



★/☆ Festo core product range

Covers 80% of your automation tasks

Worldwide: Always in stock

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

★ Ready for dispatch from the Festo factory in 24 hours Held in stock in 13 service centres worldwide More than 2200 products

Ready for dispatch in 5 days maximum from stock
Assembled for you in 4 service centres worldwide
Up to 6 x 10¹² variants per product series





Туре		Size			Press [bar]	ure reg	ulation	range			Grade [µm]	of filtr	ation	
			Pneumatic connection in		0.05	0.05	0.1		0.1	0.5				
			housing	Connecting plate	0.7	2.5	4	7	12	16	0.01	1	5	40
Code				AG/AQ	D2	D4	D5	D6	D7	D8	Α	В	С	E
Service unit combi	nations			·										
MSB-FRC	Ø _n	4	G ¹ /8, G ¹ /4	G¹/8, G¹/4, G³/8	l -	_	_	•	•	-	-	_	-	-
		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	_	-	-	•	•	-	_	-		
		9	-	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
		12	_											
Service unit combi	nations (furtl	her variant	ts can be ordered u	sing the configurator → Intern	et: msb	4, msb	6 or m	sb9)						
MSB		4	G1/4	G ¹ /8, G ¹ /4, G ³ /8	-	-	-			-	-	-		
		6	G½	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	-	-	-			-	-	-		
		9	_											
		12	_											
Individual devices														
Filter regulators	<u> </u>	4	G1/8, G1/4	G ¹ / ₈ , G ¹ / ₄ , G ³ / ₈	-	-	•	•	•	-	-	-	-	-
MS-LFR		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	-	-					-	-	•	
		9	G3/4, G1	G½, G¾, G1, G1¼, G1½	-	-					-	-		
	W	12		G1, G11/4, G11/2, G2	-	-	-				-	-		
Filters		4	G½, G¼	G ¹ /8, G ¹ /4, G ³ /8	-	-	-	-	-	-	-	ı	-	
MS-LF		6	G1/4, G3/8, G1/2	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	-	-	-	-	-	-	-	-		
		9	G3/4, G1	G½, G¾, G1, G1¼, G1½	-	-	-	-	-	-	-	-		
	8	12	-	G1, G11/4, G11/2, G2	-	-	-	-	-	-	-	-		
Fine and micro		4	G½, G¼	G¹⁄8, G¹⁄4, G³⁄8	-	-	-	-	-	-			-	-
filters		6	G1/4, G3/8, G1/2	G1/4, G3/8, G1/2, G3/4	-	-	-	-	-	-			-	-
MS-LFM		9	G3/4, G1	G½, G¾, G1, G1¼, G1½	-	-	-	-	-	-			-	-
	¥	12	-	G1, G1¼, G1½, G2	-	-	-	-	-	-			-	-
Activated carbon		4	G1/8, G1/4	G¹/8, G¹/4, G³/8	-	-	-	-	-	-	-	-	-	-
filters		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	-	-	-	-	-	-	-	-	-	-
MS-LFX		9	G3/4, G1	G¹/2, G³/4, G1, G1¹/4, G1¹/2	-	-	-	-	-	-	-	-	-	-
		12	_	G1, G1¼, G1½, G2	-	-	-	-	-	-	-	-	-	-
			1											
Water separators		4	-	Tat/ ag/ at//		I	I	I	I	1				
MS-LWS		6	G½, G¾, G½	G¹/₄, G³/8, G¹/2, G³/₄	-	-	-	-	-	-	-	-	-	-
		9	G¾, G1	G½, G¾, G1, G1¼, G1½	-	-	-	-	-	-	-	-	-	-
	•	12	_	G1, G11/4, G11/2, G2	-	-	_	-	-	-	-	-	-	-



Туре	Size	Bowl gr	uard	Conde	nsate dr	ains		Pressu	re indic	ator			Securit	Security		ıs	→ 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	М	Н	٧	E	VS	AG	A8	A4	AD	AS	E11	S	Z	
Service unit comb	inations	<u>'</u>			<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>			<u>'</u>	ľ		<u> </u>	
MSB-FRC	4	•	_	•	-	•	-	-	•	-	-	_	•	-	-	•	msb4
	6				-		-	-		-	-	_		-	-		msb6
	9	-	ı	1	1	1	1	1	1	1	1	I	ı	ı	1	1	-
	12	_															-
	1	1															1
Service unit comb	inations																
MSB	4				-		-	-		-	-	-		-	-		8
	6				-		-	_		_	_	_		_	-		8
	9	_			-	1			-								_
	12	_															_
	12																
Individual devices	2																
Filter regulators	4					-	-								_		ms4-lfr
MS-LFR	6									-					_		ms6-lfr
MJ-LI K	9	_								_					_		ms9-lfr
	12	_			-					_		_			_		ms12-lfr
	12		-	-		-	-	-	-		-	_	-	•	_	-	111312 111
Filters	4			•	-		_	_	_	_	_	_	T -	_	_		ms4-lf
MS-LF	6			_				_	_	_	_	_	_	_	_		ms6-lf
	9	_						_	_	_	_	_	_	_	_		ms9-lf
	12	_			_			_	_	_	_	_	_	_	_		ms12-lf
Fine and micro	4			-	-	_	-	_	_	_	_	_	_	_	_		ms4-lfm
filters	6			-		_		_	_	_	_	_	_	_	_		ms6-lfm
MS-LFM	9	-		-				_	_	_	_	_	_	_	_		ms9-lfm
y =	12	_		-	_			_	_	_	_	_	_	_	_		ms12-lfm
Activated carbon	4			_	_	_	Ε-	_	_	_	_	_	_	_	_		ms4-lfx
filters	6			_	_	_	_	_	_	_	_	_	_	_	_		ms6-lfx
MS-LFX	9	_		_	_	_	_	_	_	_	_	_	_	_	_		ms9-lfx
y =====	12	_		_	_	_	_	_	_	_	_	_	_	_	_		ms12-lfx
	1	1		1		1	1		L	1			1	1			.11312 (17
Water separators	4	_															_
MS-LWS	6	_		_	_	•		_	_	_	_	_	_	_	_		ms6-lws
	9	_		_	_			_	_	_	_	_	_	_	_		ms9-lws
	12	_		_	_				_	_	_	_			_		ms12-lws
	12							-	_				-	-	_		111217-IM2



Туре		Size			Pressi [bar]	ure regi	ulation	range			Suppl	y volta:	ge	
			Pneumatic connection in		0.05	0.05	0.1	0.3	0.1	0.5	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
			housing	Connecting plate	0.7	2.5	4	7	12	 16	24 \ pat	24 \ to II	110 pat	230 pat
Code				AG/AQ	D2	D4	D5	D6	D7	D8	V24	V24P	V110	V230
Individual devices				,		-			٠,					1250
Pressure	<i>6</i> 9	4	G½, G¼	G½, G¼, G¾	_	_	-			_	_	_	_	_
regulators	A	6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G½, G¾, G½, G¾	_	_					_	_	_	_
MS-LR	90	9	G ³ / ₄ , G1	G½, G¾, G1, G1¼, G1½	_	_					_	_	_	_
		12	-	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	_	_	_				_	_	_	_
Pressure	Ø.	4	G1/4	G¹/8, G¹/4, G³/8	_	_				_	_	_	_	_
regulators		6	G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	_	_			_		_	_	_	_
MS-LRB	-01 0	9	-	-,1,0,0,0,2,0,7	1		_				1	I		-
2.1.2		12	_											
Precision	Ø.	4	_											
pressure	Ĭ.	6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G½, G3/8, G½, G3/4	•			_		_	_	_	_	_
regulators		9	-	-, ., -, -, -, -, -, -,										
MS-LRP	4	12	_											
Precision	Ø	4	_											
pressure		6	G½	G1/4, G3/8, G1/2, G3/4	•			_		-	-	-	-	_
regulators		9	_	-,,,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,	1						1			
MS-LRPB	***	12	_											
Electrical	(x)	4	-											
pressure		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G1/4, G3/8, G1/2, G3/4	-	_					-	-	-	_
regulators		9	_		1						1			
MS-LRE		12	-											
			1	T					1			1	1	
Lubricators		4	G¹/8, G¹/4	G½, G¼, G¾	-	-	-	-	-	-	-	-	-	-
MS-LOE		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	-	-	-	-	-	-	-	-	-	-
		9	G3/4, G1	G½, G¾, G1, G1¼, G1½	-	-	-	-	-	-	-	-	-	-
		12	_	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	_	-	-	-	-	-	-	-	-	-
On officializa-			C16 C1/	C1/2 C1/2 C2/2										
On-off valves,		4	G½, G¼	G½, G¼, G¾	-	-	-	-	-	-	-	_	-	-
manually		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G½, G¾, G½, G¾	-	-	-	-	-	-	-	-	-	-
actuated MS-EM(1)	~	9	G3/4, G1	G½, G¾, G1, G1¼, G1½	-	-	-	-	-	-	-	-	-	-
On-off valves,			- C1/6 C1/4	G1, G1¼, G1½, G2	-	-	-	_	-	_	_	-	-	_
electrically		6	G½, G¼ G¼, G¾, G½	G½, G¼, G¾, G¾ G¼, G¾, G½, G¾	-	_	-	_	-	-	-	-		
actuated		9	G ³ / ₄ , G ³ / ₈ , G ⁴ / ₂	G ¹ / ₂ , G ³ / ₄ , G1, G1 ¹ / ₄ , G1 ¹ / ₂	_	_	-	_	_	_		-		
MS-EE	***************************************	12	U74, U1	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	_	_	-	_	-	_				
Soft-start valves,	<i>E</i> •	4	G ¹ /8, G ¹ /4	G1/8, G1/4, G3/8	_	_	_	_	_	_	_	-	_	_
pneumatically		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	_	_	_	_	_	_	_	_	_	_
actuated		9	-	5 /+, 0 /6, 0 /2, 0 ⁻ /4										
MS-DL		12	-	G1, G11/4, G11/2, G2	_	_	_	_	_	_	_	_	_	_
Soft-start valves,	<u> </u>	4	G ¹ /8, G ¹ /4	G¹/8, G¹/4, G³/8	_	_	_	_	_	_	•	_	•	_
electrically		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	_	_	_	_	_	_		_		
actuated		9	-	5 /+, 0 /6, 0 /2, 0 ⁻ /4									_	
MS-DE	100	12	-	G1, G11/4, G11/2, G2	_	_	_	_	_	_		•	•	
52		17		01, 01 /4, 0172, 02	_	_		_	_	_	_	_	_	-



Туре	Size	Bowl guar	d	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	S												
Pressure	4	-	-								-		ms4-lr
regulators	6	-	-			-					-		ms6-lr
MS-LR	9	-	-			-					-		ms9-lr
	12	-	-			-		-			-		ms12-lr
Pressure	4	-	-								-		ms4-lrb
regulators	6	-	-			-					-		ms6-lrb
MS-LRB	9	-	-										-
	12	-											-
Precision	4	-											-
pressure	6	-	-		-						-		ms6-lrp
regulators	9	-											-
MS-LRP	12	-											-
Precision	4	-											-
pressure	6	-	-		-						-		ms6-lrpb
regulators	9	-											-
MS-LRPB	12	-											-
Electrical	4	-											-
pressure	6	-	-			-		-	-	-	-		ms6-lre
regulators	9	-											-
MS-LRE	12	-											-
		,											T
Lubricators	4			-	-	-	-	-	-	-	-		ms4-loe
MS-LOE	6			-	-	-	-	-	-	-	-	-	ms6-loe
	9	-		-	-	-	-	-	-	-	-	-	ms9-loe
	12	-		-	-	-	-	-	-	-	-		ms12-loe
0 "		1	1	1 -			_	T _	Ţ	1	T _	_	
On-off valves,	4	-	-					-	_	-	-		ms4-em1
manually	6	-	-	-	-	-	-		-	-	-	-	ms6-em1
actuated	9	-	-	-	-	-	-	-	-	-		-	ms9-em
MS-EM(1)	12	-	-	-	-	-	-	-	-	-		-	ms12-em
On-off valves,	4	-	-	-	-	•	-	-	-	-		-	ms4-ee
electrically	6	-	-	-	-	-	-	-	-	-		-	ms6-ee
actuated	9	-	-	-	-	-	-		-	-		-	ms9-ee
MS-EE	12	-	-	-	-	-	-	-	-	-		-	ms12-ee
Soft-start valves,	4	-	-	-	-	•		-	-	-	-	-	ms4-dl
pneumatically	6	-	-			-			-	_	-		ms6-dl
actuated	9	-	1	1 -			_	I	1	1	1	_	-
MS-DL	12	-	-	-	-	-	-	_	_	-	_	-	ms12-dl
Soft-start valves,	4	-	-	-	-	•	-	-	-	-	-	-	ms4-de
electrically	6	-	-			-			-	-	-		ms6-de
actuated	9	-	1	1	1	1	ı	T.	Ţ	1	Ţ	ı	-
MS-DE	12	-	-			-		-	-	-	-		ms12-de



Туре		Size		Performanœ Level Supply voltage								
			Pneumatic connection in housing	Connecting plate	Category 1, 1-channel	Category 3, 2-channel	Category 4, 2-channel with self- monitoring	24 V DC, Sub-D, 9-pin	24 V DC, connection pattern to EN 175301	24 V DC, connection M12 to IEC 61076-2-101	110/230 V AC, connection pattern to EN 175301	22 31.6 V DC, connection M12, AS-i Safety at Work
Code				AG/AQ	С	D	E	10V24	10V24/ V24	10V24P	V110/ V230	ASIS
Individual devices	5											
Soft start and	\$	4	-									
exhaust valves		6	G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄		-	-	-			-	-
MS-SV-C		9	G3/4, G1	G½, G¾, G1, G1¼, G1½	-	-	-	-		•		-
		12	-			1						
Soft start and	(%)	4	-									
exhaust valves		6	G ¹ / ₂	G1/4, G3/8, G1/2, G3/4	-		-	-			-	-
MS-SV-D		9	_		1	1	II				-	
		12	_									
Soft start and		4	_									
exhaust valves		6	G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	-	_			_	-	_	
MS-SV-E		9	_	-,,,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,								
		12	_									
Mambranaair	-	,	C1/- C1/	C1/- C1/- C2/-								
Membrane air		4	G½, G¼	G½, G¼, G¾	-	-	-	-	-	-	-	-
dryers		6	G½, G3/8, G½	G1/4, G3/8, G1/2, G3/4	-	-	-	-	_	_	-	-
MS-LDM1		9										
		12	-									
Branching		4	G½, G¼	G½, G¼, G¾	_	_	_	_	-	-	_	_
modules		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	_	_	_	_	_	_	_	_
MS-FRM	**	9	G ³ / ₄ , G1	G½, G¾, G1, G1¼, G1½	_	_	_	_	_	_	_	_
		12	-	G1, G1¼, G1½, G2	_	_	_	_	_	_	_	_
Distributor	ίδ.	4	G1/4	-	_	_	_	_	_	_	_	_
blocks		6	G ¹ / ₂	_	_	_	_	_	_	_	_	_
MS-FRM-FRZ		9	-			1		1	1	I .	1	1
		12	_									
Flow sensors		4	_									
SFAM		4		C1/a								
STAIVI		6	G½	G1/2	-	-	-	-	-	-	-	-
		9	_	G1, G1½	-	_	-	-	_	-	_	_
		12	-									



Туре	Size	Bowl guar	d	Pressure i	ndicator				Switch ou	tput	Options		→ Page/ Internet - ms6-sv ms9-sv - ms6-sv ms6-sv	
		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	Silenær	Flow direction from right to left		
Code		R	U	VS	AG	A8	A4	AD	2SA	2SV	S	Z/R	_	
Individual device	:S													
Soft start and	4	_											-	
exhaust valves	6	-	_			-	-		-	-			ms6-sv	
MS-SV-C	9	-	-			_			-	-			ms9-sv	
	12	_						I					-	
Soft start and	4	-											-	
exhaust valves	6	-	-			-			-	-			ms6-sv	
MS-SV-D	9	-				•							-	
	12	-											-	
Soft start and	4	-											-	
exhaust valves	6	-	-			-			-	-		-	ms6-sv	
MS-SV-E	9	-											-	
	12	-											-	
	1.	1			ı	1		I	1	1	1			
Membrane air	4	-	-	-	_	-	-	-	-	-	-	-	ms4-ldm1	
dryers MS-LDM1	6	-		-	_	_	-	-	_	_	-		ms6-ldm1	
M2-LDM1	9	_											_	
	12	_											_	
Branching	4	_	_	-		•	•		_	_	_	-	ms4-frm	
modules	6	_	_			_			_	_	_		ms6-frm	
MS-FRM	9	-	_			_			-	-	-	-	ms9-frm	
	12	-	_		_	-	-	-	-	-	-	_	ms12-frm	
Distributor	4	-	-	-	-	-	-	-	-	-	-	•	ms4-frm	
blocks	6	-	-	-	-	-	-	-	-	-	-	•	ms6-frm	
MS-FRM-FRZ	9	-				1			1		1		-	
	12	-												
		Т											1	
Flow sensors	4	_		_	Т	Г	1	T	Г	1		1	-	
SFAM	6	-	-	-	-	-	-	-	-	-	-	-	sfam-62	
	9	-	-	-	-	-	-	-			-		sfam-90	
	12	-											-	

Service unit combinations MSB4/MSB6, MS series Product range overview

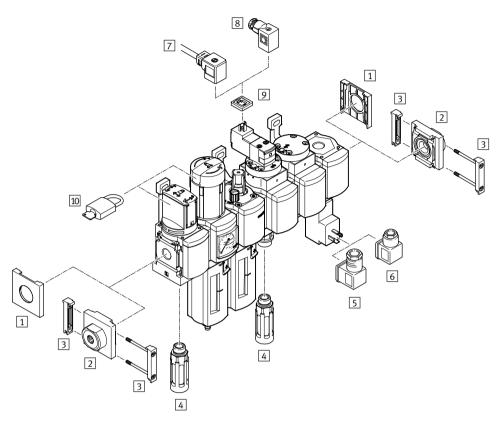


Combinations		Combination 1	Combination 2	Combination 3
Comprising:				
Manually operated on-off valve	EM1	•	•	-
Filter regulator with pressure gauge, lockable	LFR	•	•	•
Lubricator	LOE	•	-	-
Solenoid actuated on-off valve	EE	-	-	•
Solenoid actuated on-off valve, with pressure sensor	EE	-	-	-
Pneumatically actuated soft-start valve	DL	-	-	•
Branching module with pressure switch	FRM	•	-	-
Branching module with pressure sensor	FRM	-	-	-
Mounting bracket	WP	•	•	•
Type codes → Page		10	10	10
Technical data → Page		11	14	18

Combinations		Combination 4		Combination 5	Combination 6	Combination 7
Comprising:						
Manually operated on-off valve	EM1	•	•	•	•	•
Filter regulator with pressure gauge, lockable	LFR	•	•	•	•	•
Lubricator	LOE	-	-	-		-
Solenoid actuated on-off valve	EE	-	-	•	-	-
Solenoid actuated on-off valve, with pressure sensor	EE	-	-	-	-	•
Pneumatically actuated soft-start valve	DL	-	-	•	-	-
Branching module with pressure switch	FRM	•	-	•	-	-
Branching module with pressure sensor	FRM	-	•	-	-	-
Mounting bracket	WP	•	•	•	•	•
Type codes → Page		10	10	10	10	10
Technical data → Page		21	21	26	29	32

Service unit combinations MSB4/MSB6, MS series Peripherals overview





- Note

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

Range of accessories

→ Peripherals pages of the individual devices

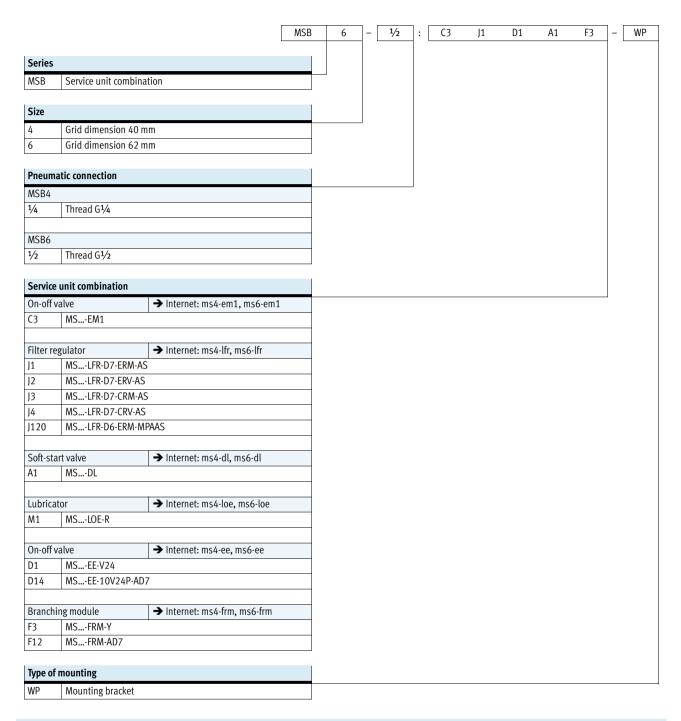
Mour	nting attachments and accessories	→ Page/Internet
1	Cover cap	ms4-end,
	MS4/6-END	ms6-end
2	Connecting plate-SET	ms4-ag,
	MS4/6-AG	ms6-ag
3	Module connector	ms4-mv,
	MS4/6-MV	ms6-mv
4	Silencer	36
	U	
5	Angled socket	36
	PEV-1/4-WD-LED	
6	Plug socket	36
	MSSD-C-4P	
7	Plug socket with cable	36
	KMEB	
8	Plug socket	36
	MSSD-EB	
9	Illuminating seal	36
	MEB-LD	
10	Padlock	36
	LRVS-D	
-	Mounting bracket	ms4-wp,
	MS4/6-WP/WPB/WPE/WPM	ms6-wp

- New MSB4/6-...J120

Service unit combinations MSB4/MSB6, MS series

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Type codes



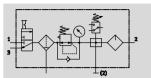
Further variants can be ordered using the modular system → www.festo.com

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



Technical data - Combination 1

Function With condensate drain manual rotary



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



Flow rate 950 l/min



Temperature range −10 ... +60 °C



Pressure regulation range

1 ... 12 bar



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- 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
Pneumatic connection 1, 2, 3	G1/4
Regulating function	Output pressure constant, with primary pressure compensation, with return flow function, with secondary venting
Type of mounting	Via accessories
Assembly position	Vertical ±5°
Grade of filtration [µm]	40
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [7:4:4] (grade of filtration 40 µm)
Bowl guard	Plastic bowl guard
Condensate drain	Manual rotary
Actuator lock	Rotary knob with detent, lockable with accessories
Pressure regulation range [bar]	112
Pressure indicator	With pressure gauge

 $[\]parallel$ Note: This product conforms to ISO 1179-1 and to ISO 228-1

Standard nominal flow rate qnN [l/min]							
Size		MSB4					
Grade of filtration	40 µm	950					

Service unit combinations MSB4/MSB6, MS series Technical data – Combination 1



Operating and environmen	tal condition	s
Condensate drain		Manual rotary
Size		MSB4
Operating pressure	[bar]	1.5 14
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
		Inert gases
Note on operating/pilot med	lium	Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature	[°C]	-10 +60
Temperature of medium	[°C]	-10 +60
Storage temperature	[°C]	-10 +60
Corrosion resistance	CRC ¹⁾	2

Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Weights [g]	
Size	MSB4
Service unit combination	1,700
Mounting bracket	40



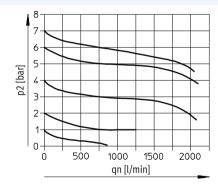
Note

Materials → Technical data of the individual devices

Standard flow rate qn as a function of output pressure p2

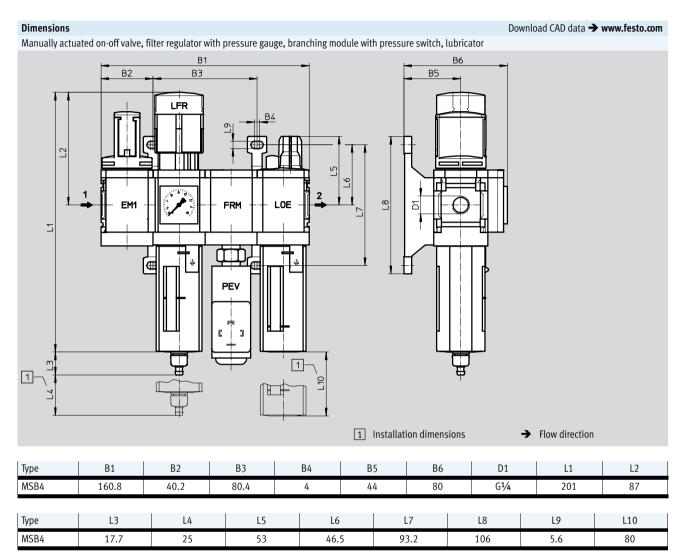
Pressure regulation range 1 ... 12 bar Grade of filtration 40 μm MSB4-1/4

Primary pressure p1 = 10 bar



Service unit combinations MSB4/MSB6, MS series Technical data – Combination 1





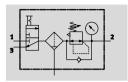
^{· ♦ ·} Note: This product conforms to ISO 1179-1 and to ISO 228-1

Ordering data							
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре		
Pressure regulation range 1 12 bar, pressure gauge with outer scale in bar and inner scale in psi							
MSB4	G1/4	Manual rotary	40	542295	MSB4-1/4:C3J1F3M1-WP		

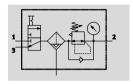
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Technical data – Combination 2

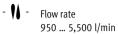
Function With condensate drain manual rotary

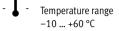


With condensate drain fully automatic



- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR with pressure gauge
- Mounting bracket MS...-WP





Pressure regulation range

0.5 ... 12 bar





- 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	G½	
Regulating function	Output pressure constant, with primary pressure compensat	tion, with return flow function, with secondary venting	
Type of mounting	Via accessories		
Assembly position	Vertical ±5°		
Grade of filtration [µm]	5		
	40		
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [6:4:4] (grade of filtration 5 µm)		
	Compressed air in accordance with ISO 8573-1:2010 [7:4:4] (grade of filtration 40 μm)	
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 7		
	0.5 12		
Pressure indicator With pressure gauge			

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

Standard nominal flow rate	qnN [l/min]					
Condensate drain Manual rotary		Manual rotary		Fully automatic		
Size		MSB4	MSB6	MSB4	MSB6	
Pressure regulation range 0.5 7 bar						
Grade of filtration	40 µm	1,150	5,500	-	-	
Pressure regulation range 0.	5 12 bar					
Grade of filtration	5 μm	950	4,800	950	4,800	
	40 μm	1,700	5,100	1,000	5,100	

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Technical data - Combination 2

Operating and environmental conditions Condensate drain		Manual rotans					
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 ac	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]				
		Inert gases					
Note on operating/pilot me	dium	Operation with lubric	cated medium possible (in wh	ich case lubricated operation w	ubricated 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 CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

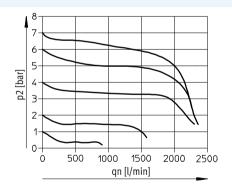
Weights [g]		
Size	MSB4	MSB6
Service unit combination	1,300	1,100
Mounting bracket	40	76



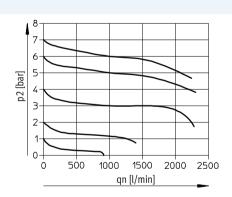
Standard flow rate qn as a function of output pressure p2

Pressure regulation range 0.5 ... 12 bar $\,$ Grade of filtration 5 μm MSB4-1/4

Primary pressure p1 = 10 bar

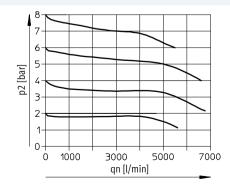


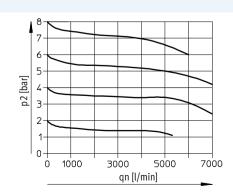




MSB6-1/2

Primary pressure p1 = 10 bar

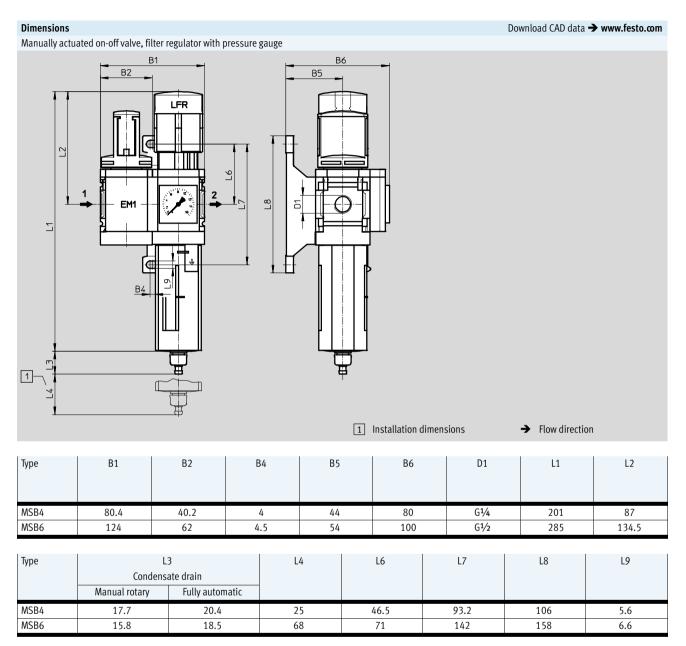




-O- New MSB4/6-...J120

Service unit combinations MSB4/MSB6, MS series Technical data – Combination 2





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



Service unit combinations MSB4/MSB6, MS series Technical data – Combination 2

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★ Core product range

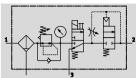
Ordering data							
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре		
Pressure regulation range 0.5 12 bar, pressure gauge with outer scale in bar and inner scale in psi							
MSB4	G1/4	Manual rotary	40	★ 8025354	MSB4-1/4:C3:J1-WP		
MSB6	G1/2	Manual rotary	40	★ 8025355	MSB6-1/2:C3:J1-WP		

Ordering data	a					
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре	
Pressure regu	ılation range 0.5 7 ba	r, pressure gauge with outer sc	ale in MPa			
MSB4	G1/4	Manual rotary	40	8042668	MSB4-1/4:C3:J120-WP	.0.
MSB6	G ¹ / ₂	Manual rotary	40	8042672	MSB6-1/2:C3:J120-WP	.0.
Pressure regu MSB4	ulation range 0.5 12 b	ar, pressure gauge with outer s Manual rotary	scale in bar and inner scale in psi 5	542304	MSB4-1/4:C3J3-WP	
9			5	542304	MSB4-1/4:C3I3-WP	
		Fully automatic	40	542298	MSB4-1/4:C3J2-WP	
			5	542310	MSB4-1/4:C3J4-WP	
MSB6	G ¹ / ₂	Manual rotary	5	542280	MSB6-1/2:C3J3-WP	
		Fully automatic	40	542274	MSB6-1/2:C3J2-WP	
			5	542286	MSB6-1/2:C3J4-WP	

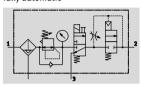


Technical data – Combination 3

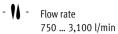
Function With condensate drain manual rotary

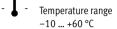


With condensate drain fully automatic



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





Pressure regulation range
4 ... 12 bar

- www.festo.com



- 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	G½	
Regulating function	Output pressure constant, with primary pressure compensation, with return flow function, with secondary venti		
Type of mounting	Via accessories		
Assembly position	Vertical ±5°		
Grade of filtration [µm]	40		
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [7:4:-] (grade of filtration 40 µm)		
Bowl guard	Plastic bowl guard		
Condensate drain	Manual rotary		
	-	Fully automatic	
Actuator lock	Rotary knob with detent, lockable with accessories		
Pressure regulation range [bar]	412		
Pressure indicator	With pressure gauge		
Coil characteristics	24 V DC: 1.5 W	24 V DC: 1.5 W	

 $[\]mid$ 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 40	0 μm	750	3,100	



Technical data - Combination 3

Operating and environmen	ital condition	S		
Condensate drain		Manual rotary		Fully automatic
Size		MSB4	MSB6	MSB6
Operating pressure	[bar]	4.5 14	4.5 18	4.5 12
Operating medium		Compressed air in accordance with ISO 8573-1:2010		Compressed air in accordance with ISO 8573-1:2010
		[-:4:-]		[7:4:-]
		Inert gases		
Note on operating/pilot me	dium	Operation with lubricated medium possible (in which case lubricated operation will always be required)		
Ambient temperature	[°C]	-10 +60		+5 +60
Temperature of medium	[°C]	-10 +60		+5 +60
Storage temperature	[°C]	-10 +60		-10 +60
Corrosion resistance	CRC ¹⁾	2		

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

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

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 qn as a function of output pressure p2

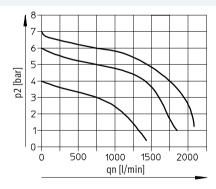
Pressure regulation range

Grade of filtration 40 μm

4 ... 12 bar

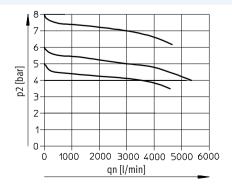
MSB4-1/4

Primary pressure p1 = 10 bar



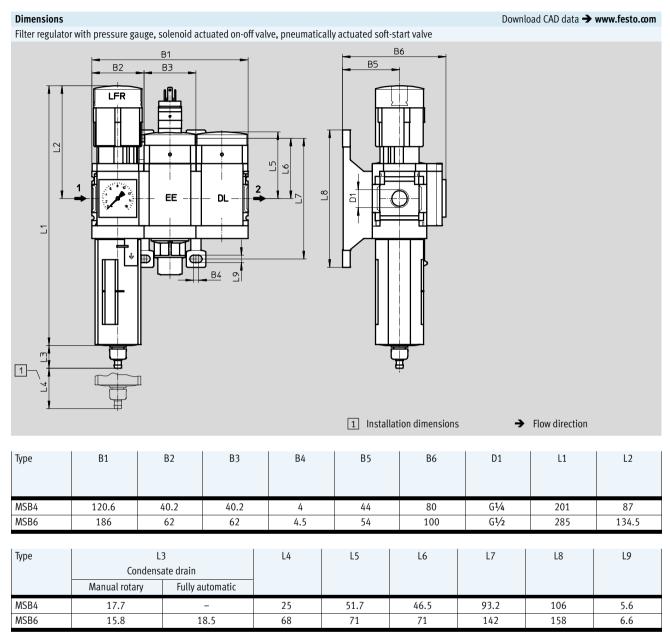
MSB6-1/2

Primary pressure p1 = 10 bar



Service unit combinations MSB4/MSB6, MS series Technical data – Combination 3





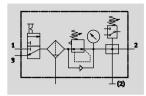
Note: This product conforms to ISO 1179-1 and to ISO 228-1

Ordering data									
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре				
Pressure regulati	Pressure regulation range 4 12 bar, pressure gauge with outer scale in bar and inner scale in psi								
MSB4	G1/4	Manual rotary	40	531101	MSB4-1/4:J1D1A1-WP				
MSB6	G ¹ / ₂	Manual rotary	40	530222	MSB6-1/2:J1D1A1-WP				
		Fully automatic	40	530224	MSB6-1/2:J2D1A1-WP				

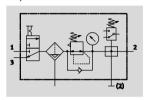
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Technical data - Combination 4

Function
With condensate drain,
manual rotary



With condensate drain, fully automatic



- Manually operated on-off valve MS...-EM1
- Filter regulator MS...-LFR with pressure gauge



Flow rate 1,300 ... 5,300 l/min



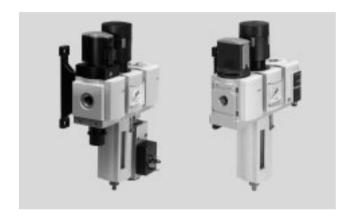
Temperature range −10 ... +60 °C



Pressure regulation range 0.5 ... 12 bar



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

- Branching module MS...-FRM-Y with pressure switch or MS...-FRM-AD7 with pressure sensor for displaying output pressure via operational status indicator
- Mounting bracket MS...-WP

General technical data							
Size	MSB4		MSB6	MSB6			
Branching module with	Pressure switch	Pressure switch Pressure sensor		Pressure sensor			
Pneumatic connection 1, 2, 3	G1/4	G1/4 G1/2					
Regulator function	Output pressure const	ant, with primary pressure com	pensation, with return flow, witl	n secondary venting			
Type of mounting	Via accessories						
Mounting position	Vertical ±5°	Vertical ±5°					
Grade of filtration [µm]	40	40					
Air purity class at the output	Compressed air according to ISO 8573-1:2010 [7:4:4] (grade of filtration 40 µm)						
Bowl guard	Plastic bowl guard						
Condensate drain	Manual rotary	Manual rotary	Manual rotary	Manual rotary			
	Fully automatic	-	Fully automatic	-			
Actuation security	Rotary knob with deter	nt, can be locked using accesso	ries				
Pressure regulation range [bar]		0.5 7	-	0.5 7			
	0.5 12	0.5 10	0.5 12	0.5 10			
Pressure indication	Via pressure gauge for	Via pressure gauge for displaying output pressure					

 $[\]cdot$ | \cdot | Note: This product conforms to ISO 1179-1 and to ISO 228-1

Standard nominal flow	rate qnN [l/min]				
Size Branching module with		MSB4		MSB6	
		Pressure switch	Pressure sensor	Pressure switch	Pressure sensor
Pressure regulation rang	ge 0.5 7 bar				
Grade of filtration	40 μm	-	1,750	-	5,300
			·	·	·
Pressure regulation rang	ge 0.5 10 bar				
Grade of filtration	40 μm	-	1,600	-	4,500
					<u>.</u>
Pressure regulation rang	ge 0.5 12 bar				
Grade of filtration	40 μm	1,300	-	4,500	-

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Technical data - Combination 4

Operating and environment	al condition	S						
Condensate drain		Manual rotary				Fully automatic		
Size		MSB4 MSB6		MSB4	MSB6			
Branching module with		Pressure	Pressure	Pressure	Pressure	Pressure switch	Pressure switch	
		switch	sensor	switch	sensor			
Operating pressure	[bar]	0.8 14 0.8 18 2 12				2 12		
Operating medium		Compressed air according to ISO 8573-1:2010 [7:4:4]						
		Inert gases						
Note on operating/		Lubricated operation possible (in which case lubricated operation will always be required)						
pilot medium								
Ambient temperature	[°C]	-10 +60	0 +50	-10 +60	0 +50	+5 +60		
Temperature of medium	[°C]	-10 +60	0 +50	-10 +60	0 +50	+5 +60		
Storage temperature	[°C]	-10 +60				-10 +60		
Corrosion resistance class	CRC ¹⁾	2				•		

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Weight [g]							
Size	MSB4	MSB6					
Service unit combination	1,500	2,000					
Mounting bracket	40	76					



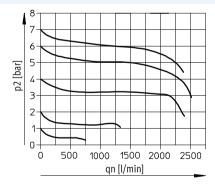
Note

Materials → Technical data of the individual devices

Standard flow rate qn as a function of output pressure p2

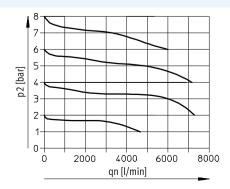
Pressure regulation range 0.5 ... 12 bar $\,$ Grade of filtration 40 μm MSB4-1/4

Primary pressure p1 = 10 bar



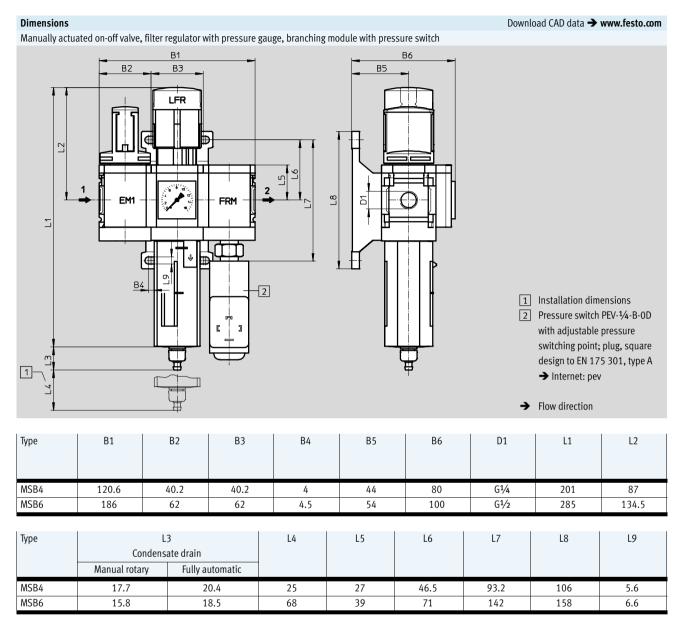
MSB6-1/2

Primary pressure p1 = 10 bar



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Technical data - Combination 4



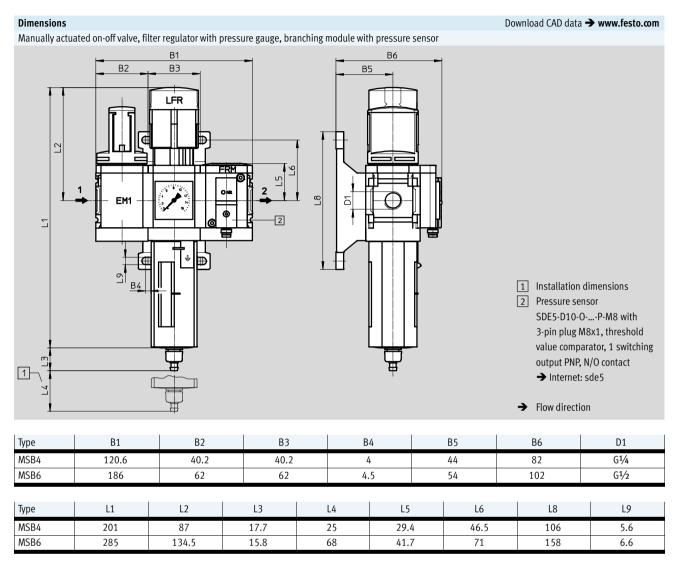
 $^{\|\}cdot\|$ Note: This product conforms to ISO 1179-1 and to ISO 228-1

New MSB4/6-...J120

Service unit combinations MSB4/MSB6, MS series

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Technical data - Combination 4



 $[\]cdot\, |\!| \,\cdot\, \,$ Note: This product conforms to ISO 1179-1 and to ISO 228-1



Service unit combinations MSB4/MSB6, MS series Technical data – Combination 4

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★ Core product range

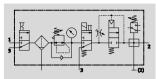
Ordering data									
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре				
Pressure regulation range 0.5 10 bar, pressure gauge with outer scale in bar and inner scale in psi, branching module with pressure sensor									
MSB4	G1/4	Manual rotary	40	★ 8025356	MSB4-1/4:C3:J1:F12-WP				
MSB6	G1/2	Manual rotary	40	★ 8025357	MSB6-1/2:C3:J1:F12-WP				

Ordering dat	a					
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре	
Pressure regi	ulation range 0.5 7 bar	, pressure gauge with outer so	ale in MPa, branching module with pres	sure sensor		
MSB4	G1/4	Manual rotary	40	8042667	MSB4-1/4:C3:J120:F12-WP	.0.
MSB6	G1/2	Manual rotary	40	8042671	MSB6-1/2:C3:J120:F12-WP	.0.
Pressure regi	ulation range 0.5 12 ba	ar, pressure gauge with outer s	cale in bar and inner scale in psi, branc	hing module with	pressure switch	
		.,				
MSB4	G ¹ / ₄	Manual rotary	40	542294	MSB4-1/4:C3J1F3-WP	
		,				
		Fully automatic	40	542300	MSB4-1/4:C3J2F3-WP	
MSB6	G½	Fully automatic Manual rotary	40 40	542300 542270		

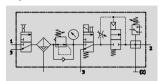


Technical data - Combination 5

Function With condensate drain manual rotary



With condensate drain fully automatic



- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7 with pressure gauge
- On-off valve MS...-EE-V24 solenoid actuated

Actuator lock

Pressure indicator

Coil characteristics

Pressure regulation range

- 11 -

Flow rate 750 ... 3,100 l/min



Temperature range −10 ... +60 °C



Pressure regulation range

4 ... 12 bar



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• Soft-start valve MS...-DL

pneumatically actuated

• Mounting bracket MS...-WP

• Branching module MS...-FRM-Y

with pressure switch without dis-



- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation
 range.
- Gradual pressure build-up prevents sudden, unpredictable movements

24 V DC: 1.5 W

- 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	G ¹ / ₄ G ¹ / ₂					
Regulating function	Output pressure constant, with primary pressure compensation, with return flow function, with secondary venting					
Type of mounting	Via accessories					
Assembly position	Vertical ±5°					
Grade of filtration [µm]	-	5				
	40					
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [6:4:4] (grade of filtration 5 µm)					
	Compressed air in accordance with ISO 8573-1:2010 [7:4:4] (grade of filtration 40 µm)					
Bowl guard	Plastic bowl guard					
Condensate drain	Manual rotary					
	Fully automatic					

Rotary knob with detent, lockable with accessories

[bar]

4 ... 12

With pressure gauge

24 V DC: 1.5 W

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

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



Technical data – Combination 5

Condensate drain		Manual rotary		Fully automatic				
Size		MSB4	MSB6	MSB4	MSB6			
Operating pressure	[bar]	4.5 14	4.5 18	4.5 12	4.5 12			
Operating medium		Compressed air in a	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]					
		Inert gases						
Note on operating/pilot med	dium	Operation with lubricated medium possible (in which case lubricated operation will always be required)						
Ambient temperature	[°C]	-10 +60		+5 +60	+5 +60			
Temperature of medium	[°C]	-10 +60		+5 +60	+5 +60			
Storage temperature	[°C]	-10 +60		-10 +60				
Corrosion resistance	CRC ¹⁾	2		•				

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

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Weights [g]		
Size	MSB4	MSB6
Service unit combination	2,200	3,500
Mounting bracket	40	76



Standard flow rate qn as a function of output pressure p2

Pressure regulation range

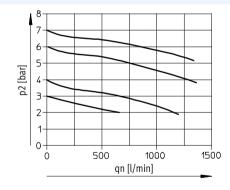
Grade of filtration 5 µm

4 ... 12 bar

MSB4-1/4

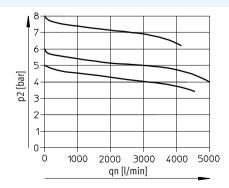
Primary pressure p1 = 10 bar

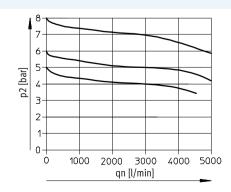
Grade of filtration 40 µm



MSB6-1/2

Primary pressure p1 = 10 bar





Service unit combinations MSB4/MSB6, MS series Technical data – Combination 5



Download CAD data → www.festo.com

→ Flow direction

Dimensions

Manually actuated on-off valve, filter regulator with pressure gauge, solenoid actuated on-off valve, pneumatically actuated soft-start valve, branching module with pressure switch В6 ВЗ B2 В2 B5 LFR 7 L8 ΕE FRM Į (∰

Туре	B1	B2	B3	B4	B5	B6	D1	L1	L2
MSB4	201	40.2	80.4	4	44	80	G1⁄4	201	87
MSB6	310	62	124	4.5	54	100	G ¹ / ₂	285	134.5

1 Installation dimensions

Туре	L3		L4	L5	L6	L7	L8	L9
	Condensate drain							
	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

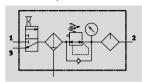
Note: This product conforms to ISO 1179-1 and to ISO 228-1

Ordering data	Ordering data							
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре			
Pressure regulation	range 4 12 bar, pre	ssure gauge with outer scale in ba	r and inner scale in psi					
MSB4	G1/4	Manual rotary	40	542293	MSB4-1/4:C3J1D1A1F3-WP			
		Fully automatic	40	542299	MSB4-1/4:C3J2D1A1F3-WP			
MSB6	G ¹ / ₂	Manual rotary	40	542269	MSB6-1/2:C3J1D1A1F3-WP			
			5	542281	MSB6-1/2:C3J3D1A1F3-WP			
		Fully automatic	40	542275	MSB6-1/2:C3J2D1A1F3-WP			
			5	542287	MSB6-1/2:C3J4D1A1F3-WP			

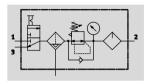


Technical data – Combination 6

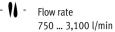
Function
With condensate drain
manual rotary

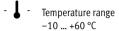


With condensate drain fully automatic



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







Pressure regulation range

1 ... 12 bar



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- 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	G ¹ / ₄	G ¹ / ₂	
Regulating function	Output pressure constant, with primary pressure compensation, with return flow function, with secondary venting		
Type of mounting	Via accessories		
Assembly position	Vertical ±5°		
Grade of filtration [µm]	40		
Air purity class at the output	Compressed air in accordance with ISO 8573-1:2010 [7:4:4] (grade of filtration 40 µm)		
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		

 $[\]cdot$ | \cdot 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	40 μm	750	3,100			



Technical data – Combination 6

Operating and environmental conditions						
Condensate drain		Manual rotary		Fully automatic		
Size		MSB4	MSB6	MSB6		
Operating pressure	[bar]	1.5 14	1.5 18	2 12		
Operating medium		Compressed air in accordance	with ISO 8573-1:2010 [7:4:4]	ĺ		
		Inert gases				
Note on operating/pilot med	lium	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 CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

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

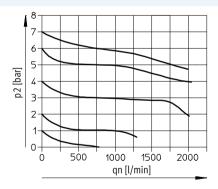
Pressure regulation range 1 ... 12 bar

Grade of filtration 40 µm

Grade of filtration 5 μm

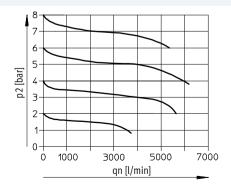
MSB4-1/4

Primary pressure p1 = 10 bar



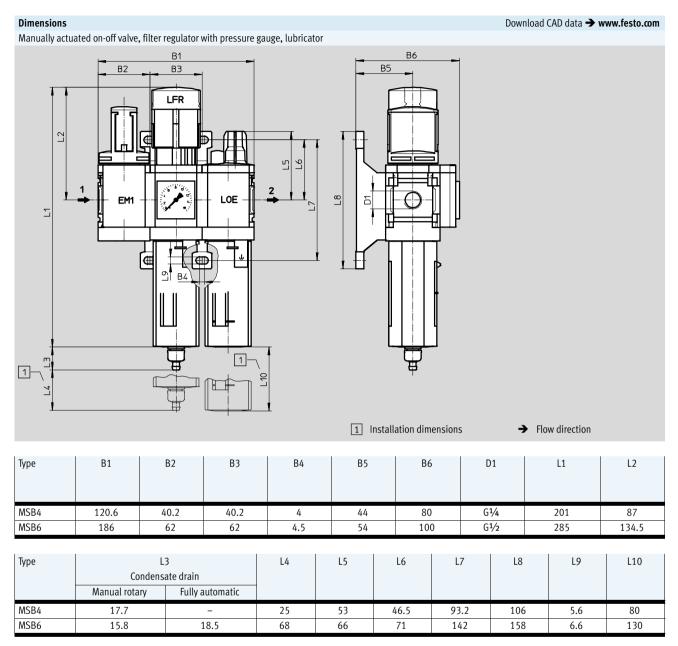
MSB6-1/2

Primary pressure p1 = 10 bar





Technical data – Combination 6



^{· ♦ ·} Note: This product conforms to ISO 1179-1 and to ISO 228-1

Ordering data						
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре	
Pressure regulation	Pressure regulation range 1 12 bar, pressure gauge with outer scale in bar and inner scale in psi					
MSB4	G1/4	Manual rotary	40	542296	MSB4-1/4:C3J1M1-WP	
MSB6	G ¹ / ₂	Manual rotary	40	542272	MSB6-1/2:C3J1M1-WP	
		Fully automatic	40	542278	MSB6-1/2:C3J2M1-WP	

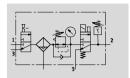
- New MSB4/6-...J120

Service unit combinations MSB4/MSB6, MS series

FESTO

Technical data – Combination 7

Function
With condensate drain,
manual rotary



- Manually operated on-off valve MS...-EM1
- Filter regulator MS...-LFR with pressure gauge
- Solenoid actuated on-off valve MS...-EE-10V24P-AD7, with pressure sensor for displaying output pressure via operational status indicator
- Mounting bracket MS...-WP



Flow rate 1,400 ... 4,400 l/min





Pressure regulation range 0.5 ... 10 bar



- For filtered and unlubricated compressed air supply
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- When the supply pressure is closed, quick venting ensures rapid pressure reduction
- Electrical pressure monitoring with adjustable switching pressure

General technical data				
Size	MSB4	MSB6		
Pneumatic connection 1, 2, 3	G ¹ / ₄	G ¹ / ₂		
Regulator function	Output pressure constant, with primary pressure compensati	on, with return flow, with secondary venting		
Type of mounting	Via accessories			
Mounting position	Vertical ±5°			
Grade of filtration [µm]	40			
Air purity class at the output	Compressed air according to ISO 8573-1:2010 [7:4:4]			
Bowl guard	Plastic bowl guard			
Condensate drain	Manual rotary			
Actuation security	Rotary knob with detent, can be locked using accessories			
Pressure regulation range [bar]	0.5 7			
	0.5 10			
Pressure indication	Via pressure sensor for displaying output pressure via operational status indicator and electrical output			
	Via pressure gauge for displaying output pressure			

^{· ♦ ·} Note: This product conforms to ISO 1179-1 and to ISO 228-1

Electrical data – On-off valve MSEE-10V24P-AD7					
Coil characteristics	24 V DC: 1.8 W; permissible voltage fluctuations –15%/+10%				
Electrical connection	M12x1 to IEC 61076-2-101				
Protection class for solenoid coil	IP65				
Duty cycle [%]	100				

Service unit combinations MSB4/MSB6, MS series Technical data – Combination 7

FESTO

Standard nominal flow rate qnN [l/min]						
Size		MSB4	MSB6			
Pressure regulation range	Pressure regulation range 0.5 7 bar					
Grade of filtration	40 μm	1,600	4,400			
Pressure regulation range 0.5 10 bar						
Grade of filtration	40 µm	1,400	4,000			

Operating and environmental conditions						
Condensate drain		Manual rotary				
Size		MSB4	MSB6			
Operating pressure	[bar]	0.8 14	0.8 18			
Operating medium		Compressed air according to ISO 8573-1:2010 [7:4:4]				
		Inert gases				
Note on operating/pilot med	ium	Lubricated operation possible (in which case lubricated oper	ration will always be required)			
Ambient temperature	[°C]	0 +50				
Temperature of medium	[°C]	0 +50				
Storage temperature	[°C]	-10 +60				
Corrosion resistance class	CRC ¹⁾	2				

¹⁾ Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmo $sphere\ typical\ for\ industrial\ applications.$

Weight [g]		
Size	MSB4	MSB6
Service unit combination	1,600	2,000
Mounting bracket	40	76

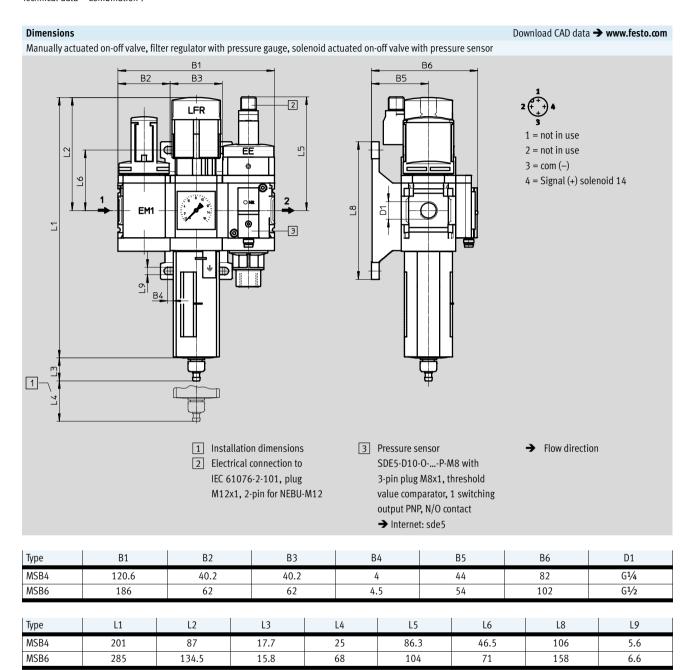


- New MSB4/6-...J120

Service unit combinations MSB4/MSB6, MS series

FESTO

Technical data – Combination 7



^{· ♦ ·} Note: This product conforms to ISO 1179-1 and to ISO 228-1



Service unit combinations MSB4/MSB6, MS series Technical data – Combination 7

FESTO

★ Core product range

Ordering data							
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре		
Pressure regulation range 0.5 10 bar, pressure gauge with outer scale in bar and inner scale in psi							
MSB4	G1/4	Manual rotary	40	★ 8025358	MSB4-1/4:C3:J1:D14-WP		
MSB6	G1/2	Manual rotary	40	★ 8025359	MSB6-1/2:C3:J1:D14-WP		

Ordering data								
Size	Connection	Condensate drain	Grade of filtration [µm]	Part No.	Туре			
Pressure regulation	Pressure regulation range 0.5 7 bar, pressure gauge with outer scale in MPa							
MSB4	G1/4	Manual rotary	40	8042666	MSB4-1/4:C3:J120:D14-WP	.0.		
MSB6	G ¹ / ₂	Manual rotary	40	8042670	MSB6-1/2:C3:J120:D14-WP	.0.		

Service unit combinations MSB, MS seriesAccessories



Ordering data - S	ilenær U			Technical data → Internet: u
	Description	Pneumatic connection	Part No.	Туре
	for MS4-EM1/EE	G1/4	★ 6842	U-1⁄4-B
	for MS6-EM1/EE	G1/2	★ 6844	U-1/2-B

Ordering data – A	ingled socket PEV	Technical data → Internet: pev				
	Description	Operating voltage range	Electrical	Switching status	Part No.	Туре
			connection	display		
	for PEV-1/4OD	15 30 V DC	4-pin	Yellow LED	164274	PEV-1/4-WD-LED-24
		≤ 230 V AC	4-pin	Yellow LED	164275	PEV-1/4-WD-LED-230
		≤ 180 V DC				

Ordering data – Pl	lug socket MSSD		Technical data → Internet: mssd			
	Description	Operating voltage range	Electrical connection	Type of mounting cable connection	Part No.	Туре
	for PEV-1/4OD	≤ 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 displace-	192745	MSSD-EB-S-M14
				ment technology		

Ordering data – F	Plug socket with cable I		Technical data → Internet: kmeb				
	Description	Operating voltage range	Electrical connection	Switching status display	Cable length [m]	Part No.	Туре
//	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: me					
	Description	Operating voltage range	Part No.	Туре	
	for plug socket with cable KMEB and plug	12 24 V DC	151717	MEB-LD-12-24DC	
	socket MSSD-EB	230 V DC/AC ±10%	151718	MEB-LD-230AC	
	SOCKET MISSID ED	230 V DC/AC ±10 /0	171/10	MILD-LD-2 JUAC	

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

Festo core product range

★ Ready for dispatch from the Festo factory in 24 hours

☆ Ready for dispatch in 5 days maximum from stock

Service unit combinations MSB, MS seriesAccessories



Ordering data -	Connecting cable NEBU-M8		Technical data → Internet: nebu		
	Electrical connection	Number of wires	Cable length [m]	Part No.	Туре
	M8x1, straight socket	3	2.5	★ 541333	NEBU-M8G3-K-2.5-LE3
STATE OF THE PARTY			5	★ 541334	NEBU-M8G3-K-5-LE3
	M8x1, angled socket	3	2.5	★ 541338	NEBU-M8W3-K-2.5-LE3
SW X			5	★ 541341	NEBU-M8W3-K-5-LE3

Ordering data – 0	Connecting cable NEBU-M12	Technical data → Internet: nebu			
	Electrical connection	Number of wires	Cable length [m]	Part No.	Туре
N. M. S.	M12x1, straight socket	4	2.5	★ 550326 ★ 541328	NEBU-M12G5-K-2.5-LE4 NEBU-M12G5-K-5-LE4
	M12x1, angled socket	4	2.5	550325	NEBU-M12W5-K-2.5-LE4
			5	541329	NEBU-M12W5-K-5-LE4