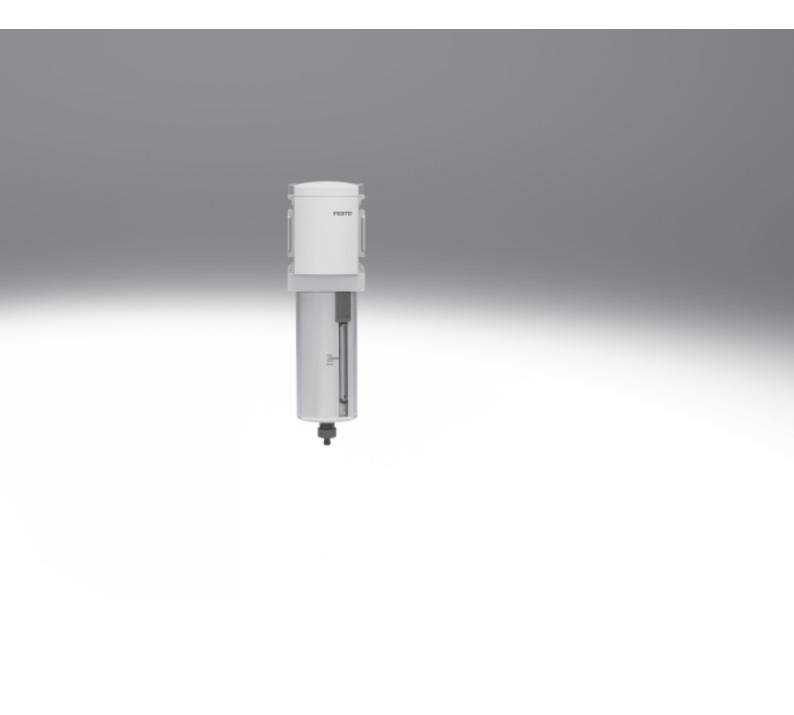
Water separators MS-LWS, MS series, NPT

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Water separators MS6N-LWS, MS series, NPT Peripherals overview



Water separator MS6N-LWS

4



Additional accessories:

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

	ting attachments and accessories	Individual device		Combination	→ Page/Internet	
		Without connecting	With connecting		With connecting	- Tuge/memer
		plate	plate	plate	plate	
l.	Cover cap			_		ms6-end
	MS6-END	_	_	-	_	
2	Mounting plate	1)	_	1)	_	ms6-aend
	MS6-AEND	- /	_	_ ′	_	
3	Connecting plate	_	1)	_	1)	ms6n-aq
	MS6N-AQ					
į	Mounting bracket	_		_	_	ms6-wb
	MS6-WB	_	_		_	
5	Module connector	_			_	ms6-mv
	MS6-MV		_	_	_	
5	Mounting bracket	_	_		_	ms6-wp
	MS6-WP	_	_	_	-	
	Mounting bracket (not illustrated)		•			ms6-wp
	MS6-WPB/WPE/WPM	•	_	_	•	
7	Fully automatic, electrically actuated	_	_	_	_	7
	condensate drain E1 E4	•	•	•	•	

5/6

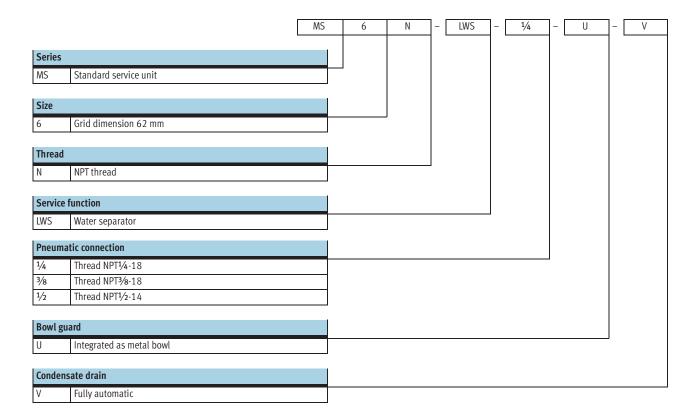
¹⁾ Module connector MS6-MV 5 or mounting bracket MS6-WP/WPB/WPE/WPM 6 is required for mounting.

Water separators MS6N-LWS, MS series, NPT

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3

Type codes



Further variants can be ordered using the modular system → 7

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

Water separators MS6N-LWS, MS series, NPT Technical data

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Condensate drain, fully automatic



Flow rate

2,400 ... 3,800 l/min

Temperature range

+1 ... +60 °C

Supply pressure 0.8 ... 16 bar



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

- Constantly high condensate separation (99%) up to the maximum flow rate
- Metal bowl

• Available with fully automatic or fully automatic, electrically actuated condensate drain

General technical data												
Size	MS6	MS6										
Pneumatic connection 1, 2	NPT1/4-18	NPT ¹ / ₄ -18 NPT ³ / ₈ -18 NPT ¹ / ₂ -14 NPT ¹ / ₄ -1 (with cor										
Constructional design	Centrifugal separato	Centrifugal separator										
Type of mounting	Via accessories	Via accessories										
	In-line installation	In-line installation										
Mounting position	Vertical ±5°	Vertical ±5°										
Air purity class at the output	7 to DIN ISO 85	7 to DIN ISO 8573-1										
Bowl guard	Integrated as metal	Integrated as metal bowl										
Condensate drain	Fully automatic	Fully automatic										
	Fully automatic, elec	Fully automatic, electrically actuated										
Degree of condensate [%] separation	99	99										
Max. condensate volume [ml]	38	38										

Standard nominal flow rate qnN ¹⁾										
Size		MS6								
Pneumatic connection		NPT ¹ / ₄ -18	NPT3/8-18	NPT ¹ /2-14						
qnN [l,	/min]	2,400	3,500	3,800						

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

Operating and environment	al conditions							
Condensate drain		Fully automatic	Fully automatic, electrically actuated					
		V	E1 E4					
Size		MS6	MS6					
Supply pressure	[bar]	2 12	0.8 16					
Operating medium		Compressed air						
Ambient temperature	[°C]	+5 +60	+1 +60					
Temperature of medium	[°C]	+5 +60	+1 +60					
Storage temperature	[°C]	-10 +60	+1 +60					
Corrosion resistance class	CRC ¹⁾	2						

¹⁾ Corrosion resistance class 2 to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or

Water separators MS6N-LWS, MS series, NPT

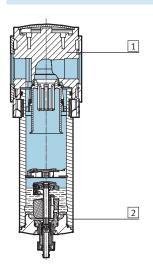


Technical data

Weight [g]	
Size	MS6
Water separator	820
Water separator with fully automatic,	1,800
electrically actuated condensate drain	
E1 E4	

Materials

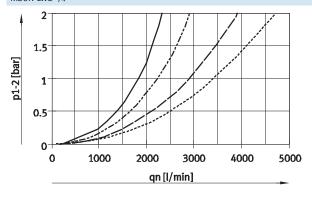
Sectional view

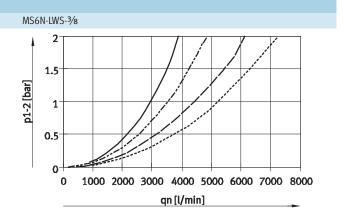


Water separator	
1 Housing	Die-cast aluminium
2 Bowl	Wrought aluminium alloy
Inspection window	PA
- Seals	NBR
Note on materials	Free of copper and PTFE
	RoHS-compliant (not with variant
	E1, E2, E3 or E4)

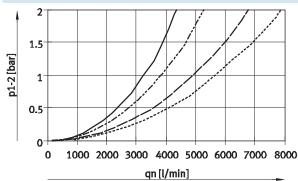
Standard flow rate qn as a function of differential pressure p1-2

MS6N-LWS-1/4





MS6N-LWS-1/2

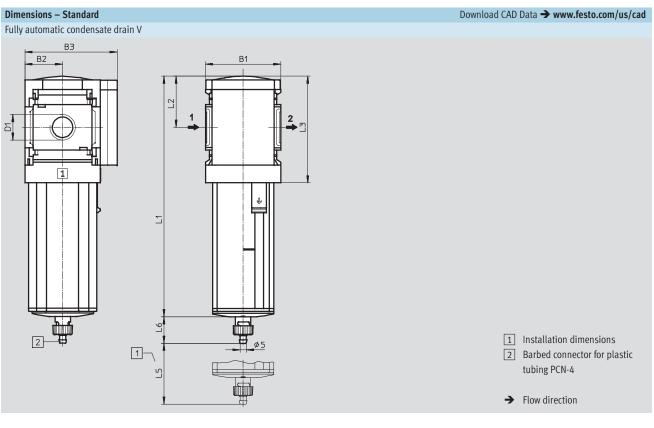


4 bar
6 bar
10 bar

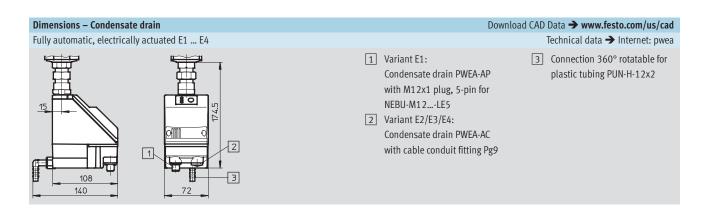
Water separators MS6N-LWS, MS series, NPT

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Technical data



Туре	B1	B2	В3	D1	L1	L2	L3	L5	L6
MS6N-LWS-1/4V				NPT1/4-18					
MS6N-LWS-3/8V	62	31	76	NPT3/8-18	198	42	87	68	22
MS6N-LWS-1/2V				NPT1/2-14					



Ordering data	Ordering data										
Size	Condensate drain	Connection	Part No.	Туре							
Integrated as r	Integrated as metal bowl										
MS6	Fully automatic	NPT1/4-18	564871	MS6N-LWS-1/4-U-V							
		NPT3/8-18	564872	MS6N-LWS-3/8-U-V							
		NPT ¹ /2-14	564873	MS6N-LWS-1/2-U-V							

Water separators MS6N-LWS, MS series, NPT Ordering data – Modular products



M Mandatory	Mandatory data												O Options				
Module No.	Series	Size	Thread		Function		Connection size		Bowl guard		Condensate drain	1	Type of mounting		Alternative flow direction		
564898	MS	6	N		LWS		1/4, 3/8, 1/2, AQN, AQP, AQR, AQS		U		V, E1, E2, E3,		WP, WPM, WB		Z		
Ordering example																	
564898	MS	6	N	-	LWS	_	AQN	_	U	_	V	-	WP	-	Z		

Ordering table				
Grid dimension [n	nm] 62	Condi-	Code	Enter
		tions		code
M Module No.	564898			
Series	Standard		MS	MS
Size	6		6	6
Thread	NPT thread		N	N
Function	Water separator		-LWS	-LWS
Connection size	Thread NPT ¹ / ₄		-1/4	
	Thread NPT3/8		-3/8	
	Thread NPT1/2		-1/2	
	Connecting plate NPT1/4		-AQN	
	Connecting plate NPT3/8		-AQP	
	Connecting plate NPT1/2		-AQR	
	Connecting plate NPT3/4		-AQS	
Bowl guard	Metal bowl		-U	-U
Condensate drain	Fully automatic (P1 max. 12 bar)		-V	
	External fully automatic condensate drain, electrical, 24 V DC,		-E1	
	M12 (P1 max. 16 bar)			
	External fully automatic condensate drain, electrical, 110 V AC,		-E2	
	terminals (P1 max. 16 bar)			
	External fully automatic condensate drain, electrical, 230 V AC,		-E3	
	terminals (P1 max. 16 bar)			
	External fully automatic condensate drain, electrical, 24 V DC,		-E4	
	terminals (P1 max. 16 bar)			
O Type of mounting	Mounting bracket	1	-WP	
	Mounting bracket	1	-WPM	
	Mounting bracket		-WB	
Alternative flow direction	Flow direction from right to left		-Z	

WP, WPM Only with connecting plate AQN, AQP, AQR or AQS

Transfer order	cod	е											
564898		MS	6	N] –	LWS	_	-	-U	-	-	-	

Product Range and Company Overview

A Complete Suite of Automation Services

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



Custom Automation Components Complete custom engineered solutions



Custom Control Cabinets Comprehensive engineering support and on-site services



Complete Systems Shipment, stocking and storage services

The Broadest Range of Automation Components

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



Electromechanical Electromechanical actuators, motors, controllers & drives



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



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

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

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

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

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



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