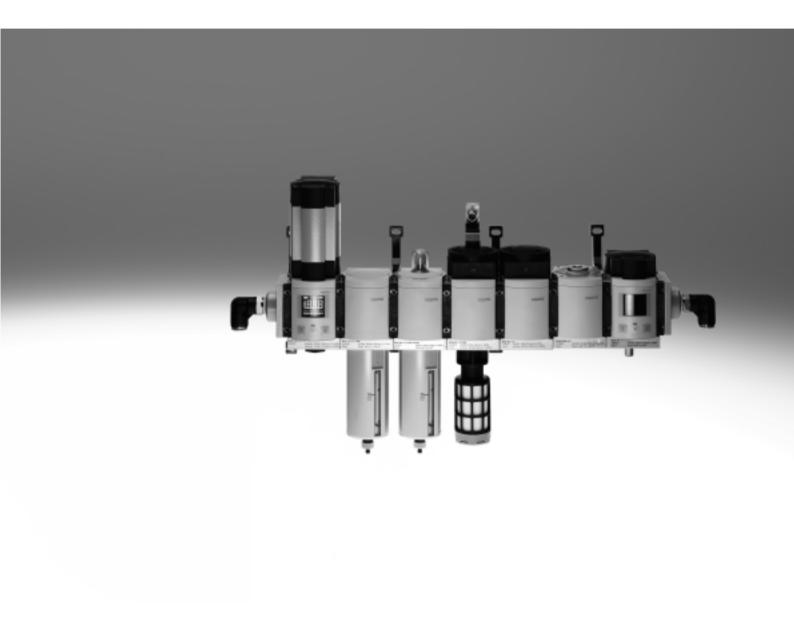
FESTO





Туре		Size			Press [bar]	ure reg	ulation	range			Grade	of filtr	ation	
			Pneumatic connection in		0.05	0.05	0.1	0.3	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	Pa	4	G1/8, G1/4	G¹⁄8, G¹⁄4, G³⁄8	-	-	-		-	-	-	-	-	-
		6	G1/4, G3/8, G1/2	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	-	-	-			-	-	-		
		9	_											
		12	-			-		-						
	nations (furth	er variant		sing the configurator → Intern	et: msb	4, msb	6 or m	sb9)	ı		ı	ı		
MSB		4	G ¹ / ₄	G½, G¼, G¾	-	-	-			-	-	-	-	-
		6	G½	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	-	-	-			-	-	-		
		9	_											
		12	-											
Individual devices														
Filter regulators		4	G½, G¼	G½, G¼, G¾	-	-				-	-	-		
MS-LFR		6	G1/4, G3/8, G1/2	G¹/₄, G³/8, G¹/2, G³/₄	-	-					-	-	-	
		9	G3/4, G1	G½, G¾, G1, G1¼, G1½	-	-					-	-		
		12	-	G1, G1¼, G1½, G2	-	-	-				-	-		
				1-11-11-11		1	ı							
Filters		4	G1/8, G1/4	G½, G¼, G¾	-	-	-	-	-	-	-	-		
MS-LF		6	G1/4, G3/8, G1/2	G¹/4, G³/8, G¹/2, G³/4	-	-	-	-	-	-	-	-	-	
	Ψ	9	G3/4, G1	G½, G¾, G1, G1¼, G1½	-	-	-	-	-	-	-	-		
F. I .		12	-	G1, G1¼, G1½, G2	-	-	-	-	-	-	_	_	-	
Fine and micro filters		4	G ¹ / ₈ , G ¹ / ₄ G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G½, G¼, G¾	-	-	-	-	-	-			-	-
MS-LFM		6		G½, G¾, G½, G¾	-	-	-	-	-	-			-	-
INI2-FLINI		9	G3/4, G1	G½, G¾, G1, G1¼, G1½	-	-	-	-	-	-	-	-	-	-
Activated carbon		12	- G ¹ / ₈ , G ¹ / ₄	G1, G1¼, G1½, G2 G½, G¼, G¾, G3/8	_	-	-	_	-	-	_	_	-	_
filters					_		-	_		_				
MS-LFX		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ G ³ / ₄ , G1	G½, G¾, G½, G¾ G½, G¾, G1, G1¼, G1½		-			-	_	-	-	-	-
MO-LI V		9	-	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	-	-	-	-	-	_	-	_	_	-
		12		01, 0174, 0172, 02		_			_					
Water separators		4	_											
MS-LWS		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G½, G3/8, G½, G3/4	_	_	_	I -	_			_		_
IIIJ-LVVJ		9	G ³ / ₄ , G ³ / ₈ , G ³ / ₂	G½, G¾, G1, G1¼, G1½	_	_	_	_	_	Ε-	_	_	-	_
		12			-					<u> </u>				
		12	-	G1, G11/4, G11/2, G2	-	-	_	-	-	-	-	-	-	-

2



Туре	Size	Bowl g	uard	Conde	nsate dr	ains		Pressu	re indic	ator			Securit	у	Option	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>				"		·				"	l .
MSB-FRC	4		_		_	•	-	-	-	_	_	_		-	_		msb4
	6				-		-	-		-	-	-		-	-		msb6
	9	_	l	1	1	1	1	1	l .	1	1	I	1	1	1	1	-
	12	_															_
Service unit comb	inations																
MSB	4		-	•	-	•	-	-	•	-	-	-	•	-	-	•	msb4
	6				_		_	_		_	_	_		_	_		msb6
	9	_															_
	12	_															_
	12																
Individual devices	•																
Filter regulators	4						l -								_		ms4-lfr
MS-LFR	6				_				_	_					_		ms6-lfr
MS LIK	9	_								_					_		ms9-lfr
	12	_			_					_		_			_		ms12-lfr
	12		-	-		-	-	-	-		-	_	•	•		•	111312 (11
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
J LIM	12	_			_			_	_	_	_	_	_	_	_		ms12-lfm
Activated carbon	4			_	_	-	-	_	_	_	_	_	_	_	_		ms4-lfx
					_				_		_		_	_			ms6-lfx
filters MS-LFX	6	_		-		_	_	_	_	-	_	_	_	_	-		ms9-lfx
MJ-LI A	9	_		_	_				_	_			_		-		
	12	_		_	_	-	-	-	_	_	-	-	_	-			ms12-lfx
Mator co	,																
Water separators		-	_	1		_	_			1						_	- mac hua
MS-LWS	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-		ms6-lws
	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-		ms9-lws
	12	-		-	-			-	-	-	-	-	-	-	-		ms12-lws



Туре		Size			Press [bar]	ure reg	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
Code			housing	Connecting plate AG/AQ	0.7 D2	2.5 D4	4 D5	7 D6	12 D7	16 D8	V24	ν ≠ V24P		V230
Individual devices				710/712	, J.	51	23	50	,	50			****	1230
Pressure	(2)	4	G1/8, G1/4	G¹/8, G¹/4, G³/8	l -	-			-	-	l –	-	-	_
regulators		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	_	_	-				_	-	_	_
MS-LR	10	9	G3/4, G1	G½, G¾, G1, G1¼, G1½	-	-		-	-		_	-	-	-
		12	-	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	-	-	-	-	-		_	-	-	-
Pressure	(2)	4	G1/4	G ¹ / ₈ , G ¹ / ₄ , G ³ / ₈	-	-	•	-	-	-	-	-	-	-
regulators		6	G ¹ / ₂	G1/4, G3/8, G1/2, G3/4	-	-	-	•	-		-	-	-	-
MS-LRB	410	9	_	-							1			-
		12	_											
Precision	B	4	-											
pressure		6	G1/4, G3/8, G1/2	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄				-		-	-	-	-	-
regulators		9	-		•			•						
MS-LRP	•	12	-											
Precision	P	4	-											
pressure		6	G½	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄			-	-		-	-	-	-	-
regulators		9	_											
MS-LRPB		12	-											
Electrical		4	-			,							,	
pressure		6	G1/4, G3/8, G1/2	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂ , G ³ / ₄	-	-					-	-	-	-
regulators		9	-											
MS-LRE		12	_											
Lubricators	8		G¹/8, G¹/4	G½, G¼, G¾	T _	_	_	_	_	_	l _	_	_	_
MS-LOE		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G½, G¾, G½, G¾	_	_	_	_	_	_	_	_	_	_
WIS-FOF		9	G ³ / ₄ , G ₇ , G ₇ , G ₇ 2	G½, G¾, G1, G1¼, G1½	_	_	_		-		_	-	_	
		12	-	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	_	_	_	_	-			-	_	
		12		01, 01 /4, 01 /2, 02										
On-off valves,	62	4	G½, G¼	G¹/8, G¹/4, G³/8	T -	_	_	_	_	_	_	_	_	_
manually		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G¹/4, G³/8, G¹/2, G³/4	_	_	-	-	-	-	_	-	_	_
actuated		9	G ³ / ₄ , G1	G½, G¾, G1, G1¼, G1½	-	_	-	-	-	-	_	-	_	_
MS-EM(1)		12	-	G1, G1 ¹ / ₄ , G1 ¹ / ₂ , G2	-	_	-	-	-	-	_	-	_	_
On-off valves,	(4	G ¹ /8, G ¹ /4	G ¹ / ₈ , G ¹ / ₄ , G ³ / 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	G3/4, G1	G ¹ / ₂ , G ³ / ₄ , G1, G1 ¹ / ₄ , G1 ¹ / ₂	-	-	-	-	-	-	•			
MS-EE	=	12	_	G1, G1¼, G1½, G2	-	_	-	-	-	-		-		
Soft-start valves,	©	4	G ¹ /8, G ¹ /4	G ¹ /8, G ¹ /4, G ³ /8	-	-	-	-	-	-	-	-	-	-
pneumatically		6	G ¹ / ₄ , G ³ / ₈ , G ¹ / ₂	G1/4, G3/8, G1/2, G3/4	-	-	-	-	-	-	-	-	-	-
actuated	-	9												
MS-DL		12		G1, G1¼, G1½, G2	-	-	-	-	-	-	-	-	-	_
Soft-start valves,	(%)	4	G1/8, G1/4	G¹/8, G¹/4, G³/8	-	-	-	-	-	-	-	-		
electrically		6	G1/4, G3/8, G1/2	G¹⁄4, G³⁄8, G¹⁄2, G³⁄4	-	-	-	-	-	-		-		
actuated		9	-	-		•					•		•	•
MS-DE		12	-	G1, G1¼, G1½, G2	-	-	-	-	-	-		•		



Туре	Size	Bowl guar	d	Pressure i	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 device													
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	-	I				_						-
pressure	6	-	-		-						-		ms6-lrp
regulators	9	-											-
MS-LRP	12	-											-
Precision	4	-		_		_	_		_	_		_	- -
pressure	6	-	-		-						-		ms6-lrpb
regulators MS-LRPB	9	-											-
Electrical		-											_
pressure	6	_	_			_			_	_	_		ms6-lre
regulators	9		_		_	_	-	-	_	_	_	_	-
MS-LRE	12	-											_
MO ERE	12												
Lubricators	4			_	_	_	_	_	_	_	_		ms4-loe
MS-LOE	6	_		_	_	_	_	_	_	_	_		ms6-loe
	9	_		_	_	_	_	_	_	_	_		ms9-loe
	12	_	-	_	_	_	_	_	_	_	_		ms12-loe
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	-											-
MS-DL	12	-	-			-		-	-	-	-		ms12-dl
Soft-start valves,	4	-	-			•			-	-	-	-	ms4-de
electrically	6	-	-			-			-	-	-	-	ms6-de
actuated	9	-											-
MS-DE	12	-	-			-		-	-	-	-		ms12-de



Туре		Size			Perforr	manœ Le	evel	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		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	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
		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	Silenœr	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		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	-											-
Mambranaair	1									I		_	ms4-ldm1
Membrane air	4	-	-	-	_	-	-	-	-	-	-	-	ms4-ldm1 ms6-ldm1
dryers MS-LDM1	6	-		-	-	-	-	-	-	-	-		- IIIS6-IUIIII
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	1	1	1	1	1	1	-
	12	-											-
Flow sensors	4	-											-
SFAM	6	-	-	-	-	-	-	-			-		sfam-62
	9	-	-	-	-	-	-	-			-		sfam-90
	12	-											-



Key feature

Configurable service unit combinations MSB

Overview



- 3 sizes:
 - MSB4 grid dimension 40 mm MSB6 – grid dimension 62 mm MSB9 – grid dimension 90 mm
- Threaded connections in the product housing or with connecting plates
- Type of mounting and flow direction can be optionally selected
- Can be configured in accordance with the ATEX directive for explosive atmospheres

Configurator

The configurator enables step-by-step configuration of complex service unit combinations. It is divided into a basic configuration and the individual service unit configurations.

The technical parameters for the entire service unit combination are defined

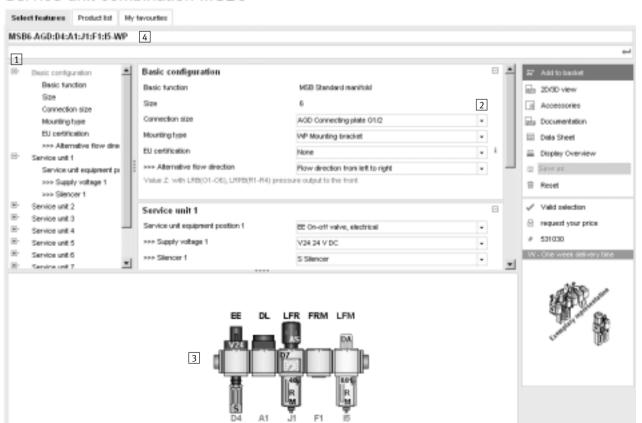
using the features of the basic configuration. All service unit configurations define the service unit along with the general technical conditions.

You can navigate through your configuration using the structure 1. All of the features available for selection are

stored in drop-down lists 2. Missing or incomplete information is indicated by an exclamation mark. Features shown against a grey background cannot be selected in the selected configuration → table "Conditions and exclusion of features".

If you select a feature shown against a grey background, red font will indicate that the configuration is incorrect. A dynamic graphic ③ and the order code ④ (→ type codes) are created in accordance with your current configuration.

Service unit combination MSB6



Key features



Information

General

The adjacent columns and the product range overview provide a brief overview of the available service units of a specific size → 2.

You can find the breakdown of the service unit short code transferred in the order code for the size MSB4/MSB6 from page 12 onwards and for the size MSB9 from page 31 onwards.

You can find detailed information and all of the technical data in the documentation for the corresponding service unit. To do so, enter the code for

the service unit (e.g. MS6-EE) in the

search window in the product cata-

logue and select Documentation.

- 🖣 - Note

Individual devices with selected features are available for the configurable service unit combinations

Overview lists

Further feature options can be selected via the configurable individual device.

1) Not available in all markets.

ISO: MSB4 (part no. 531029) NPT: MSB4N (part no. 532306)¹⁾

- Filter regulator MS4-LFR
- Pressure regulator MS4-LR
- Pressure regulator for manifold assembly MS4-LRB
- Filter MS4-LF
- Fine and micro filter MS4-LFM
- Activated carbon filter MS4-LFX
- Lubricator MS4-LOE
- Manual on-off valve MS4-EM1
- Electric on-off valve MS4-EE
- Pneumatic soft-start valve MS4-DL
- Electric soft-start valve MS4-DE
 Membrane air dryer MS4-LDM1
- Branching module MS4-FRM

ISO: MSB6 (part no. 531030) NPT: MSB6N (part no. 532307)¹⁾

- Filter regulator MS6-LFR
- Pressure regulator MS6-LR
- Pressure regulator for manifold assembly MS6-LRB
- Precision pressure regulator MS6-LRP
- Precision pressure regulator for manifold assembly MS6-LRPB
- Electric pressure regulator MS6-LRE
- Filter MS6-LF
- Fine and micro filter MS6-LFM
- · Activated carbon filter MS6-LFX
- Water separator MS6-LWS
- Lubricator MS6-LOE
- Manual on-off valve MS6-EM1
- Electric on-off valve MS6-EE
- Pneumatic soft-start valve MS6-DL
- Electric soft-start valve MS6-DE
- Soft-start and exhaust valve MS6-SV
- Membrane air dryer MS6-LDM1
- Branching module MS6-FRM
- Flow sensor SFAM-62

ISO + NPT:

MSB9 (part no. 552938)

- Filter regulator MS9-LFR
- Pressure regulator MS9-LR
- Filter MS9-LF
- Fine and micro filter MS9-LFM
- · Activated carbon filter MS9-LFX
- Water separator MS9-LWS
- Lubricator MS9-LOE
- Manual on-off valve MS9-EM
- Electric on-off valve MS9-EE
- Soft-start and exhaust valve MS9-SV
- Branching module MS9-FRM
- Flow sensor SFAM-90

Notes on individual service units and their features

MS-LFR and MS-LF:

• Grade of filtration with feature E (40 µm) or C (5 µm)

WC LEW

- Grade of filtration with feature B
 (1 μm) or A (0.01 μm)
- Filter contamination sensor with feature DA is an optical differential pressure indicator with red-green range
- Filter contamination sensor with feature DP is an electric filter contamination indicator with switching output

MS-LRB/LRPB:

• Pressure output is to the rear, the pressure output is to the front if the feature Z (alternative flow direction) is selected

MS-EE and MS-DE:

- The supply voltage with feature 10V24 is only permissible up to an operating voltage of max. 10 bar
- With the supply voltages with feature V24/V110/V230 the solenoid head has a non-detenting/detenting manual override, with feature 10V24 just a non-detenting manual override

MS-LDM1:

 Flow cartridge with feature P05, P10 only for MSB4; with feature P20, P30, P40 only for MSB6



Key features

Conditions and exclusions of features

Note

If a service unit combination is configured with ISO thread then the individual devices also have ISO thread (e.g. the outlets of the branching module MS-FRM), individual devices with integrated MS pressure gauge (e.g. the pressure regulator MS-LR) have a display scale in [bar].

If you configure a service unit combination with NPT thread, the other pneumatic connections are equipped with NPT threads and integrated MS pressure gauges with the display unit [psi].

In addition to the conditions and exclusions mentioned here, you can also obtain information by selecting the information button beside some of the selection lists in the configurator.

General rules

- Selection of at least 2 to at most 10 service units
- Lubricators MS-LOE are not permitted in the flow direction upstream of a filter MS-LFR/LFM/LF/LFX, water separator MS-LWS or membrane air dryer MS-LDM1
- A micro filter MS-LFM must be installed upstream of an activated carbon filter MS-LFX in the flow direction
- Mounting bracket for large wall gap WPB must be chosen if the combination contains the electric pressure regulator MS-LRE, the soft-start and exhaust valve MS-SV-E or the lockable regulator MS-LRB without angled outlet block
- Regulators MS-LFR/LR/LRP/LRE are only permissible in the flow direction with the same or decreasing pressure regulation range
- Filters MS-LFR/LF/LFM/LFX are only permissible in the flow direction with an increasing grade of filtration

Service unit-specific rules

MS-LFM:

 Only manual condensate drain permissible with MS4-LFM with plastic bowl

MS-DL:

 No filter MS-LFR/LF/LFM with fully automatic condensate drain downstream of MS4-DL

SFAM:

- Connection size of the service unit combination must be at least G½ for SFAM-62 and at least G¾ for SFAM-90
- An SFAM cannot be installed directly downstream of a regulator MS-LFR/LR; a branching module MS-FRM must be positioned between them
- SFAM-90 only in flow direction from left to right

MS-SV-D/E:

 Must be the last service unit in the flow direction



Key features

ATEX certification

A configured service unit combination consisting of mechanical service units can be used in zones 1 and 2 of explosive gas atmospheres and in zones 21 and 22 of explosive dust atmospheres. The following service units are approved and can be selected using the code EX4 in the order section "EU certification":

- Filter regulator MS4/6/9-LFR
- Pressure regulator MS4/6/9-LR
- Pressure regulator for manifold assembly MS4/6-LRB
- Precision pressure regulator MS6-LRP
- Precision pressure regulator for manifold assembly MS6-LRPB

- Filter MS4/6/9-LF
- Fine and micro filter MS4/6/9-LFM
- Activated carbon filter MS4/6/9-LFX
- Water separator MS6/9-LWS
- Lubricator MS4/6-LOE
- Manual on-off valve MS4/6-EM1, MS9-EM
- Pneumatic soft-start valve MS4/6-DL
- Membrane air dryer MS4/6-LDM1
- Branching module MS4/6/9-FRM

A configured service unit combination consisting of mechanical and electric service units can be used in zone 2 of explosive gas atmospheres and in zone 22 of explosive dust atmospheres. In this case, the code EX2 must be selected in the order section "EU certification". The following electric service units are approved in addition to the mechanical service units:

- Electric on-off valve MS4/6/9-EE
- Electric soft-start valve MS4/6-DE
- Flow sensor SFAM

- Supplied with special accessories, e.g. mounting brackets, module connectors, connecting plates with earthing screws
- Only connecting plates with G thread possible
- Lubricated operation not permissible
- On-off valve MS-EE or soft-start valve MS-DE only with 24 V supply voltage

EU certification	EX2	EX4	
MSB4/6			
ATEX category for gas	II 3G	II 2G	
Explosion ignition protection type for	Ex nA IIC T4 X Gc	c T6 X	
gas			
ATEX category for dust	II 3D	II 2D	
Explosion ignition protection type for	Ex tc IIIC T105°C X Dc IP65	c 60 °C X	
dust			
Explosion-proof temperature rating	-10 °C ≤ Ta ≤ +60 °C ¹⁾		
	+5 °C ≤ Ta ≤ +60 °C ²⁾		
	+2 °C ≤ Ta ≤ +50 °C ³⁾		
CE marking	To EU Explosion Protection Directive (ATEX)		
(see declaration of conformity)	To EU EMC Directive	-	
	To EU Low Voltage Directive	-	
Mone			
MSB9	Taras	Turne.	
ATEX category for gas	II 3G	II 2G	
Explosion ignition protection type for	Ex nA IIC T5 X Gc	c T6 X	
gas			
ATEX category for dust	II 3D	II 2D	
Explosion ignition protection type for	Ex tc IIIB T95°C X Dc IP54	c 60 °C X	
dust			
Explosion-proof temperature rating	$-10 ^{\circ}\text{C} \le \text{Ta} \le +50 ^{\circ}\text{C}^{1)}$	$-10 ^{\circ}\text{C} \le \text{Ta} \le +60 ^{\circ}\text{C}^{1)}$	
	$+5 ^{\circ}\text{C} \le \text{Ta} \le +50 ^{\circ}\text{C}^{2)}$	$+5 ^{\circ}\text{C} \le \text{Ta} \le +60 ^{\circ}\text{C}^{2)}$	
CE marking	To EU Explosion Protection Directive (ATEX)		
(see declaration of conformity)			

- When using a service unit with manual condensate drain.
- 2) When using a service unit with fully automatic condensate drain.
- When using a membrane air dryer MS4/6-LDM1.

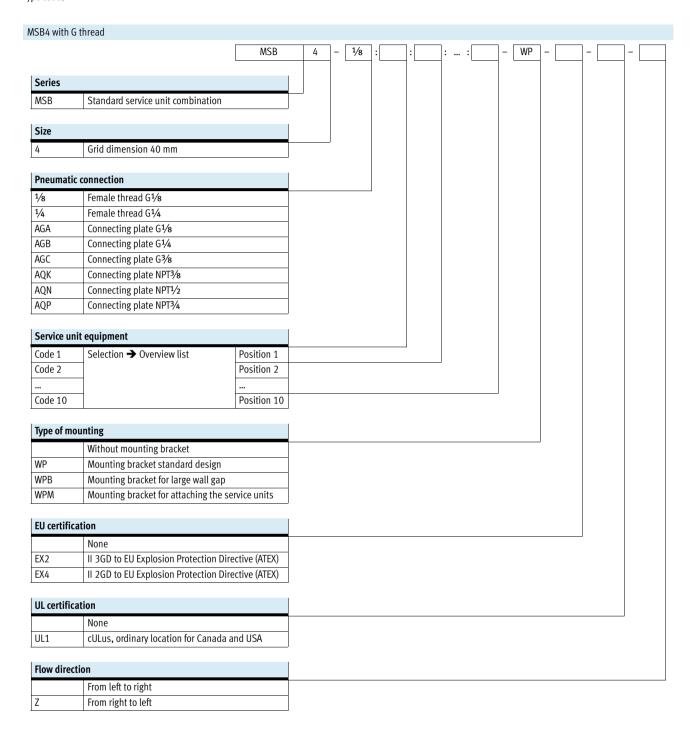
UL certification

Component certified by UL for the market in the USA and Canada for normal environments. To be selected using the code UL1 in the order section "UL certification",

- Operating pressure/pressure regulation range max. 10 bar
- Supply voltage for on-off valve MS-EE or soft-start valve MS-DE max. 24 V DC

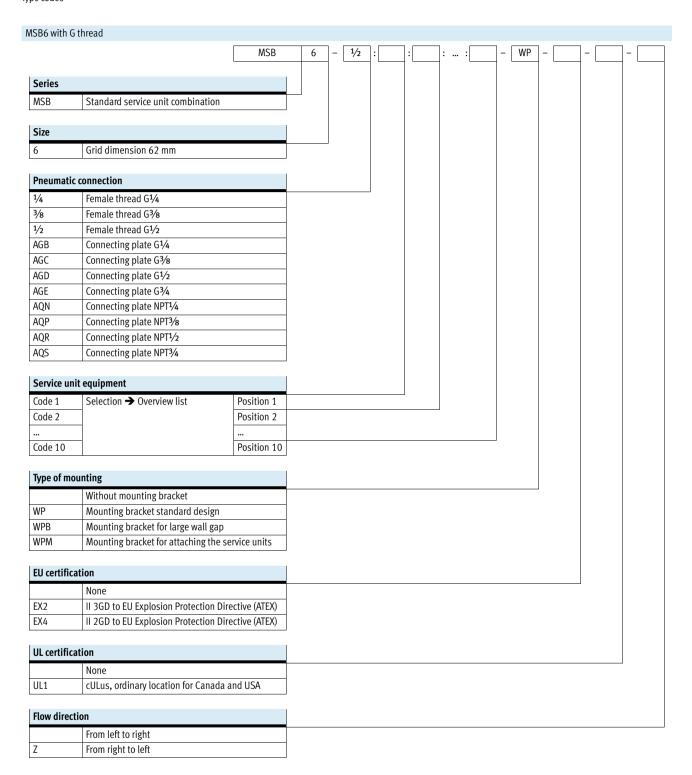


Type codes



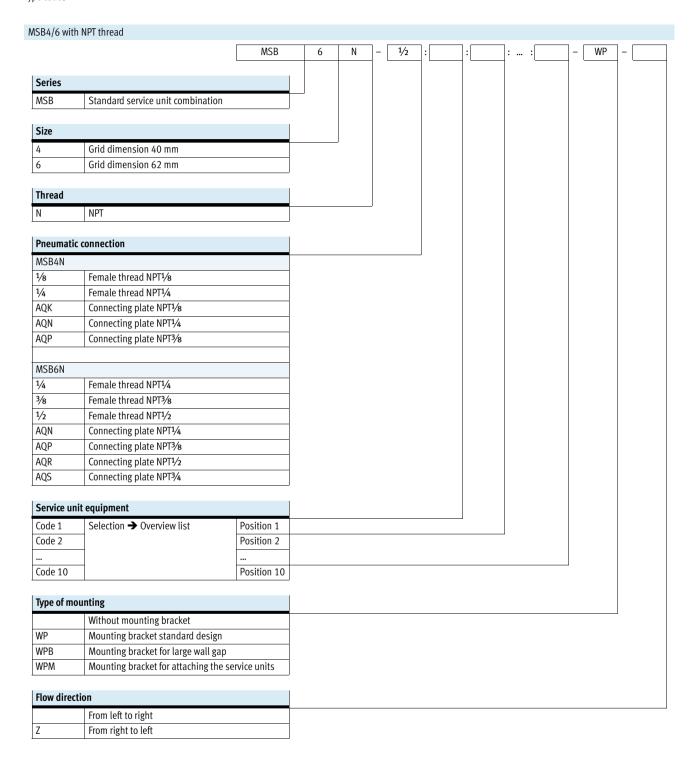


Tyne codes





Type codes





	1	Service	e units MS4/6	D
Code	Size	MC	Туре	Description
	MS4	MS6		
			pneumatically actuated	
\1	=		MS-DL	Cover plate
12	■ 1)	■ 1)	MS-DL-AD7	Pressure sensor with operational status indicator (plug M8, threshold value comparator, PNP, N/O contact)
.) Fem	iale thread o	only with (G1/4 (MS4) or G1/2 (MS6)	
oft-st	art valve	MS-DE.	electrically actuated	
31			MS-DE-V24	Supply voltage 24 V DC, operating pressure 4 14 bar (MS4) / 4 18 bar (MS6), electrical connec-
				tion to EN 175301-803 (plug connector, type C), cover plate
32	-		MS-DE-V110	Supply voltage 110 V AC, operating pressure 4 14 bar (MS4) / 4 18 bar (MS6), electrical connec
				tion to EN 175301-803 (plug connector, type C), cover plate
33			MS-DE-V230	Supply voltage 230 V AC, operating pressure 4 14 bar (MS4) / 4 18 bar (MS6), electrical connec
				tion to EN 175301-803 (plug connector, type C), cover plate
34			MS-DE-10V24	Supply voltage 24 V DC, operating pressure 4 10 bar, electrical connection to EN 175301-803
				(plug connector, type C), cover plate
35			MS-DE-V24-EX2	Supply voltage 24 V DC, operating pressure 4 14 bar (MS4) / 4 18 bar (MS6), electrical connec-
				tion to EN 175301-803 (plug connector, type C), cover plate, to EU Explosion Protection Directive
				(ATEX)
		1		
n-off	valve MS	-EM1, r	manually actuated	
:3			MS-EM1	Without silencer, cover plate
.4	•		MS-EM1-S	Silencer, cover plate
			-	
On-off	valve MS	-EE. ele	ctrically actuated	
01	-		MS-EE-V24	Supply voltage 24 V DC, operating pressure 4 14 bar (MS4) / 4 18 bar (MS6), electrical connec-
				tion to EN 175301-803 (plug connector, type C), without silencer, cover plate
)2			MS-EE-V110	Supply voltage 110 V AC, operating pressure 4 14 bar (MS4) / 4 18 bar (MS6), electrical connections
			22 7710	tion to EN 175301-803 (plug connector, type C), without silencer, cover plate
)3		-	MS-EE-V230	Supply voltage 230 V AC, operating pressure 4 14 bar (MS4) / 4 18 bar (MS6), electrical connections
		-	1113 EE 1230	tion to EN 175301-803 (plug connector, type C), without silencer, cover plate
)4			MS-EE-V24-S	Supply voltage 24 V DC, operating pressure 4 10 bar, electrical connection to EN 175301-803
7	-	-	MIS EL VZ4 S	(plug connector, type C), silencer, cover plate
)5			MS-EE-V110-S	Supply voltage 110 V AC, operating pressure 4 10 bar, electrical connection to EN 175301-803
,,	-	_	WIS LE VIIO S	(plug connector, type C), silencer, cover plate
06			MS-EE-V230-S	Supply voltage 230 V AC, operating pressure 4 10 bar, electrical connection to EN 175301-803
,0	-	_	IVIS EL V250 S	(plug connector, type C), silencer, cover plate
07			MS-EE-10V24	Supply voltage 24 V DC, operating pressure 4 10 bar, electrical connection to EN 175301-803
, ,	_	-	WI3-LL-10V24	(plug connector, type C), without silencer, cover plate
08			MS-EE-10V24-S	Supply voltage 24 V DC, operating pressure 4 10 bar, electrical connection to EN 175301-803
76	_	-	WI3-LL-10V24-3	(plug connector, type C), silencer, cover plate
)9			MC FF V24 FV2	Supply voltage 24 V DC, operating pressure 4 14 bar (MS4) / 4 18 bar (MS6), electrical connec-
)9	_	-	MS-EE-V24-EX2	
				tion to EN 175301-803 (plug connector, type C), without silencer, cover plate, to EU Explosion Protection Discretize (ATEX)
110			MC FF V2 / C FV2	tion Directive (ATEX)
010	-	-	MS-EE-V24-S-EX2	Supply voltage 24 V DC, operating pressure 4 10 bar, electrical connection to EN 175301-803
112	_1)	_1)	MC FF 40V2 / ADT	(plug connector, type C), silencer, cover plate, to EU Explosion Protection Directive (ATEX)
012	■ 1)	■ 1)	MS-EE-10V24-AD7	Supply voltage 24 V DC, operating pressure 4 10 bar, electrical connection to EN 175301-803
				(plug connector, type C), without silencer, pressure sensor with operational status indicator (plug M8
				threshold value comparator, PNP, N/O contact)
013	1)	1)	MS-EE-10V24-S-AD7	Supply voltage 24 V DC, operating pressure 4 10 bar, electrical connection to EN 175301-803
				(plug connector, type C), silencer, pressure sensor with operational status indicator (plug M8,
		1	į.	threshold value comparator, PNP, N/O contact)
				tineshold value comparator, Five, NyO contact)



Overviev	w list – S	Service	units MS4/6	
Code	Size		Туре	Description
	MS4	MS6		
On-off va	alve MS-	EE, elec	trically actuated	
D14	■ 1)	1)	MS-EE-10V24P-AD7	Supply voltage 24 V DC, operating pressure 4 10 bar, electrical connection to IEC 61076-2-101
				(plug connector M12x1, 2-pin), without silencer, pressure sensor with operational status indicator
				(plug M8, threshold value comparator, PNP, N/O contact)
D15	1)	1)	MS-EE-10V24P-S-AD7	Supply voltage 24 V DC, operating pressure 4 10 bar, electrical connection to IEC 61076-2-101
				(plug connector M12x1, 2-pin), silencer, pressure sensor with operational status indicator (plug M8,
				threshold value comparator, PNP, N/O contact)
D19	■ 1)	1)	MS-EE-10V24P	Supply voltage 24 V DC, operating pressure 4 10 bar, electrical connection to IEC 61076-2-101
				(plug connector M12x1, 2-pin), without silencer, cover plate
D20	■ 1)	1)	MS-EE-10V24P-S	Supply voltage 24 V DC, operating pressure 4 10 bar, electrical connection to IEC 61076-2-101
				(plug connector M12x1, 2-pin), silencer, cover plate
1) Female	e thread or	nly with G1,	/4 (MS4) or G ¹ / ₂ (MS6)	
D 1:		L MC =	DAA/	
			RM/distributor block MS-FRM-FRZ	Committee
F1	-	-	MS-FRM	Cover plate
F2	-	-	MS-FRM-I	Integrated non-return function, cover plate
F3	-	-	MS-FRM-Y	Pressure switch without display (plug socket, EN 175 301, type A, cube), cover plate
F6	-	-	MS-FRM-AD1	Pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin)
F7	•	•	MS-FRM-I-AD1	Integrated non-return function, pressure sensor with LCD display (plug M8, 1 switching output PNP,
F0.	_	_	MC FDM M42	3-pin)
F8	-	-	MS-FRM-M12	Pressure switch without display (plug socket, round, M12, 4-pin), cover plate
F9	•	•	MS-FRM-I-M12	Integrated non-return function, pressure switch without display (plug socket, round, M12, 4-pin), cover plate
F10	-		MS-FRM-AD3	Pressure sensor with LCD display (plug M12, 1 switching output PNP, 4-pin)
F11		_	MS-FRM-I-AD3	Integrated non-return function, pressure sensor with LCD display (plug M12, 1 switching output PNP,
				4-pin)
F12			MS-FRM-AD7	Pressure sensor with operational status indicator (plug M8, threshold value comparator, PNP,
				N/O contact)
F13	•		MS-FRM-I-AD7	Integrated non-return function, pressure sensor with operational status indicator (plug M8, threshold
				value comparator, PNP, N/O contact)
F14			MS-FRM-FRZ	Half grid dimension 20 mm
			1	
Membra	ne air dr	yer MS-	LDM1	
G3		-	MS-LDM1-P05	Flow cartridge 50 l/min
G4		ı	MS-LDM1-P10	Flow cartridge 100 l/min
G5	-		MS-LDM1-P20	Flow cartridge 200 l/min
G6	-		MS-LDM1-P30	Flow cartridge 300 l/min
G7	-		MS-LDM1-P40	Flow cartridge 400 l/min
Filter MS	,			
H1	-	-	MS-LF-ERV	Grade of filtration 40 μm, plastic bowl guard, fully automatic condensate drain
H2	-	-	MS-LF-ERM	Grade of filtration 40 μm, plastic bowl guard, manual condensate drain
H3	-	-	MS-LF-CRM	Grade of filtration 5 µm, plastic bowl guard, manual condensate drain
H4	-	-	MS-LF-CRV	Grade of filtration 5 µm, plastic bowl guard, fully automatic condensate drain
H5	_	_	MS-LF-CUM	Grade of filtration 5 µm, metal bowl, manual condensate drain
H6	-	-	MS-LF-CUV	Grade of filtration 5 µm, metal bowl, fully automatic condensate drain
H7	-	-	MS-LF-EUV	Grade of filtration 40 μm, metal bowl, fully automatic condensate drain
H8			MS-LF-EUM	Grade of filtration 40 μm, metal bowl, manual condensate drain



Code	Size		Туре	Description
couc	MS4	MS6	Турс	Description
			I FAA	
	d micro fi		,	Cond. of Charties 4 and all attached and an and an article and are the
1	-		MS-LFM-BRM	Grade of filtration 1 µm, plastic bowl guard, manual condensate drain
2	-	-	MS-LFM-BRV	Grade of filtration 1 μm, plastic bowl guard, fully automatic condensate drain
3			MS-LFM-ARM	Grade of filtration 0.01 μm, plastic bowl guard, manual condensate drain
4	-		MS-LFM-ARV	Grade of filtration 0.01 μm, plastic bowl guard, fully automatic condensate drain
15	•	•	MS-LFM-ARM-DA	Grade of filtration 0.01 μ m, plastic bowl guard, manual condensate drain, optical differential pressure indicator
6	1	•	MS-LFM-ARV-DA	Grade of filtration 0.01 µm, plastic bowl guard, fully automatic condensate drain, optical differential pressure indicator
7			MS-LFM-BUV	Grade of filtration 1 µm, metal bowl, fully automatic condensate drain
18			MS-LFM-AUV	Grade of filtration 0.01 µm, metal bowl, fully automatic condensate drain
19			MS-LFM-BUV-DA	Grade of filtration 1 µm, metal bowl, fully automatic condensate drain, optical differential pressure
			me zim zev ziv	indicator
110			MS-LFM-BRM-DA	Grade of filtration 1 µm, plastic bowl guard, manual condensate drain, optical differential pressure
				indicator
111	_	•	MS-LFM-BRV-DA	Grade of filtration 1 µm, plastic bowl guard, fully automatic condensate drain, optical differential pressure indicator
112	-		MS-LFM-AUV-DA	Grade of filtration 0.01 µm, metal bowl, fully automatic condensate drain, optical differential
				pressure indicator
13			MS-LFM-BRM-DP	Grade of filtration 1 µm, plastic bowl guard, manual condensate drain, filter contamination indicator
				(plug M8, PNP, 3-pin)
14	_		MS-LFM-BRV-DP	Grade of filtration 1 µm, plastic bowl guard, fully automatic condensate drain, filter contamination
				indicator (plug M8, PNP, 3-pin)
15			MS-LFM-ARM-DP	Grade of filtration 0.01 µm, plastic bowl guard, manual condensate drain, filter contamination
				indicator (plug M8, PNP, 3-pin)
16	_		MS-LFM-ARV-DP	Grade of filtration 0.01 µm, plastic bowl guard, fully automatic condensate drain, filter contaminatio
				indicator (plug M8, PNP, 3-pin)
17			MS-LFM-BUV-DP	Grade of filtration 1 µm, metal bowl, fully automatic condensate drain, filter contamination indicator
				(plug M8, PNP, 3-pin)
18		_	MS-LFM-AUV-DP	Grade of filtration 0.01 µm, metal bowl, fully automatic condensate drain, filter contamination
10	_	_	MS LIM NOV DI	indicator (plug M8, PNP, 3-pin)
23	_		MS-LFM-BUV-HF	Grade of filtration 1 µm, metal bowl, fully automatic condensate drain, high flow rate
24	_	-	MS-LFM-AUV-HF	Grade of filtration 0.01 µm, metal bowl, fully automatic condensate drain, high flow rate
25	_		MS-LFM-BUV-HF-DA	Grade of filtration 1.01 µm, metal bowl, fully automatic condensate drain, high flow rate, optical
۷ ـ		-	mo Lim DOV III DA	differential pressure indicator
126	 _	_	MS-LFM-AUV-HF-DA	Grade of filtration 0.01 µm, metal bowl, fully automatic condensate drain, high flow rate, optical
20		-	mo Lim Nov III DA	differential pressure indicator
127	_		MS-LFM-BUV-HF-DP	Grade of filtration 1 µm, metal bowl, fully automatic condensate drain, high flow rate, filter
14/		-	MIS LIM DOV III-DI	contamination indicator (plug M8, PNP, 3-pin)
128	_	-	MS-LFM-AUV-HF-DP	Grade of filtration 0.01 µm, metal bowl, fully automatic condensate drain, high flow rate, filter
20	-	-	INIO-FI INI-WON-UL-DL	,
120	_	1)	WC LEW VD/\ HD	contamination indicator (plug M8, PNP, 3-pin)
29	_	= */	MS-LFM-ARV-HP	Grade of filtration 0.01 µm, plastic bowl guard, fully automatic condensate drain, low flow rate suitable for sealing air and cleaning air
20		1)	MC LEW DDV/ LID	Grade of filtration 1 µm, plastic bowl guard, fully automatic condensate drain, low flow rate suitable
30	_	= */	MS-LFM-BRV-HP	
124		_1)	MC LEM ADVIVE DD	for sealing air and cleaning air
l31	-	1)	MS-LFM-ARV-HP-DP	Grade of filtration 0.01 μm, plastic bowl guard, fully automatic condensate drain, low flow rate
		_1)		suitable for sealing air and cleaning air, filter contamination indicator (plug M8, PNP, 3-pin)
132	-	1)	MS-LFM-BRV-HP-DP	Grade of filtration 1 μ m, plastic bowl guard, fully automatic condensate drain, low flow rate suitable
	1			for sealing air and cleaning air, filter contamination indicator (plug M8, PNP, 3-pin)



Overvie	w list –	Service	units MS4/6	
Code	Size		Туре	Description
	MS4	MS6		
Filter re	gulator <i>I</i>	NS-LFR		
J1			MS-LFR-D7-ERM-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, plastic bowl guard, manual
				condensate drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, stand-
				ard rotary knob with detent, lockable with accessories
J2			MS-LFR-D7-ERV-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, plastic bowl guard, fully automatic
				condensate drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, stand-
				ard rotary knob with detent, lockable with accessories
J3			MS-LFR-D7-CRM-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μ m, plastic bowl guard, manual
				condensate drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, stand-
				ard rotary knob with detent, lockable with accessories
J4	•		MS-LFR-D7-CRV-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, plastic bowl guard, fully automatic
				condensate drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, stand-
				ard rotary knob with detent, lockable with accessories
J5			MS-LFR-D6-ERM-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 μm, plastic bowl guard, manual
				condensate drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, stand-
				ard rotary knob with detent, lockable with accessories
J6	•		MS-LFR-D6-ERV-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 μm, plastic bowl guard, fully automatic
				condensate drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, stand-
				ard rotary knob with detent, lockable with accessories
J7	-		MS-LFR-D6-CRM-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 μm, plastic bowl guard, manual
				condensate drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, stand-
				ard rotary knob with detent, lockable with accessories
J8		-	MS-LFR-D6-CRV-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 μm, plastic bowl guard, fully automatic
				condensate drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, stand-
10	_	_	MC LED D7 CUM AC	ard rotary knob with detent, lockable with accessories
J9	•	-	MS-LFR-D7-CUM-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, metal bowl, manual condensate
				drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary
J10	•	-	MS-LFR-D7-CUV-AS	knob with detent, lockable with accessories Pressure regulation range 0.5 12 bar, grade of filtration 5 µm, metal bowl, fully automatic
)10	-	-	M3-LI K-D/-CUV-A3	condensate drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, stand-
				ard rotary knob with detent, lockable with accessories
J11			MS-LFR-D7-EUM-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, metal bowl, manual condensate
,11	-	_	MS EIR DY LOM 715	drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary
				knob with detent, lockable with accessories
J12			MS-LFR-D7-EUV-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, metal bowl, fully automatic
,				condensate drain, integrated MS pressure gauge with outer scale in bar and inner scale in psi, stand-
				ard rotary knob with detent, lockable with accessories
J13			MS-LFR-D7-ERM-AD1-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, plastic bowl guard, manual
				condensate drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin),
				standard rotary knob with detent, lockable with accessories
J14			MS-LFR-D7-ERV-AD1-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, plastic bowl guard, fully automatic
				condensate drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin),
				standard rotary knob with detent, lockable with accessories
J15			MS-LFR-D7-CRM-AD1-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, plastic bowl guard, manual
				condensate drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin),
				standard rotary knob with detent, lockable with accessories
J16			MS-LFR-D7-CRV-AD1-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, plastic bowl guard, fully automatic
				condensate drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin),
				standard rotary knob with detent, lockable with accessories



	ew list –	Service	units MS4/6	
Code	Size	T	Туре	Description
	MS4	MS6		
Filter re	egulator	MS-LFR		
J17			MS-LFR-D6-ERM-AD1-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 μ m, plastic bowl guard, manual
				condensate drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin),
				standard rotary knob with detent, lockable with accessories
J18			MS-LFR-D6-ERV-AD1-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 μm , plastic bowl guard, fully automatic
				condensate drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin),
				standard rotary knob with detent, lockable with accessories
J19			MS-LFR-D6-CRM-AD1-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 μ m, plastic bowl guard, manual
				condensate drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin),
				standard rotary knob with detent, lockable with accessories
J20			MS-LFR-D6-CRV-AD1-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, plastic bowl guard, fully automatic
				condensate drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin),
				standard rotary knob with detent, lockable with accessories
J21			MS-LFR-D7-EUM-AD1-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, metal bowl, manual condensate
				drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), standard rotary
				knob with detent, lockable with accessories
J22	-		MS-LFR-D7-EUV-AD1-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, metal bowl, fully automatic
				condensate drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin),
				standard rotary knob with detent, lockable with accessories
J23			MS-LFR-D7-CUM-AD1-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm , metal bowl, manual condensate
				drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), standard rotary
				knob with detent, lockable with accessories
J24			MS-LFR-D7-CUV-AD1-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, metal bowl, fully automatic
				condensate drain, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin),
				standard rotary knob with detent, lockable with accessories
J35			MS-LFR-D7-ERM-AD7-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, plastic bowl guard, manual
				condensate drain, pressure sensor with operational status indicator (plug M8, threshold value com-
				parator, PNP, N/O contact), standard rotary knob with detent, lockable with accessories
J36			MS-LFR-D7-ERV-AD7-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μ m, plastic bowl guard, fully automatic
				condensate drain, pressure sensor with operational status indicator (plug M8, threshold value com-
				parator, PNP, N/O contact), standard rotary knob with detent, lockable with accessories
J37	-		MS-LFR-D7-CRM-AD7-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μ m, plastic bowl guard, manual
				condensate drain, pressure sensor with operational status indicator (plug M8, threshold value com-
				parator, PNP, N/O contact), standard rotary knob with detent, lockable with accessories
J38			MS-LFR-D7-CRV-AD7-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, plastic bowl guard, fully automatic
				condensate drain, pressure sensor with operational status indicator (plug M8, threshold value com-
				parator, PNP, N/O contact), standard rotary knob with detent, lockable with accessories
J39	-		MS-LFR-D6-ERM-AD7-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 μm, plastic bowl guard, manual
				condensate drain, pressure sensor with operational status indicator (plug M8, threshold value com-
				parator, PNP, N/O contact), standard rotary knob with detent, lockable with accessories
J40	-		MS-LFR-D6-ERV-AD7-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 μ m, plastic bowl guard, fully automatic
				condensate drain, pressure sensor with operational status indicator (plug M8, threshold value com-
144		_	MC LED D (CD:: 15 = 10	parator, PNP, N/O contact), standard rotary knob with detent, lockable with accessories
J41	-	-	MS-LFR-D6-CRM-AD7-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, plastic bowl guard, manual
				condensate drain, pressure sensor with operational status indicator (plug M8, threshold value com-
				parator, PNP, N/O contact), standard rotary knob with detent, lockable with accessories
J42	-		MS-LFR-D6-CRV-AD7-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, plastic bowl guard, fully automatic
				condensate drain, pressure sensor with operational status indicator (plug M8, threshold value com-
				parator, PNP, N/O contact), standard rotary knob with detent, lockable with accessories



Overvie	w list –	Service	units MS4/6	
Code	Size		Туре	Description
	MS4	MS6		
Filter re	gulator N	NS-LFR		
J43			MS-LFR-D7-EUM-AD7-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, metal bowl, manual condensate
				drain, pressure sensor with operational status indicator (plug M8, threshold value comparator, PNP,
				N/O contact), standard rotary knob with detent, lockable with accessories
J44			MS-LFR-D7-EUV-AD7-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, metal bowl, fully automatic
				condensate drain, pressure sensor with operational status indicator (plug M8, threshold value com-
				parator, PNP, N/O contact), standard rotary knob with detent, lockable with accessories
J45			MS-LFR-D7-CUM-AD7-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm , metal bowl, manual condensate
				drain, pressure sensor with operational status indicator (plug M8, threshold value comparator, PNP,
				N/O contact), standard rotary knob with detent, lockable with accessories
J46			MS-LFR-D7-CUV-AD7-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μ m, metal bowl, fully automatic
				condensate drain, pressure sensor with operational status indicator (plug M8, threshold value com-
				parator, PNP, N/O contact), standard rotary knob with detent, lockable with accessories
J79	1)	1)	MS-LFR-D7-ERM-RG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm , plastic bowl guard, manual
				condensate drain, integrated MS pressure gauge with red-green scale with outer scale in bar and
				inner scale in psi, standard rotary knob with detent, lockable with accessories
J80	1)	1)	MS-LFR-D7-ERV-RG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm , plastic bowl guard, fully automatic
				condensate drain, integrated MS pressure gauge with red-green scale with outer scale in bar and
				inner scale in psi, standard rotary knob with detent, lockable with accessories
J81	■ 1)	■ 1)	MS-LFR-D7-CRM-RG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm , plastic bowl guard, manual
				condensate drain, integrated MS pressure gauge with red-green scale with outer scale in bar and
				inner scale in psi, standard rotary knob with detent, lockable with accessories
J82	■ 1)	1)	MS-LFR-D7-CRV-RG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, plastic bowl guard, fully automatic
				condensate drain, integrated MS pressure gauge with red-green scale with outer scale in bar and
	4)	4)		inner scale in psi, standard rotary knob with detent, lockable with accessories
J83	■ 1)	■ 1)	MS-LFR-D6-ERM-RG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 μm, plastic bowl guard, manual
				condensate drain, integrated MS pressure gauge with red-green scale with outer scale in bar and
	1)	1)		inner scale in psi, standard rotary knob with detent, lockable with accessories
J84	■ 1)	1)	MS-LFR-D6-ERV-RG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 μm, plastic bowl guard, fully automatic
				condensate drain, integrated MS pressure gauge with red-green scale with outer scale in bar and
10.5	-1)	— 1)	MC LED D C CDM DC AC	inner scale in psi, standard rotary knob with detent, lockable with accessories
J85	1)	1)	MS-LFR-D6-CRM-RG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 μm, plastic bowl guard, manual
				condensate drain, integrated MS pressure gauge with red-green scale with outer scale in bar and
107	1)	— 1)	MC LED DY CDV DC AC	inner scale in psi, standard rotary knob with detent, lockable with accessories
J86	= 1)	■ 1)	MS-LFR-D6-CRV-RG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, plastic bowl guard, fully automatic
				condensate drain, integrated MS pressure gauge with red-green scale with outer scale in bar and
107	1)	1)	MC LED D7 ELIM DC AC	inner scale in psi, standard rotary knob with detent, lockable with accessories
J87	= -/	= -/	MS-LFR-D7-EUM-RG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, metal bowl, manual condensate
				drain, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
100	1)	1)	MC LED DZ ELIV DC AC	· · · · · · · · · · · · · · · · · · ·
J88	= -/	= -/	MS-LFR-D7-EUV-RG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, metal bowl, fully automatic
				condensate drain, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
J89	1)	1)	MS-LFR-D7-CUM-RG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 µm, metal bowl, manual condensate
J07			MID-FI K-D/ -COM-KO-AD	drain, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in
Inn	1)	1)	MS-LFR-D7-CUV-RG-AS	psi, standard rotary knob with detent, lockable with accessories
J90	= 1)	= 1/	MIS-FLK-N/-CON-KG-YZ	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, metal bowl, fully automatic
				condensate drain, integrated MS pressure gauge with red-green scale with outer scale in bar and
1) Fema	le thread o	nly with C	1/4 (MS4) or G1/2 (MS6)	inner scale in psi, standard rotary knob with detent, lockable with accessories
1) I CIIId	ne uneau 01	my with t	/4 (m34) 01 U72 (m30)	



Code	Size		units MS4/6 Type	Description
couc	MS4	MS6	- Type	bescription
*1.				
	gulator ∧ ■1)		MC LED DZ EDM AQ AC	Draceure regulation range 0.5. 12 has grade of filtration (0.100 placetic hours grand manual
91	= 1)	-	MS-LFR-D7-ERM-A8-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, plastic bowl guard, manual
				condensate drain, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary
		_1)		knob with detent, lockable with accessories
	-	■ 1)	MS-LFR-D7-ERM-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, plastic bowl guard, manual
				condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary
02	4)			knob with detent, lockable with accessories
92	1)	-	MS-LFR-D7-ERV-A8-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, plastic bowl guard, fully automatic
				condensate drain, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary
				knob with detent, lockable with accessories
	-	■ 1)	MS-LFR-D7-ERV-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μ m, plastic bowl guard, fully automatic
				condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary
				knob with detent, lockable with accessories
93	1)	-	MS-LFR-D7-CRM-A8-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, plastic bowl guard, manual
				condensate drain, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary
				knob with detent, lockable with accessories
	_	1)	MS-LFR-D7-CRM-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, plastic bowl guard, manual
				condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary
				knob with detent, lockable with accessories
94	1)	-	MS-LFR-D7-CRV-A8-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 µm, plastic bowl guard, fully automatic
				condensate drain, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary
				knob with detent, lockable with accessories
	_	1)	MS-LFR-D7-CRV-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, plastic bowl guard, fully automatic
				condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary
				knob with detent, lockable with accessories
95	1)	_	MS-LFR-D6-ERM-A8-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 μm, plastic bowl guard, manual
, ,			mo zi k bo zikii rio rio	condensate drain, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary
				knob with detent, lockable with accessories
	_	1)	MS-LFR-D6-ERM-A4-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, plastic bowl guard, manual
			MS EIR BO ERM 714 715	condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary
				knob with detent, lockable with accessories
96	1)		MS-LFR-D6-ERV-A8-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, plastic bowl guard, fully automatic
90	_ ′		MIS-LI K-DU-LIKV-AU-AS	condensate drain, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary
				knob with detent, lockable with accessories
		1)	MS-LFR-D6-ERV-A4-AS	·
	_	= -/	MS-LFK-D6-EKV-A4-A5	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, plastic bowl guard, fully automatic
				condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary
0.7	1)		MC LED D C CDM AG AC	knob with detent, lockable with accessories
97	= 1)	-	MS-LFR-D6-CRM-A8-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, plastic bowl guard, manual
				condensate drain, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary
		4)		knob with detent, lockable with accessories
	_	1)	MS-LFR-D6-CRM-A4-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, plastic bowl guard, manual
				condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary
				knob with detent, lockable with accessories
98	1)	_	MS-LFR-D6-CRV-A8-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 μm, plastic bowl guard, fully automatic
				condensate drain, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary
				knob with detent, lockable with accessories
	-	■ 1)	MS-LFR-D6-CRV-A4-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 μm, plastic bowl guard, fully automatic
				condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary
	1	l		knob with detent, lockable with accessories



Overvie	ew list –	Service	units MS4/6	
Code	Size		Туре	Description
	MS4	MS6		
Filter re	gulator N	NS-LFR		
J99	1)	-	MS-LFR-D7-EUM-A8-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μ m, metal bowl, manual condensate drain, adapter plate for EN pressure gauge $1/8$ (without pressure gauge), standard rotary knob with detent, lockable with accessories
	-	1)	MS-LFR-D7-EUM-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, metal bowl, manual condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J100	1)	-	MS-LFR-D7-EUV-A8-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μm, metal bowl, fully automatic condensate drain, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary knob with detent, lockable with accessories
	-	1 1)	MS-LFR-D7-EUV-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 μ m, metal bowl, fully automatic condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J101	1 1)	-	MS-LFR-D7-CUM-A8-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μ m, metal bowl, manual condensate drain, adapter plate for EN pressure gauge $1/8$ (without pressure gauge), standard rotary knob with detent, lockable with accessories
	-	1)	MS-LFR-D7-CUM-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 µm, metal bowl, manual condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J102	1)	-	MS-LFR-D7-CUV-A8-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 µm, metal bowl, fully automatic condensate drain, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary knob with detent, lockable with accessories
	-	1 1)	MS-LFR-D7-CUV-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 µm, metal bowl, fully automatic condensate drain, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J119	1)	1 1)	MS-LFR-D6-CRV-MPA-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, plastic bowl guard, fully automatic condensate drain, integrated MS pressure gauge with outer scale in MPa, standard rotary knob with detent, lockable with accessories
J120	1)	1 1)	MS-LFR-D6-ERM-MPA-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, plastic bowl guard, manual condensate drain, integrated MS pressure gauge with outer scale in MPa, standard rotary knob with detent, lockable with accessories
J121	1 1)	1 1)	MS-LFR-D6-ERV-MPA-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, plastic bowl guard, fully automatic condensate drain, integrated MS pressure gauge with outer scale in MPa, standard rotary knob with detent, lockable with accessories
J124	1)	1)	MS-LFR-D6-CRM-MPA-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 μ m, plastic bowl guard, manual condensate drain, integrated MS pressure gauge with outer scale in MPa, standard rotary knob with detent, lockable with accessories
			1/4 (MS4) or G1/2 (MS6)	
Activate	ed carbor	n filter N		
L1			MS-LFX-R	Plastic bowl guard
L2			MS-LFX-U	Metal bowl
L3	-	-	MS-LFX-U-HF	Metal bowl, high flow rate
L4	-	1)	MS-LFX-R-HP	Plastic bowl guard, low flow rate suitable for sealing air and cleaning air
	ale thread o		½ (MS6)	
Lubrica	tor MS-LO	DE		
M1			MS-LOE-R	Plastic bowl guard
M2			MS-LOE-U	Metal bowl

Subject to change – 2016/06



Overvie	w list – S	Service	units MS4/6	
Code	Size		Туре	Description
	MS4	MS6		
Pressur	e regulat	or MS-L	_R	
N1			MS-LR-D5-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner
				scale in psi, standard rotary knob with detent, lockable with accessories
N2			MS-LR-D6-AS	Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner
				scale in psi, standard rotary knob with detent, lockable with accessories
N3			MS-LR-D7-AS	Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and
				inner scale in psi, standard rotary knob with detent, lockable with accessories
N4	-		MS-LR-D5-AD1-AS	Pressure regulation range 0.3 4 bar, pressure sensor with LCD display (plug M8, 1 switching output
				PNP, 3-pin), standard rotary knob with detent, lockable with accessories
N5			MS-LR-D6-AD1-AS	Pressure regulation range 0.3 7 bar, pressure sensor with LCD display (plug M8, 1 switching output
				PNP, 3-pin), standard rotary knob with detent, lockable with accessories
N6	•	•	MS-LR-D7-AD1-AS	Pressure regulation range 0.5 12 bar, pressure sensor with LCD display (plug M8, 1 switching
		_		output PNP, 3-pin), standard rotary knob with detent, lockable with accessories
N7	-	-	MS-LR-D5-KD-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner
No		_	AAC LD D C I/D AC	scale in psi, rotary knob underneath, standard rotary knob with detent, lockable with accessories
N8	-		MS-LR-D6-KD-AS	Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner
NO		_	MC I D D7 I/D AC	scale in psi, rotary knob underneath, standard rotary knob with detent, lockable with accessories
N9	-	-	MS-LR-D7-KD-AS	Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and
				inner scale in psi, rotary knob underneath, standard rotary knob with detent, lockable with accessories
N10		-	MS-LR-D5-AD1-KD-AS	Pressure regulation range 0.3 4 bar, pressure sensor with LCD display (plug M8, 1 switching output
NIU	-	-	MIS-FK-D3-AD1-KD-A3	PNP, 3-pin), rotary knob underneath, standard rotary knob with detent, lockable with accessories
N11			MS-LR-D6-AD1-KD-AS	Pressure regulation range 0.3 7 bar, pressure sensor with LCD display (plug M8, 1 switching output
IVII	_	_	MIS-EN-DO-ADT-ND-AS	PNP, 3-pin), rotary knob underneath, standard rotary knob with detent, lockable with accessories
N12			MS-LR-D7-AD1-KD-AS	Pressure regulation range 0.5 12 bar, pressure sensor with LCD display (plug M8, 1 switching out-
1112	-	_	MO ER DY NOT ROYS	put PNP, 3-pin), rotary knob underneath, standard rotary knob with detent, lockable with accessories
N19	•		MS-LR-D5-AD7-AS	Pressure regulation range 0.3 4 bar, pressure sensor with operational status indicator (plug M8,
				threshold value comparator, PNP, N/O contact), standard rotary knob with detent, lockable with
				accessories
N20			MS-LR-D6-AD7-AS	Pressure regulation range 0.3 7 bar, pressure sensor with operational status indicator (plug M8,
				threshold value comparator, PNP, N/O contact), standard rotary knob with detent, lockable with
				accessories
N21	-		MS-LR-D7-AD7-AS	Pressure regulation range 0.5 12 bar, pressure sensor with operational status indicator (plug M8,
				threshold value comparator, PNP, N/O contact), standard rotary knob with detent, lockable with
				accessories
N22	-		MS-LR-D5-AD7-KD-AS	Pressure regulation range 0.3 4 bar, pressure sensor with operational status indicator (plug M8,
				threshold value comparator, PNP, N/O contact), rotary knob underneath, standard rotary knob with
				detent, lockable with accessories
N23	-		MS-LR-D6-AD7-KD-AS	Pressure regulation range 0.3 7 bar, pressure sensor with operational status indicator (plug M8,
				threshold value comparator, PNP, N/O contact), rotary knob underneath, standard rotary knob with
				detent, lockable with accessories
N24	•		MS-LR-D7-AD7-KD-AS	Pressure regulation range 0.5 12 bar, pressure sensor with operational status indicator (plug M8,
				threshold value comparator, PNP, N/O contact), rotary knob underneath, standard rotary knob with
Nac			MC 18 85 1/6 5 1 1	detent, lockable with accessories
N28	-	-	MS-LR-D5-VS-DM2	Pressure regulation range 0.3 4 bar, cover plate, large rotary knob pressure gauge
N29	-	-	MS-LR-D6-VS-DM2	Pressure regulation range 0.3 7 bar, cover plate, large rotary knob pressure gauge
N30	-		MS-LR-D7-VS-DM2	Pressure regulation range 0.5 12 bar, cover plate, large rotary knob pressure gauge
N31	-	-	MS-LR-D5-VS-DM1	Pressure regulation range 0.3 4 bar, cover plate, small rotary knob pressure gauge
N32		-	MS-LR-D6-VS-DM1	Pressure regulation range 0.3 7 bar, cover plate, small rotary knob pressure gauge
N33		-	MS-LR-D7-VS-DM1	Pressure regulation range 0.5 12 bar, cover plate, small rotary knob pressure gauge



Code		Service	1_	
	Size		Туре	Description
	MS4	MS6		
Pressu	re regulat	or MS-I	_R	
N47	■ 1)	1)	MS-LR-D5-RG-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with red-green scale with outer
				scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
N48	1)	1)	MS-LR-D6-RG-AS	Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with red-green scale with outer
				scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
N49	1)	1)	MS-LR-D7-RG-AS	Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with red-green scale with outer
				scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
N50	1)	-	MS-LR-D5-A8-AS	Pressure regulation range 0.3 4 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, lockable with accessories
	-	1)	MS-LR-D5-A4-AS	Pressure regulation range 0.3 4 bar, adapter plate for EN pressure gauge 1/4 (without pressure
				gauge), standard rotary knob with detent, lockable with accessories
N51	1)	-	MS-LR-D6-A8-AS	Pressure regulation range 0.3 7 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, lockable with accessories
	-	1)	MS-LR-D6-A4-AS	Pressure regulation range 0.3 7 bar, adapter plate for EN pressure gauge 1/4 (without pressure
				gauge), standard rotary knob with detent, lockable with accessories
N52	1)	-	MS-LR-D7-A8-AS	Pressure regulation range 0.5 12 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, lockable with accessories
	_	1)	MS-LR-D7-A4-AS	Pressure regulation range 0.5 12 bar, adapter plate for EN pressure gauge 1/4 (without pressure
				gauge), standard rotary knob with detent, lockable with accessories
N59	1)	1)	MS-LR-D5-MPA-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in MPa,
				standard rotary knob with detent, lockable with accessories
N60	1)	1)	MS-LR-D6-MPA-AS	Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in MPa,
				standard rotary knob with detent, lockable with accessories
1) Fem	ale thread o	nly with G	1¼ (MS4) or G½ (MS6)	standard rotary knob with detent, lockable with accessories
1) Fem	ale thread o	nly with G	1/4 (MS4) or G1/2 (MS6)	standard rotary knob with detent, lockable with accessories
	ale thread o			standard rotary knob with detent, lockable with accessories
				Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner
Pressu	re regulat	or MS-I	.RB	
Pressu	re regulat	or MS-I	.RB	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner
Pressu 01	re regulat	or MS-I	.RB	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
Pressu 01	re regulat	or MS-I	RB MS-LRB-D5-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner
Pressu 01	re regulat	or MS-I	RB MS-LRB-D5-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner
Pressu 01 02	re regulat	or MS-I	RB MS-LRB-D5-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front
Pressu 01 02	re regulat	or MS-I	MS-LRB-D5-AS MS-LRB-D6-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
Pressu 01 02	re regulat	or MS-I	MS-LRB-D5-AS MS-LRB-D6-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and
Pressu 01 02 03	re regulat	or MS-I	MS-LRB-D5-AS MS-LRB-D6-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
Pressu 01 02 03	re regulat	or MS-I ■1) ■1)	MS-LRB-D5-AS MS-LRB-D6-AS MS-LRB-D7-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner
Pressu 01 02 03	re regulat	or MS-I ■1) ■1)	MS-LRB-D5-AS MS-LRB-D6-AS MS-LRB-D7-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner
01 02 03	re regulat	or MS-I ■1) ■1)	MS-LRB-D5-AS MS-LRB-D6-AS MS-LRB-D7-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8
01 02 03	re regulat ■1) ■1) ■1)	or MS-I ■1) ■1)	MS-LRB-D5-AS MS-LRB-D6-AS MS-LRB-D7-AS MS-LRB-D5-AS-BD	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front
01 02 03	re regulat ■1) ■1) ■1)	or MS-I ■1) ■1)	MS-LRB-D5-AS MS-LRB-D6-AS MS-LRB-D7-AS MS-LRB-D5-AS-BD	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8 Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8
Pressur 01 02 03 04	re regulat ■1) ■1) ■1) ■1)	or MS-I ■1) ■1)	MS-LRB-D5-AS MS-LRB-D6-AS MS-LRB-D7-AS MS-LRB-D5-AS-BD	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8 Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8
01 02 03	re regulat	■1) ■1) ■1)	MS-LRB-D5-AS MS-LRB-D6-AS MS-LRB-D7-AS MS-LRB-D5-AS-BD MS-LRB-D6-AS-BD	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8 Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8 Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and
Pressu 01 02 03 03 04	re regulat ■1) ■1) ■1) ■1)	■1) ■1) ■1)	MS-LRB-D5-AS MS-LRB-D6-AS MS-LRB-D7-AS MS-LRB-D5-AS-BD MS-LRB-D6-AS-BD	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8 Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8



	1		units MS4/6	lo · ··
Code	Size	1107	Туре	Description
	MS4	MS6		
Pressur	e regulat	or MS-L	RB	
07	1)	_	MS-LRB-D5-A8-AS	Pressure regulation range 0.3 4 bar, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
	-	1)	MS-LRB-D5-A4-AS	Pressure regulation range 0.3 4 bar, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
08	■ 1)	-	MS-LRB-D6-A8-AS	Pressure regulation range 0.3 7 bar, adapter plate for EN pressure gauge ½8 (without pressure gauge), standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
	-	1)	MS-LRB-D6-A4-AS	Pressure regulation range 0.3 7 bar, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
09	1)	-	MS-LRB-D7-A8-AS	Pressure regulation range 0.5 12 bar, adapter plate for EN pressure gauge 1/8 (without pressure gauge), standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
	_	1)	MS-LRB-D7-A4-AS	Pressure regulation range 0.5 12 bar, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
010	1)	1)	MS-LRB-D5-AD1-AS	Pressure regulation range 0.3 4 bar, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
011	■ 1)	1)	MS-LRB-D6-AD1-AS	Pressure regulation range 0.3 7 bar, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
012	■ 1)	1)	MS-LRB-D7-AD1-AS	Pressure regulation range 0.5 12 bar, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
013	■ 1)	1)	MS-LRB-D5-AD1-AS-BD	Pressure regulation range 0.3 4 bar, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8
014	1 1)	1)	MS-LRB-D6-AD1-AS-BD	Pressure regulation range 0.3 7 bar, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8
015	1 1)	1)	MS-LRB-D7-AD1-AS-BD	Pressure regulation range 0.5 12 bar, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8
016	■ 1)	1)	MS-LRB-D5-VS-KD-AS	Pressure regulation range 0.3 4 bar, cover plate, rotary knob underneath, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
017	1 1)	1 1)	MS-LRB-D6-VS-KD-AS	Pressure regulation range 0.3 7 bar, cover plate, rotary knob underneath, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
018	1 1)	1 1)	MS-LRB-D7-VS-KD-AS	Pressure regulation range 0.5 12 bar, cover plate, rotary knob underneath, standard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled outlet block
019	1)	1)	MS-LRB-D5-KD-AS-BD	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, rotary knob underneath, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8
020	■ 1)	1)	MS-LRB-D6-KD-AS-BD	Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, rotary knob underneath, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8
021	■ 1)	1)	MS-LRB-D7-KD-AS-BD	Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, rotary knob underneath, standard rotary knob with detent, lockable with accessories, pressure output to rear/front with angled outlet block QS-8



Overvie	Overview list – Service units MS4/6					
Code	Size		Туре	Description		
	MS4	MS6				
Pressure	e regulat	or MS-L	RB			
022	1)	1)	MS-LRB-D5-AD7-AS	Pressure regulation range 0.3 4 bar, pressure sensor with operational status indicator (plug M8,		
				threshold value comparator, PNP, N/O contact), standard rotary knob with detent, lockable with		
				accessories, pressure output to rear/front without angled outlet block		
023	1)	1)	MS-LRB-D6-AD7-AS	Pressure regulation range 0.3 7 bar, pressure sensor with operational status indicator (plug M8,		
				threshold value comparator, PNP, N/O contact), standard rotary knob with detent, lockable with		
				accessories, pressure output to rear/front without angled outlet block		
024	1)	1)	MS-LRB-D7-AD7-AS	Pressure regulation range 0.5 12 bar, pressure sensor with operational status indicator (plug M8,		
024	-	_	MS ERB BY NOT NO	threshold value comparator, PNP, N/O contact), standard rotary knob with detent, lockable with		
				accessories, pressure output to rear/front without angled outlet block		
025	1)	1)	MS-LRB-D5-AD7-AS-BD	Pressure regulation range 0.3 4 bar, pressure sensor with operational status indicator (plug M8,		
023	-		MS END DY NOT NO DD	threshold value comparator, PNP, N/O contact), standard rotary knob with detent, lockable with		
				accessories, pressure output to rear/front with angled outlet block QS-8		
026	1)	1)	MS-LRB-D6-AD7-AS-BD	Pressure regulation range 0.3 7 bar, pressure sensor with operational status indicator (plug M8,		
020		_ ′	M3-EKD-D0-AD7-A3-DD	threshold value comparator, PNP, N/O contact), standard rotary knob with detent, lockable with		
				accessories, pressure output to rear/front with angled outlet block QS-8		
027	1)	1)	MS-LRB-D7-AD7-AS-BD			
027	/	-/	חק-כא- / חא- / ח-מעז-כואו	Pressure regulation range 0.5 12 bar, pressure sensor with operational status indicator (plug M8, threshold value comparator, PNP, N/O contact), standard rotary knob with detent, lockable with		
020		1)	MC LDD DE VC DM3	accessories, pressure output to rear/front with angled outlet block QS-8		
028	-	1)	MS-LRB-D5-VS-DM2	Pressure regulation range 0.3 4 bar, cover plate, large rotary knob pressure gauge, pressure output		
020		1)	MC LDD D C VC DM2	to rear/front without angled outlet block		
029	-	1)	MS-LRB-D6-VS-DM2	Pressure regulation range 0.3 7 bar, cover plate, large rotary knob pressure gauge, pressure output		
000		_1)	MC I DD D = VC DMC	to rear/front without angled outlet block		
030	-	1)	MS-LRB-D7-VS-DM2	Pressure regulation range 0.5 12 bar, cover plate, large rotary knob pressure gauge, pressure		
	-1)			output to rear/front without angled outlet block		
031	1)	-	MS-LRB-D5-VS-DM1	Pressure regulation range 0.3 4 bar, cover plate, small rotary knob pressure gauge, pressure output		
022	1)		MC LDD D C VC DM4	to rear/front without angled outlet block		
032	= 1)	-	MS-LRB-D6-VS-DM1	Pressure regulation range 0.3 7 bar, cover plate, small rotary knob pressure gauge, pressure output		
000	-1)		MC I DD D = VC DM4	to rear/front without angled outlet block		
033	1)	-	MS-LRB-D7-VS-DM1	Pressure regulation range 0.5 12 bar, cover plate, small rotary knob pressure gauge, pressure		
001	-1)	-1)	MC LDD D F DC AC	output to rear/front without angled outlet block		
034	1)	1)	MS-LRB-D5-RG-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with red-green scale with outer		
				scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pres-		
	1)	1)		sure output to rear/front without angled outlet block		
035	1)	1)	MS-LRB-D6-RG-AS	Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with red-green scale with outer		
				scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pres-		
	4)	41		sure output to rear/front without angled outlet block		
036	1)	1)	MS-LRB-D7-RG-AS	Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with red-green scale with outer		
				scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pres-		
	4)	4)		sure output to rear/front without angled outlet block		
037	1)	1)	MS-LRB-D5-RG-AS-BD	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with red-green scale with outer		
				scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pres-		
	41	41		sure output to rear/front with angled outlet block QS-8		
038	1)	1)	MS-LRB-D6-RG-AS-BD	Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with red-green scale with outer		
				scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pres-		
				sure output to rear/front with angled outlet block QS-8		
039	1)	■ 1)	MS-LRB-D7-RG-AS-BD	Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with red-green scale with outer		
				scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories, pres-		
				sure output to rear/front with angled outlet block QS-8		
040	1)	1)	MS-LRB-D5-MPA-AS	Pressure regulation range 0.3 4 bar, integrated MS pressure gauge with outer scale in MPa, stand-		
				ard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled		
				outlet block		
041	1)	1)	MS-LRB-D6-MPA-AS	Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in MPa, stand-		
				ard rotary knob with detent, lockable with accessories, pressure output to rear/front without angled		
				outlet block		
1) Fema	le thread or	ıly with G1	/4 (MS4) or G ¹ / ₂ (MS6)	· · · · · · · · · · · · · · · · · · ·		



	1	CIVICE	units MS4/6	Description
Code	Size MS4	MS6	Туре	Description
Precisio	on pressur	e regu	lator MS-LRP	
P1	-	•	MS-LRP-D2-A8	Pressure regulation range 0.05 0.7 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent
P2	-	•	MS-LRP-D4-A8	Pressure regulation range 0.05 2.5 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent
P3	-		MS-LRP-D5-A8	Pressure regulation range 0.1 4 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent
P4	-		MS-LRP-D7-A8	Pressure regulation range 0.1 12 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent
Procisio	nn nraccur	ο τοσιι	lator MS-LRPB	
R1	- Picssul	■ 1)	MS-LRPB-D2-A8	Pressure regulation range 0.05 0.7 bar, adapter plate for EN pressure gauge 1/8 (without pressure
		-	2.11 5 52 710	gauge), standard rotary knob with detent, pressure output to rear/front without angled outlet block
R2	-	1)	MS-LRPB-D4-A8	Pressure regulation range 0.05 2.5 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, pressure output to rear/front without angled outlet block
R3	-	1)	MS-LRPB-D5-A8	Pressure regulation range 0.1 4 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, pressure output to rear/front without angled outlet block
R4	-	1)	MS-LRPB-D7-A8	Pressure regulation range 0.1 12 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, pressure output to rear/front without angled outlet block
R5	-	1)	MS-LRPB-D2-A8-BD	Pressure regulation range 0.05 0.7 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, pressure output to rear/front with angled outlet block QS-8
R6	-	1)	MS-LRPB-D4-A8-BD	Pressure regulation range 0.05 2.5 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, pressure output to rear/front with angled outlet block QS-8
R7	-	1)	MS-LRPB-D5-A8-BD	Pressure regulation range 0.1 4 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, pressure output to rear/front with angled outlet block QS-8
R8	-	1)	MS-LRPB-D7-A8-BD	Pressure regulation range 0.1 12 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, pressure output to rear/front with angled outlet block QS-8
R9	-	1)	MS-LRPB-D2-A8-BE	Pressure regulation range 0.05 0.7 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, pressure output to rear/front with angled outlet block
				QS-10
R10	-	1)	MS-LRPB-D4-A8-BE	Pressure regulation range 0.05 2.5 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, pressure output to rear/front with angled outlet block
		4)		Q\$-10
R11	-	1)	MS-LRPB-D5-A8-BE	Pressure regulation range 0.1 4 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, pressure output to rear/front with angled outlet block
	\perp	1)		Q\$-10
R12	-	■ 1)	MS-LRPB-D7-A8-BE	Pressure regulation range 0.1 12 bar, adapter plate for EN pressure gauge 1/8 (without pressure
				gauge), standard rotary knob with detent, pressure output to rear/front with angled outlet block
			/2 (MS6)	QS-10



Overvie	w list –	Service	units MS4/6	
Code	Size		Туре	Description
	MS4	MS6		
Electric	pressure	e regulat	tor MS-LRE (not with EX2/EX4 EU ce	ertification)
S1	_		MS-LRE-D6	Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi
S2	-	-	MS-LRE-D7	Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi
S3	-	•	MS-LRE-D6-PI	Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, electrical pressure output (integrated pressure sensor with current output, plug M8x1, 3-pin)
S4	-	•	MS-LRE-D7-PI	Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, electrical pressure output (integrated pressure sensor with current output, plug M8x1, 3-pin)
S5	-	•	MS-LRE-D6-PU	Pressure regulation range 0.3 7 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, electrical pressure output (integrated pressure sensor with voltage output, plug M8x1, 3-pin)
S6	-		MS-LRE-D7-PU	Pressure regulation range 0.5 12 bar, integrated MS pressure gauge with outer scale in bar and inner scale in psi, electrical pressure output (integrated pressure sensor with voltage output, plug M8x1, 3-pin)
Flow ser	isor SFA	M		
U5	-	•	SFAM-1000-M-2SA-M12	Flow measuring range 10 1,000 l/min, electrical output (2x PNP or NPN, 1 analogue output 4 20 mA), electrical connection (plug M12x1, 5-pin)
U6	-	•	SFAM-1000-M-2SV-M12	Flow measuring range 10 1,000 l/min, electrical output (2x PNP or NPN, 1 analogue output 0 10 V), electrical connection (plug M12x1, 5-pin)
U7	-	•	SFAM-3000-M-2SA-M12	Flow measuring range 30 3,000 l/min, electrical output (2x PNP or NPN, 1 analogue output 4 20 mA), electrical connection (plug M12x1, 5-pin)
U8	-	•	SFAM-3000-M-2SV-M12	Flow measuring range 30 3,000 l/min, electrical output (2x PNP or NPN, 1 analogue output 0 10 V), electrical connection (plug M12x1, 5-pin)
U9	-	•	SFAM-5000-M-2SA-M12	Flow measuring range 50 5,000 l/min, electrical output (2x PNP or NPN, 1 analogue output 4 20 mA), electrical connection (plug M12x1, 5-pin)
U10	-	•	SFAM-5000-M-2SV-M12	Flow measuring range 50 5,000 l/min, electrical output (2x PNP or NPN, 1 analogue output 0 10 V), electrical connection (plug M12x1, 5-pin)
C C .			L MC CH / L TH EVO /EV / EU	
	rt and ex		alve MS-SV (not with EX2/EX4 EU c	
V1	_	1)	MS-SV-E-10V24-SO-AG	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, open silencer, integrated MS pressure gauge with outer scale in bar and inner scale in psi, without multi-pin plug socket
V2	-	1)	MS-SV-E-10V24-AG	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, without silencer, integrated MS pressure gauge with outer scale in bar and inner scale in psi, without multi-pin plug socket
V3	-	1)	MS-SV-E-10V24-AD1	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, without silencer, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), without multi-pin plug socket
V4	-	1)	MS-SV-E-10V24-SO-AD1	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, open silencer, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), without multi-pin plug socket
V5	-	1 1)	MS-SV-E-10V24-SO-AG-MP1	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, open silencer, integrated MS pressure gauge with outer scale in bar and inner scale in psi, multi-pin plug socket (Sub-D, 9-pin, screw terminal, without cable, enable signals static)
V6	-	1 1)	MS-SV-E-10V24-AG-MP1	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, without silencer, integrated MS pressure gauge with outer scale in bar and inner scale in psi, multi-pin plug socket (Sub-D, 9-pin, screw terminal, without cable, enable signals static)
1) Femal	e thread o	nly with G ¹	/ ₂ (MS6)	



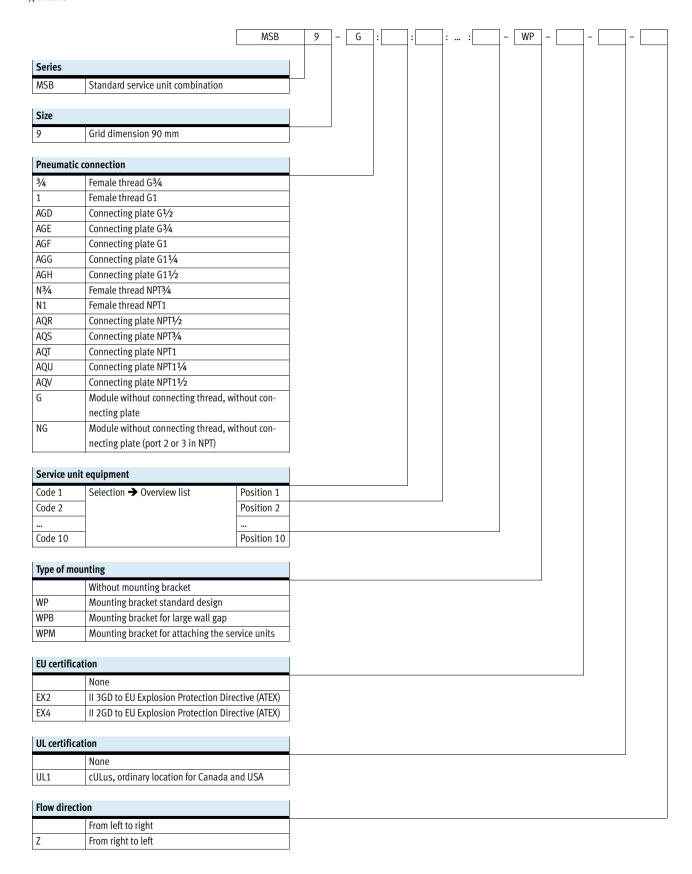
	1	service	units MS4/6	8
Code	Size		Туре	Description
	MS4	MS6		
Soft-sta	art and ex	haust v	alve MS-SV (not with EX2/EX4 EU o	ertification)
V7	-	1)	MS-SV-E-10V24-AD1-MP1	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, without silencer,
				pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), multi-pin plug socket
				(Sub-D, 9-pin, screw terminal, without cable, enable signals static)
V8	-	1)	MS-SV-E-10V24-SO-AD1-MP1	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, open silencer,
				pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), multi-pin plug socket
				(Sub-D, 9-pin, screw terminal, without cable, enable signals static)
V12	-	1)	MS-SV-C-10V24-S	Performance level "c", supply voltage 24 V DC, operating pressure 3 10 bar, electrical connection to
				EN 175301-803 (plug connector, 2-pin, type C), silencer, cover plate
V22	-	1)	MS-SV-C-10V24-S-AD7	Performance level "c", supply voltage 24 V DC, operating pressure 3 10 bar, electrical connection to
				EN 175301-803 (plug connector, 2-pin, type C), silencer, pressure sensor with operational status
				indicator (plug M8, threshold value comparator, PNP, N/O contact)
V27	-	1)	MS-SV-E-ASIS-AG	Performance level "e", supply voltage 22 31.6 V DC (AS-I Safety at Work, SPEC 3.0, Profile 7.5.5),
				operating pressure 3.5 10 bar, without silencer, integrated MS pressure gauge with outer scale in
				bar and inner scale in psi
V28	-	1)	MS-SV-E-ASIS-SO-AG	Performance level "e", supply voltage 22 31.6 V DC (AS-I Safety at Work, SPEC 3.0, Profile 7.5.5),
				operating pressure 3.5 10 bar, open silencer, integrated MS pressure gauge with outer scale in bar
				and inner scale in psi
V31	_	1)	MS-SV-E-10V24-SO-AG-MP3	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, open silencer,
				integrated MS pressure gauge with outer scale in bar and inner scale in psi, multi-pin plug socket
				(Sub-D, 9-pin, screw terminal, without cable, enable signals static, short-circuit detection possible)
V32	-	1)	MS-SV-E-10V24-AG-MP3	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, without silencer,
				integrated MS pressure gauge with outer scale in bar and inner scale in psi, multi-pin plug socket
				(Sub-D, 9-pin, screw terminal, without cable, enable signals static, short-circuit detection possible)
V33	-	1)	MS-SV-E-10V24-AD1-MP3	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, without silencer,
				pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), multi-pin plug socket
				(Sub-D, 9-pin, screw terminal, without cable, enable signals static, short-circuit detection possible)
V34	-	1)	MS-SV-E-10V24-SO-AD1-MP3	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, open silencer,
				pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), multi-pin plug socket
				(Sub-D, 9-pin, screw terminal, without cable, enable signals static, short-circuit detection possible)
V35	-	1)	MS-SV-C-10V24P-S	Performance level "c", supply voltage 24 V DC, operating pressure 3 10 bar, electrical connection to
				IEC 61076-2-101 (plug connector M12x1, 2-pin), silencer, cover plate
V36	-	1)	MS-SV-C-10V24P-S-AD7	Performance level "c", supply voltage 24 V DC, operating pressure 3 10 bar, electrical connection to
				IEC 61076-2-101 (plug connector M12x1, 2-pin), silencer, pressure sensor with operational status
				indicator (plug M8, threshold value comparator, PNP, N/O contact)
V37	-	1)	MS-SV-D-10V24-2M8	Performance level "d", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection
				to EN 175301-803 (2 x plug connectors, 2-pin, type C), 2 proximity sensors SMT with cable (plug
				connector M8x1, 3-pin, rotatable thread, cable length 0.3 m), without silencer, cover plate
V38	-	1)	MS-SV-D-10V24-2M8-SO-AG	Performance level "d", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection
				to EN 175301-803 (2 x plug connectors, 2-pin, type C), 2 proximity sensors SMT with cable (plug
				connector M8x1, 3-pin, rotatable thread, cable length 0.3 m), open silencer, integrated MS pressure
	1			gauge with outer scale in bar and inner scale in psi
1) Fema	ale thread or	l ly with G	1 4/2 (MS6)	1.5



Overvie	w list –	Service	units MS4/6	
Code	Size		Туре	Description
	MS4	MS6		
Soft-sta	irt and ex	khaust v	alve MS-SV (not with EX2/EX4 EU ce	rtification)
V39	-	1)	MS-SV-D-10V24P-2M12-SO-AG	Performance level "d", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to IEC 61076-2-101 (2 x plug connectors M12x1, 2-pin), 2 proximity sensors SMT with cable (plug connector M12x1, 3-pin, rotatable thread, cable length 0.3 m), open silencer, integrated MS pressure gauge with outer scale in bar and inner scale in psi
V40	-	1 1)	MS-SV-D-10V24P-20E-SO-AG	Performance level "d", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to IEC 61076-2-101 (2 x plug connectors M12x1, 2-pin), 2 proximity sensors SMT with cable (open end, 3-wire, cable length 5 m), open silencer, integrated MS pressure gauge with outer scale in bar and inner scale in psi
V41	-	1)	MS-SV-E-10V24-SO-AG-MP5	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, open silencer, integrated MS pressure gauge with outer scale in bar and inner scale in psi, multi-pin plug socket (Sub-D, 9-pin, screw terminal, without cable, enable signals static, galvanic isolation of the enable signals from the supply voltage)
V42	-	1)	MS-SV-E-10V24-AG-MP5	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, without silencer, integrated MS pressure gauge with outer scale in bar and inner scale in psi, multi-pin plug socket (Sub-D, 9-pin, screw terminal, without cable, enable signals static, galvanic isolation of the enable signals from the supply voltage)
V43	-	1)	MS-SV-E-10V24-AD1-MP5	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, without silencer, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), multi-pin plug socket (Sub-D, 9-pin, screw terminal, without cable, enable signals static, galvanic isolation of the enable signals from the supply voltage)
V44	-	1)	MS-SV-E-10V24-S0-AD1-MP5	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, open silencer, pressure sensor with LCD display (plug M8, 1 switching output PNP, 3-pin), multi-pin plug socket (Sub-D, 9-pin, screw terminal, without cable, enable signals static, galvanic isolation of the enable signals from the supply voltage)
V45	-	1)	MS-SV-E-10V24-RG	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, without silencer, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, without multi-pin plug socket, without multi-pin plug socket
V46	-	1)	MS-SV-E-10V24-SO-RG	Performance level "e", supply voltage 24 V DC, operating pressure 3.5 10 bar, open silencer, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, without multi-pin plug socket, without multi-pin plug socket
V47	-	1)	MS-SV-D-10V24-2M8-SO-RG	Performance level "d", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to EN 175301-803 (2 x plug connectors, 2-pin, type C), 2 proximity sensors SMT with cable (plug connector M8x1, 3-pin, rotatable thread, cable length 0.3 m), open silencer, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi
V48	-	1)	MS-SV-D-10V24P-2M12-SO-RG	Performance level "d", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to IEC 61076-2-101 (2 x plug connectors M12x1, 2-pin), 2 proximity sensors SMT with cable (plug connector M12x1, 3-pin, rotatable thread, cable length 0.3 m), open silencer, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi
V49	-	1)	MS-SV-D-10V24-20E-SO-RG	Performance level "d", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to EN 175301-803 (2 x plug connectors, 2-pin, type C), 2 proximity sensors SMT with cable (open end, 3-wire, cable length 5 m), open silencer, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi
1) Fema	ale thread o	nly with G	1/2 (MS6)	
Water s	eparator	MS-LWS		
W1	-		MS-LWS-U-V	Metal bowl, fully automatic condensate drain



Type codes





Overvie	w list – Service units MS9	
Code	Туре	Description
On-off v	alve MS-EM, manually actuated	
C2	MS-EM-S-VS	Silencer, cover plate
	1	The state of the s
On-off va	alve MS-EE, electrically actuated	
D4	MS-EE-V24-S-VS	Supply voltage 24 V DC, operating pressure 3.5 16 bar, electrical connection to EN 175301-803 (plug connector,
		type A), silencer, cover plate
D16	MS-EE-V24-S-AD7	Supply voltage 24 V DC, operating pressure 3.5 16 bar, electrical connection to EN 175301-803 (plug connector,
		type A), silencer, pressure sensor with operational status indicator (plug M8, threshold value comparator, PNP, N/O
		contact)
D17	MS-EE-V24P-S-VS	Supply voltage 24 V DC, operating pressure 3.5 16 bar, electrical connection to IEC 61076-2-101 (plug connector
		M12x1, 4-pin to DESINA), silencer, cover plate
D18	MS-EE-V24P-S-AD7	Supply voltage 24 V DC, operating pressure 3.5 16 bar, electrical connection to IEC 61076-2-101 (plug connector
		M12x1, 4-pin to DESINA), silencer, pressure sensor with operational status indicator (plug M8, threshold value com-
		parator, PNP, N/O contact)
Branchi	ng module MS-FRM	
F1	MS-FRM-VS	Cover plate
F3	MS-FRM-VS-Y	Cover plate, pressure switch PEV without display (plug socket, EN 175 301, type A, cube)
F8	MS-FRM-VS-M12	Cover plate, pressure switch PEV without display (plug socket, round, M12, 4-pin)
Filter MS	S-LF	
H5	MS-LF-CUM	Grade of filtration 5 µm, metal bowl, manual condensate drain
H6	MS-LF-CUV	Grade of filtration 5 µm, metal bowl, fully automatic condensate drain
H7	MS-LF-EUV	Grade of filtration 40 μm, metal bowl, fully automatic condensate drain
H8	MS-LF-EUM	Grade of filtration 40 μm, metal bowl, manual condensate drain
	l micro filter MS-LFM	
17	MS-LFM-BUV	Grade of filtration 1 μm, metal bowl, fully automatic condensate drain
18	MS-LFM-AUV	Grade of filtration 0.01 μm, metal bowl, fully automatic condensate drain
19	MS-LFM-BUV-DA	Grade of filtration 1 μm, metal bowl, fully automatic condensate drain, optical differential pressure indicator
l12	MS-LFM-AUV-DA	Grade of filtration 0.01 μm, metal bowl, fully automatic condensate drain, optical differential pressure indicator
123	MS-LFM-BUV-HF	Grade of filtration 1 μm, metal bowl, fully automatic condensate drain, high flow rate
124	MS-LFM-AUV-HF	Grade of filtration 0.01 μm, metal bowl, fully automatic condensate drain, high flow rate
125	MS-LFM-BUV-HF-DA	Grade of filtration 1 µm, metal bowl, fully automatic condensate drain, high flow rate, optical differential pressure
		indicator
126	MS-LFM-AUV-HF-DA	Grade of filtration 0.01 µm, metal bowl, fully automatic condensate drain, high flow rate, optical differential pressure
		indicator
Filtor v-	rulator MC LED	
	gulator MS-LFR	Droccure regulation range 0.2. They grade of filtration 40 cm matel head manual and another designation
J47	MS-LFR-D6-EUM-DI-AG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, metal bowl, manual condensate drain, directly
		actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi,
IFO	MC LED DO EIN/ DI AC AC	standard rotary knob with detent, lockable with accessories
J50	MS-LFR-D6-EUV-DI-AG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, metal bowl, fully automatic condensate drain,
		directly actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in
IF2	MC LED DC CHM DL AC AC	psi, standard rotary knob with detent, lockable with accessories
J53	MS-LFR-D6-CUM-DI-AG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, metal bowl, manual condensate drain, directly
		actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi,
1-4		standard rotary knob with detent, lockable with accessories
J56	MS-LFR-D6-CUV-DI-AG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 μm, metal bowl, fully automatic condensate drain, directly
		actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi,
		standard rotary knob with detent, lockable with accessories



Overview list – Service units MS9				
Code	Type	Description		
Filter r	egulator MS-LFR			
J59	MS-LFR-D6-EUM-AG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J62	MS-LFR-D6-EUV-AG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J65	MS-LFR-D6-CUM-AG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 μm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J68	MS-LFR-D6-CUV-AG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J71	MS-LFR-D7-CUM-AG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μ m, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J72	MS-LFR-D7-CUV-AG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μ m, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J73	MS-LFR-D7-EUM-AG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J74	MS-LFR-D7-EUV-AG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J103	MS-LFR-D7-EUM-RG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J104	MS-LFR-D7-EUV-RG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J105	MS-LFR-D7-CUM-RG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 µm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J106	MS-LFR-D7-CUV-RG-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 µm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J107	MS-LFR-D6-EUM-RG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J108	MS-LFR-D6-EUV-RG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J109	MS-LFR-D6-CUM-RG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		
J110	MS-LFR-D6-CUV-RG-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with red-green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories		



Overvie	ew list – Service units MS9	
Code	Туре	Description
Filter re	gulator MS-LFR	
J111	MS-LFR-D7-EUM-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J112	MS-LFR-D7-EUV-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 40 µm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J113	MS-LFR-D7-CUM-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 µm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J114	MS-LFR-D7-CUV-A4-AS	Pressure regulation range 0.5 12 bar, grade of filtration 5 μm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J115	MS-LFR-D6-EUM-A4-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J116	MS-LFR-D6-EUV-A4-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J117	MS-LFR-D6-CUM-A4-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J118	MS-LFR-D6-CUV-A4-AS	Pressure regulation range 0.3 7 bar, grade of filtration 5 µm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, adapter plate for EN pressure gauge 1/4 (without pressure gauge), standard rotary knob with detent, lockable with accessories
J122	MS-LFR-D6-EUM-AG-MPA-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, metal bowl, manual condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in MPa, standard rotary knob with detent, lockable with accessories
J123	MS-LFR-D6-EUV-AG-MPA-AS	Pressure regulation range 0.3 7 bar, grade of filtration 40 µm, metal bowl, fully automatic condensate drain, pilot actuated filter diaphragm regulator, integrated MS pressure gauge with outer scale in MPa, standard rotary knob with detent, lockable with accessories
A 11 1	I Ch MC LEV	
	ed carbon filter MS-LFX	Matal havil
L2	MS-LFX-U	Metal bowl
Lubrica	tor MS-LOE (not with EX2/EX4 EU ce	ertification)
	MS-LOE-U	
Pressur	re regulator MS-LR	
N1	MS-LR-D5-DI-AG-AS	Pressure regulation range 0.3 4 bar, directly actuated diaphragm regulator, integrated MS pressure gauge with
		outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
N2	MS-LR-D6-DI-AG-AS	Pressure regulation range 0.3 7 bar, directly actuated diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
N7	MS-LR-D5-DI-AG-KD-AS	Pressure regulation range 0.3 4 bar, directly actuated diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi, rotary knob underneath, standard rotary knob with detent, lockable with accessories
N8	MS-LR-D6-DI-AG-KD-AS	Pressure regulation range 0.3 7 bar, directly actuated diaphragm regulator, integrated MS pressure gauge with outer scale in bar and inner scale in psi, rotary knob underneath, standard rotary knob with detent, lockable with accessories



Code	Туре	Description
Pressur	e regulator MS-LR	
N35	MS-LR-D5-AG-AS	Pressure regulation range 0.3 4 bar, pilot actuated diaphragm regulator, integrated MS pressure gauge with outer
		scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
N36	MS-LR-D6-AG-AS	Pressure regulation range 0.3 7 bar, pilot actuated diaphragm regulator, integrated MS pressure gauge with outer
,0	mo En So no no	scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
N37	MS-LR-D7-AG-AS	Pressure regulation range 0.5 12 bar, pilot actuated diaphragm regulator, integrated MS pressure gauge with oute
		scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
N53	MS-LR-D5-RG-AS	Pressure regulation range 0.3 4 bar, pilot actuated diaphragm regulator, integrated MS pressure gauge with red-
		green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
N54	MS-LR-D6-RG-AS	Pressure regulation range 0.3 7 bar, pilot actuated diaphragm regulator, integrated MS pressure gauge with red-
		green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with accessories
N55	MS-LR-D7-RG-AS	Pressure regulation range 0.5 12 bar, pilot actuated diaphragm regulator, integrated MS pressure gauge with
		red-green scale with outer scale in bar and inner scale in psi, standard rotary knob with detent, lockable with
		accessories
N56	MS-LR-D5-A4-AS	Pressure regulation range 0.3 4 bar, pilot actuated diaphragm regulator, adapter plate for EN pressure gauge 1/4
		(without pressure gauge), standard rotary knob with detent, lockable with accessories
N57	MS-LR-D6-A4-AS	Pressure regulation range 0.3 7 bar, pilot actuated diaphragm regulator, adapter plate for EN pressure gauge 1/4
		(without pressure gauge), standard rotary knob with detent, lockable with accessories
N58	MS-LR-D7-A4-AS	Pressure regulation range 0.5 12 bar, pilot actuated diaphragm regulator, adapter plate for EN pressure gauge 1/4
		(without pressure gauge), standard rotary knob with detent, lockable with accessories
N61	MS-LR-D6-AG-MPA-AS	Pressure regulation range 0.3 7 bar, pilot actuated diaphragm regulator, integrated MS pressure gauge with outer
		scale in MPa, standard rotary knob with detent, lockable with accessories
U10	SFAM-5000L-M-2SV-M12	connection (plug M12x1, 5-pin) Flow measuring range 50 5,000 l/min, electrical output (2x PNP or NPN, 1 analogue output 0 10 V), electrical
		connection (plug M12x1, 5-pin)
U11	SFAM-10000L-M-2SA-M12	Flow measuring range 100 10,000 l/min, electrical output (2x PNP or NPN, 1 analogue output 4 20 mA),
		electrical connection (plug M12x1, 5-pin)
U12	SFAM-10000L-M-2SV-M12	Flow measuring range 100 10,000 l/min, electrical output (2x PNP or NPN, 1 analogue output 0 10 V), electrical
		connection (plug M12x1, 5-pin)
U13	SFAM-15000L-M-2SA-M12	Flow measuring range 150 15,000 l/min, electrical output (2x PNP or NPN, 1 analogue output 4 20 mA),
		electrical connection (plug M12x1, 5-pin)
U14	SFAM-15000L-M-2SV-M12	Flow measuring range 150 15,000 l/min, electrical output (2x PNP or NPN, 1 analogue output 0 10 V), electrical
		connection (plug M12x1, 5-pin)
	art/quick exhaust valve MS-SV (not	
V12	MS-SV-C-V24-S-VS	Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 16 bar, electrical connection to
		EN 175301-803 (plug connector, type A), silencer, cover plate
	MS-SV-C-V24-S-AD7	Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 16 bar, electrical connection to
V22	1113 37 6 724 3 7157	
V22	MS 37 C 724 3 ND7	EN 175301-803 (plug connector, type A), silencer, pressure sensor with operational status indicator (plug M8,
		threshold value comparator, PNP, N/O contact)
	MS-SV-C-10V24P-S-VS	threshold value comparator, PNP, N/O contact) Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to
V35	MS-SV-C-10V24P-S-VS	threshold value comparator, PNP, N/O contact) Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to IEC 61076-2-101 (plug connector M12x1, 4-pin to DESINA), silencer, cover plate
V35		threshold value comparator, PNP, N/O contact) Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to IEC 61076-2-101 (plug connector M12x1, 4-pin to DESINA), silencer, cover plate Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to
V35	MS-SV-C-10V24P-S-VS	threshold value comparator, PNP, N/O contact) Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to IEC 61076-2-101 (plug connector M12x1, 4-pin to DESINA), silencer, cover plate Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to IEC 61076-2-101 (plug connector M12x1, 4-pin to DESINA), silencer, pressure sensor with operational status indic-
V22 V35 V36	MS-SV-C-10V24P-S-VS	threshold value comparator, PNP, N/O contact) Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to IEC 61076-2-101 (plug connector M12x1, 4-pin to DESINA), silencer, cover plate Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to
V35 V36	MS-SV-C-10V24P-S-VS	threshold value comparator, PNP, N/O contact) Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to IEC 61076-2-101 (plug connector M12x1, 4-pin to DESINA), silencer, cover plate Performance Level "c", supply voltage 24 V DC, operating pressure 3.5 10 bar, electrical connection to IEC 61076-2-101 (plug connector M12x1, 4-pin to DESINA), silencer, pressure sensor with operational status indic-