

Water separators MS6N-LWS

FESTO



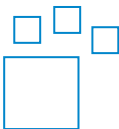
Characteristics

At a glance

- The water separator removes condensate from the compressed air.
- Constantly high condensate separation (99%) up to the maximum flow rate
 - Bowl guard tanks to integrated metal bowl.
 - Available with fully automatic or fully automatic, electrically actuated condensate drain

Ordering data - modular system

Link [ms6n-lws](#)



Configurable product
This product and all its product options can be ordered online via the configurator.

Function

[LWS] Water separator

Centrifugal separation.

Pneumatic connection

By installing connecting plates it is easier to replace the module if necessary (e.g. when using piping).

Condensate drain

The condensate is drained by a fully automatic condensate drain valve with float actuation or a fully automatic electric condensate drain valve.

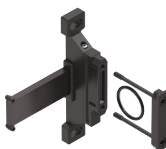
Type of mounting

[WP] Mounting bracket basic design



- For wall mounting a single device or a service unit combination

[WPM] Mounting bracket for hooking in service unit components



- For wall mounting a single device or a service unit combination

[WB] Mounting centrally at rear (wall mounting top and bottom), connecting plates not required



- For wall mounting an individual device

Flow direction

Available with flow in the opposite direction.

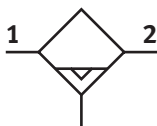
Type code

001	Series	
MS	MS series	
002	Size	
6	Grid dimension 62 mm	
003	Thread type	
N	NPT thread	
004	Function	
LWS	Water separator	
005	Pneumatic connection, inch	
1/4	Female thread NPT 1/4	
3/8	Female thread NPT 3/8	
1/2	Female thread NPT 1/2	
AQN	Sub-base NPT1/4	
AQP	Sub-base NPT3/8	
AQR	Sub-base NPT1/2	
AQS	Sub-base NPT3/4	

006	Bowl type	
U	Aluminium	
007	Condensate drain	
E2	External fully automatic condensate drain, electric, 110 V AC, terminals	
E3	External fully automatic condensate drain, electric, 230 V AC, terminals	
E4	External fully automatic condensate drain, electric, 24 V DC, terminals	
V	Automatic	
VC	Fully automatic, normally closed	
008	Type of mounting	
	Without mounting bracket	
WB	Mounting centrally at rear (wall mounting top and bottom), connecting plates not required	
WP	Mounting bracket basic design	
WPM	Mounting bracket for hooking in service unit components	
009	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Datasheet

General technical data



Pneumatic connection, port 1	1/4 NPT	3/8 NPT	1/2 NPT
Pneumatic connection, port 2	1/4 NPT	3/8 NPT	1/2 NPT
Size	6		
Design	Centrifugal separator		
Type of mounting	Either: Inline installation With accessories		
Mounting position	Vertical +/-5°		
Air purity class at output ¹⁾	Compressed air to ISO 8573-1:2010 [7:7:4]		
Bowl guard	Integrated as metal bowl		
Condensate drain	Fully automatic		
Degree of condensate separation	99%		
Max. condensate volume	38 ml		

1) with variant E2, E3 or E4: [-:7:4]

Standard nominal flow rate q_{pn}

Pneumatic connection, port 1	1/4 NPT	3/8 NPT	1/2 NPT
Standard nominal flow rate (standardised to DIN 1343)	2,400 l/min	3,500 l/min	3,800 l/min

Operating and environmental conditions – fully automatic condensate drain [V]

Condensate drain	Fully automatic
Operating pressure	2 ... 12 bar
Operating medium ¹⁾	Compressed air to ISO 8573-1:2010 [7:-:-] Inert gas
Ambient temperature	-10 ... 60°C
Media temperature	-10 ... 60°C
Corrosion resistance class CRC ²⁾	2 - Moderate corrosion stress
Suitable for use with food ³⁾	See supplementary material information

1) Compressed air according to ISO 8573-1:2010 [7:9:-] applies to fully automatic condensate drain

2) More information: www.festo.com/x/topic/crc

3) More information www.festo.com/catalogue/ms6-lws → Support/Downloads.

Operating and environmental conditions – fully automatic, electrically controlled condensate drain [E2], [E3], [E4]

Condensate drain	Fully automatic, Fully automatic, electrically actuated, Manual, non-detenting
Operating pressure	0.8 ... 16 bar
Operating medium ¹⁾	Compressed air to ISO 8573-1:2010 [-:-:-] Compressed air to ISO 8573-1:2010 [7:-:-] Inert gas
Ambient temperature	-10 ... 60°C
Media temperature	-10 ... 60°C
Corrosion resistance class CRC ²⁾	2 - Moderate corrosion stress
Suitable for use with food ³⁾	See supplementary material information
Approval ⁴⁾	c UL us - Recognised (Oil)

1) Compressed air according to ISO 8573-1:2010 [7:9:-] applies to fully automatic condensate drain

2) More information: www.festo.com/x/topic/crc

3) More information www.festo.com/catalogue/ms6-lws → Support/Downloads.

4) More information www.festo.com/catalogue/ms6-lws → Support/Downloads.

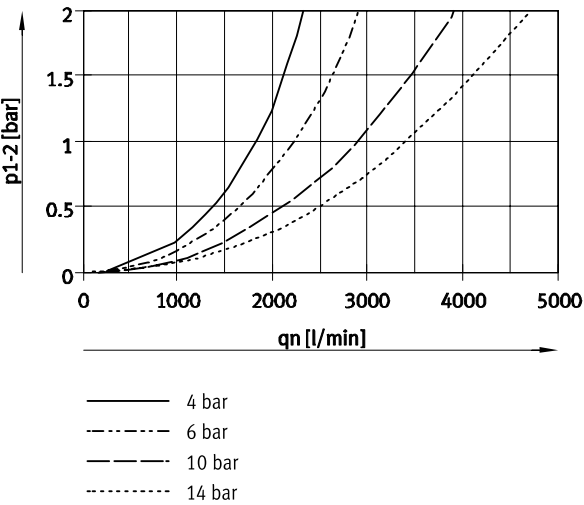
Datasheet

Weight	
Product weight ¹⁾	820 g

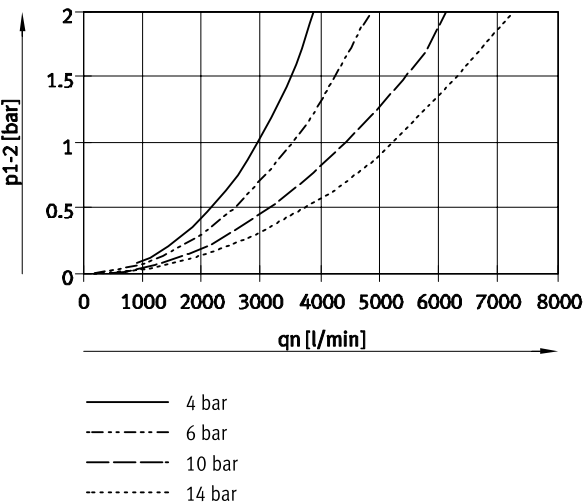
1) Water separator with electrically actuated condensate drain, fully automatic [E2], [E3], [E4]: 1800 g

Materials	
Material housing	Die-cast aluminium
Material bowl	Wrought aluminium alloy
Material screen	Process automation
Material seals	NBR
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Standard flow rate qn as a function of differential pressure p1-2 – pneumatic connection G1/4, NPT1/4

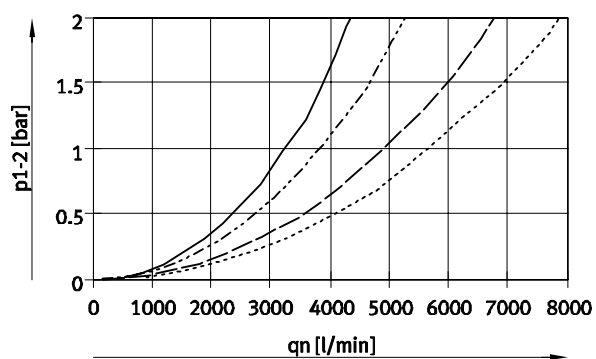


Standard flow rate qn as a function of differential pressure p1-2 – pneumatic connection G3/8, NPT3/8



Datasheet

Standard flow rate q_n as a function of differential pressure p_{1-2} – pneumatic connection G1/2, NPT1/2

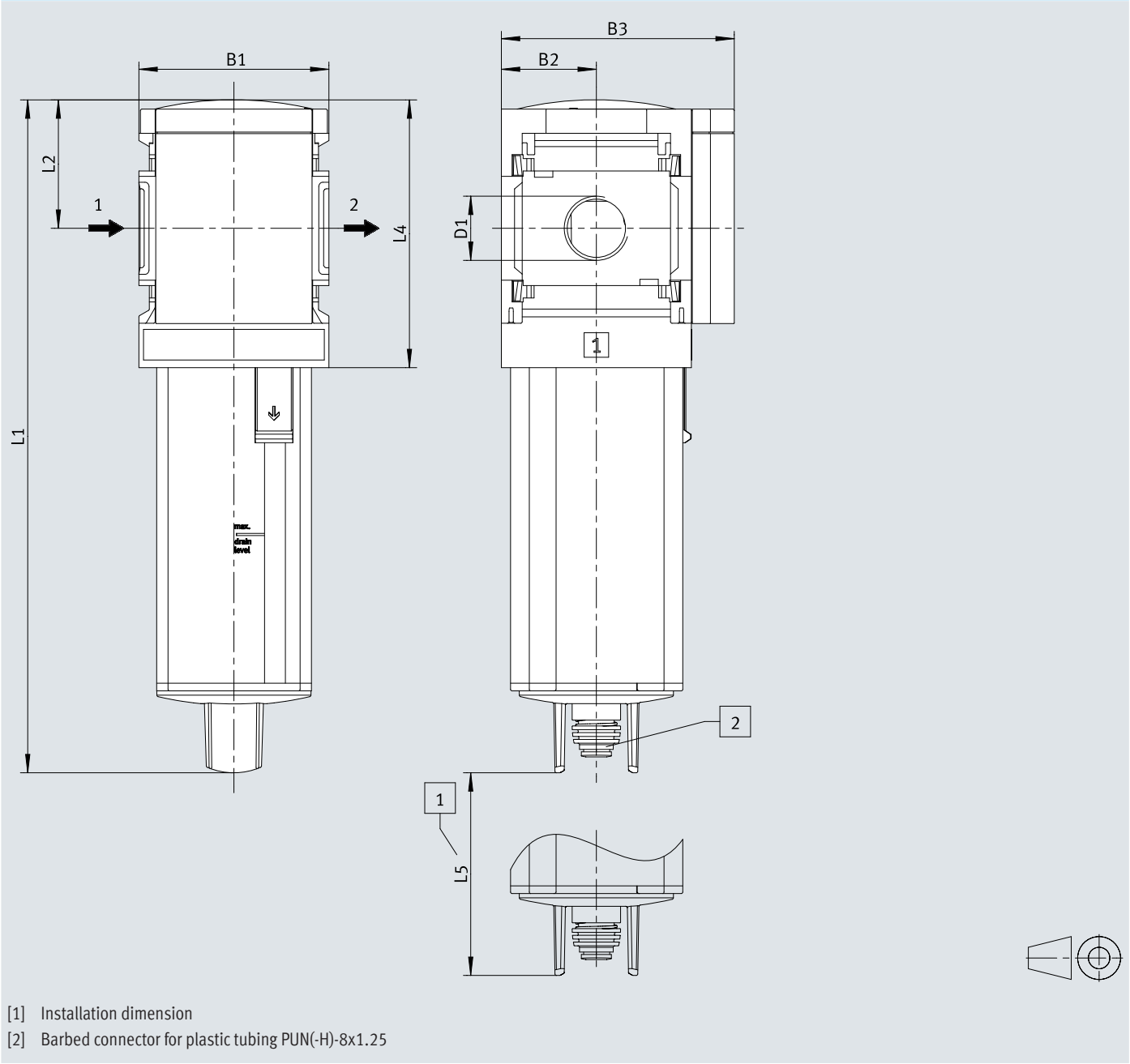


- 4 bar
- - - 6 bar
- - - 10 bar
- 14 bar

Dimensions

Dimensions – [V] Condensate drain, fully automatic

Download CAD data www.festo.com

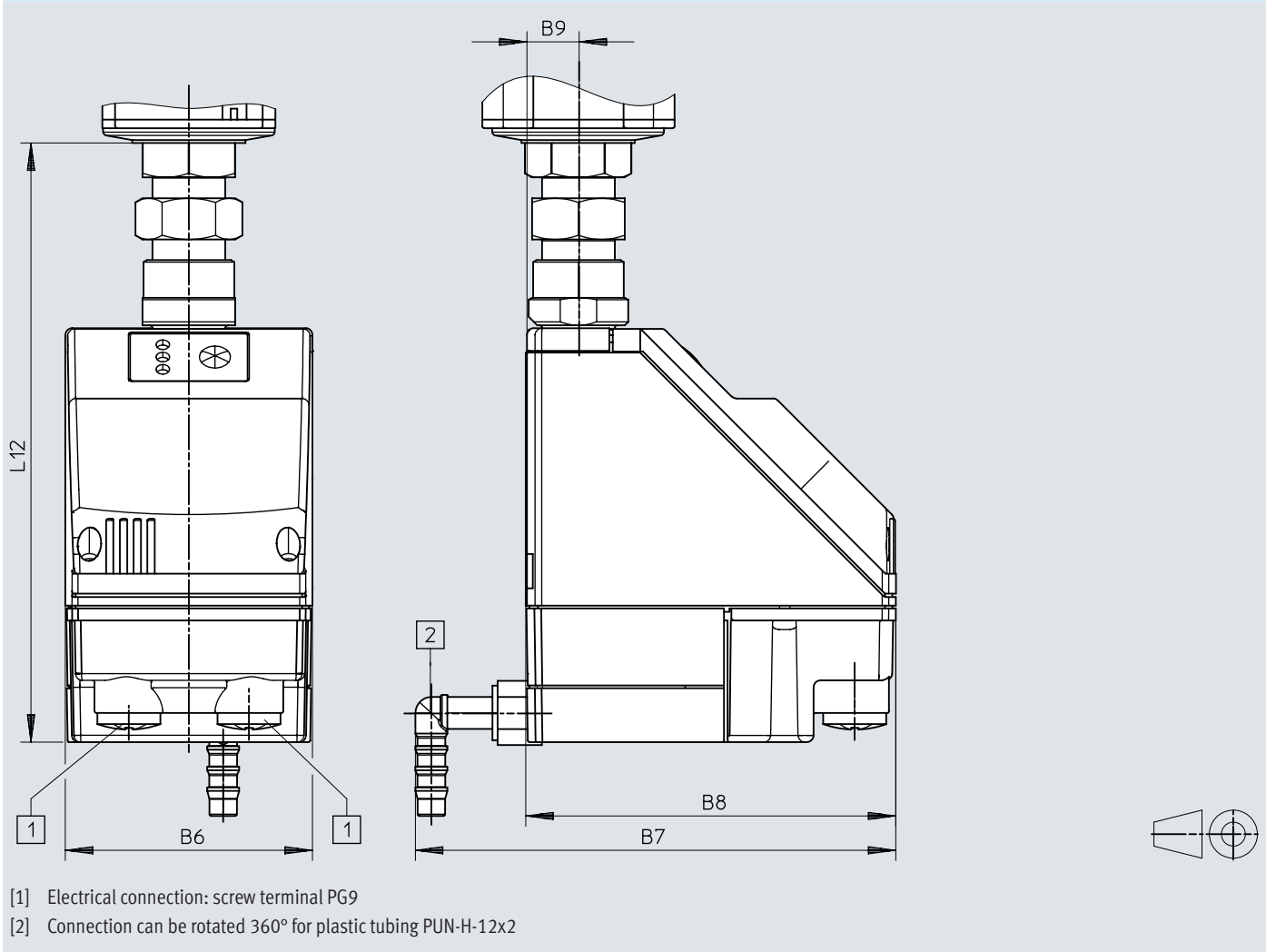


	B1 [inch]	B2 [inch]	B3 [inch]	D1	L1 [inch]	L2 [inch]	L4 [inch]	L5 [inch]
MS6N-LWS-1/4-...-V	2,44	1,22	2,99	1/4 NPT	8,66	1,65	3,46	2,52
MS6N-LWS-3/8-...-V				3/8 NPT				
MS6N-LWS-1/2-...-V				1/2 NPT				

1) Note: This product complies with ISO 1179-1 and ISO 228-1.

Dimensions

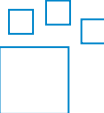
Dimensions – [E2]/[E3]/[E4] Fully automatic, electrically actuated Download CAD data www.festo.com



	B6 [inch]	B7 [inch]	B8 [inch]	B9 [inch]	L12 [inch]
MS6N-LWS-...-E2/E3/E4	2,83	5,51	4,25	0,59	6,87

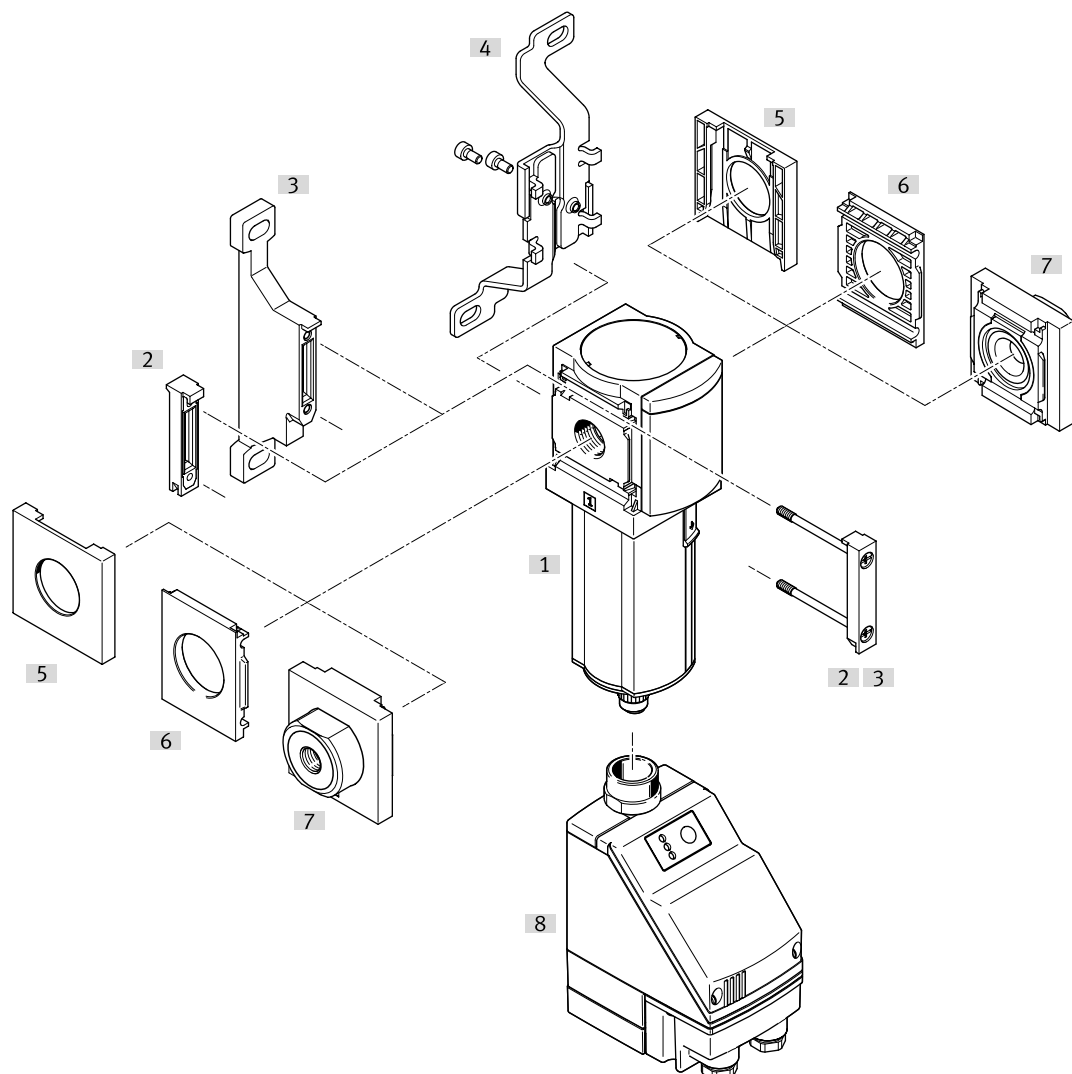
Ordering data

Ordering data						
	Size	Pneumatic connection, port 1	Condensate drain	Product weight	Part no.	Type
	6	1/4 NPT	Fully automatic	820 g	564871	MS6N-LWS-1/4-U-V
		3/8 NPT			564872	MS6N-LWS-3/8-U-V
		1/2 NPT			564873	MS6N-LWS-1/2-U-V

Ordering data – Modular product system			
	Short type code	Part no.	Type
	MS6N-LWS	564898	MS6N-LWS

Peripherals

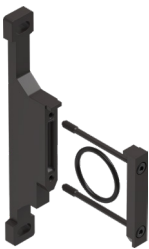
Peripherals overview



Accessories		→ Link
Type/order code	Description	
[1] Water separator MS6N-LWS		ms6n-lws
[2] Module connector MS6-MV		11
[3] Mounting bracket MS6-WP	Order code [WP]	11
[3] Mounting bracket MS6-WPB	Without illustration	11
[3] Mounting bracket MS6-WPE	Without illustration	11
[3] Mounting bracket MS6-WPM	Without illustration	11
[4] Mounting bracket MS6-WB	Order code [WB]	11
[5] Cover cap MS6-END		11
[6] Mounting plate MS6-AEND	Module connector MS4/6-MV [2] or mounting bracket MS4-WP, WPB, WPE, WPM [3] is required for mounting.	11
[7] Connecting plate MS6-AQ...	Order code [AG...], [AQ...]; module connector MS6-MV1 [2] or mounting bracket MS6-WP, WPB, WPE, WPM [3] is required for mounting.	12
[8] Condensate drain, fully automatic, electrically controlled PWEA	Order code [E2], [E3], [E4]	ms6n-lws

Accessories

Module connector MS6-MV1			
	Size	Part no.	Type
	6	8119204	MS6-MV1

Mounting bracket MS6-WP...			
	Size	Part no.	Type
	6	532195	MS6-WP
		532186	MS6-WPM-2D
		526073	MS6-WPM-D
		526074	MS6-WPB

Mounting bracket MS6-WB			
	Size	Part no.	Type
	6	532196	MS6-WB

Cover cap MS6-END			
	Size	Part no.	Type
	6	538780	MS6-END

Mounting plate MS6-AEND			
	Size	Part no.	Type
	6	535408	MS6-AEND1

Accessories

Connecting plate-SET MS6-AQ...						
	Size	Pneumatic con- nection, port 1	Pneumatic con- nection, port 2	Product weight	Part no.	Type
	6	1/4 NPT	1/4 NPT	300 g	526076	MS6N-AQN
		3/8 NPT	3/8 NPT		526077	MS6N-AQP
		1/2 NPT	1/2 NPT		526078	MS6N-AQR
		3/4 NPT	3/4 NPT		526079	MS6N-AQS