FESTO (1.800.963.3786)

Email: product.support@us.festo.com

Canadian Customers:

Call: 1.877.GO.FESTO (1.877.463.3786)

Fax: 1.877.FX.FESTO (1.877.393.3786)

Email: festo.canada@ca.festo.com

USA Headquarters

Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788, USA
www.festo.com/us

USA Sales Offices

Appleton

North 922 Tower View Drive, Suite N
Greenville, WI 54942, USA

Boston

120 Presidential Way, Suite 330
Woburn, MA 01801, USA

Chicago

1441 East Business Center Drive
Mt. Prospect, IL 60056, USA

Dallas

1825 Lakeway Drive, Suite 600
Lewisville, TX 75057, USA

Detroit – Automotive Engineering Center

2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326, USA

New York

395 Moreland Road
Hauppauge, NY 11788, USA

Silicon Valley

4935 Southfront Road, Suite F
Livermore, CA 94550, USA

United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788

Phone: 1.631.435.0800; Fax: 1.631.435.8026;

Email: info@festo-usa.com

www.festo.com/us

Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4

Phone: 1.905.624.9000; Fax: 1.905.624.9001;

Email: festo.canada@ca.festo.com

www.festo.ca

Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquahuac,
54020 Tlalneapantla, Edo. de México

Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65;

Email: festo.mexico@mx.festo.com

www.festo.com/mx

Central USA

Festo Corporation
1441 East Business
Center Drive
Mt. Prospect, IL 60056, USA
Phone: 1.847.759.2600
Fax: 1.847.768.9480



Western USA

Festo Corporation
4935 Southfront Road,
Suite F
Livermore, CA 94550, USA
Phone: 1.925.371.1099
Fax: 1.925.245.1286



Festo Worldwide

Argentina Australia Austria Belarus Belgium Brazil Bulgaria Canada Chile China Colombia Croatia Czech Republic Denmark
Estonia Finland France Germany Great Britain Greece Hong Kong Hungary India Indonesia Iran Ireland Israel Italy Japan Latvia
Lithuania Malaysia Mexico Netherlands New Zealand Norway Peru Philippines Poland Romania Russia Serbia Singapore
Slovakia Slovenia South Africa South Korea Spain Sweden Switzerland Taiwan Thailand Turkey Ukraine United States Venezuela

www.festo.com