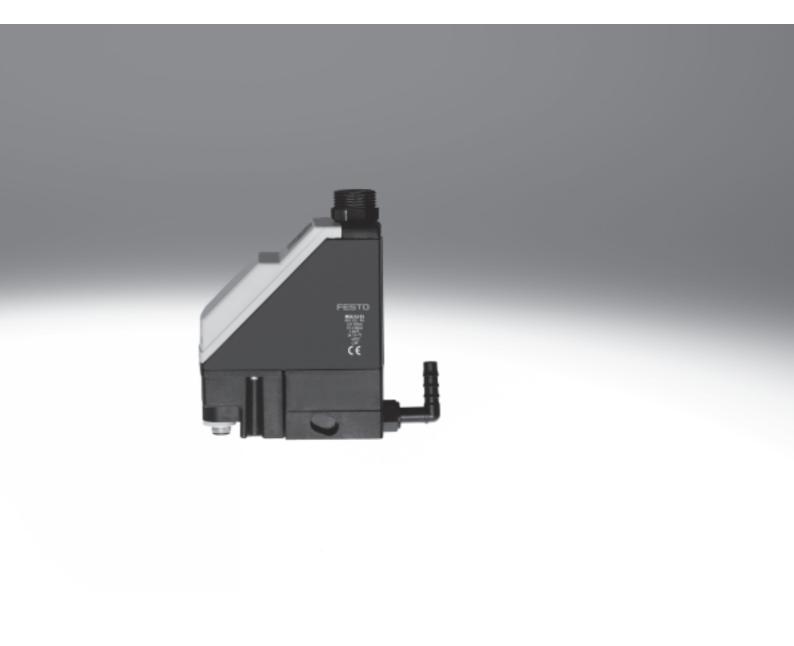
Condensate drains WA/PWEA



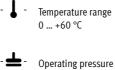


Condensate drains WA

Technical data

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Function



1.5 ... 16 bar



- 🎍 - Note

In order to close, the automatic condensate drain WA-2 requires a flow rate of 125 l/min; this sets in at approx. 1.5 bar. For attachment to service units and compressed air networks/systems. Condensate present in the compressed air is separated in suitable filters. The condensate that accumulates must be emptied from time to time, as otherwise it would be drawn in and could lead to faults in the downstream elements. The devices shown perform this task automatically. They contain a float which opens when a certain condensate level is achieved. The accumulated condensate is then emptied.

With an additional, installed manual override, condensate emptying can also be performed manually.

- Automatic emptying after the max. fill level has been reached
- Automatic emptying after the operating pressure p < 0.5 bar is switched off
- Manual actuation during operation is possible

General technical data					
Туре	WA-1-B WA-2				
Pneumatic connection	M9	M9			
Condensate drain connection	G1⁄4	РК-4			
Design	External, mechanically-operated, fully automatic condensate drain valve				
Measured variable	Filling level				
Type of mounting	In-line installation	In-line installation			
Mounting position	Vertical, ±10° Vertical, ±5°				
Valve function	2/2-valve, closed, monostable 2/2-valve, open, monostable				
Manual override facility	Non-detenting				

Operating and environmental conditions				
Туре		WA-1-B	WA-2	
Operating pressure	[bar]	4 16	1.5 14	
Operating medium		Water		
Ambient temperature	[°C]	0 +60	0 +50	
Temperature of medium	[°C]	0 +60	0 +50	
Storage temperature	[°C]	-20 +60	-20 +60	
Corrosion resistance class (CRC ¹⁾	2		

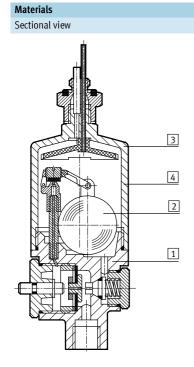
1) Corrosion resistance class 2 according to Festo standard 940 070

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

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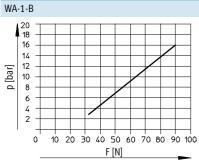
Condensate drains WA

Technical data

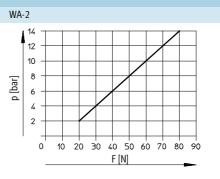


Condensate drain	WA-1-B	WA-2
1 Housing	Brass	Brass
2 Float	Polypropylene	Polyacetate
3 Cover	Polyamide	Wrought aluminium
		alloy
4 Bowl	-	Polycarbonate
– Seals	Nitrile rubber	Nitrile rubber
Note on materials	-	Contains PWIS (paint
		wetting impairment
		substances)

Actuating force F for manual actuation as a function of supply pressure p

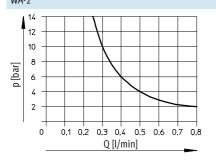


Primary pressure p1 = 7 bar



Primary pressure p1 = 7 bar

Max. possible condensate flow rate ${\bf Q}$ as a function of input pressure ${\bf p}$ WA-2

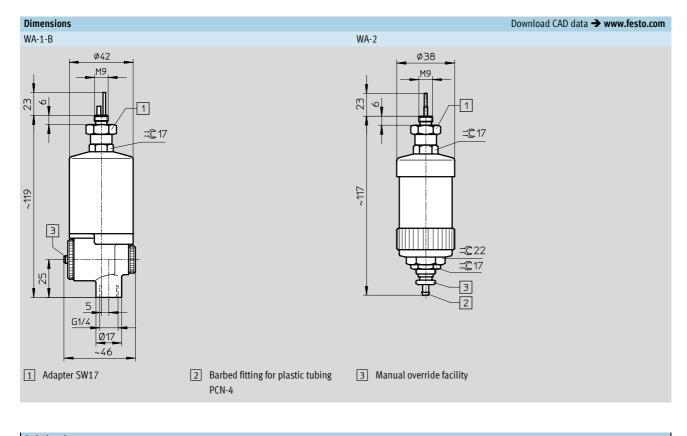


Primary pressure p1 = 7 bar



Condensate drains WA

Technical data



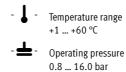
Ordering data					
	Pneumatic connection	Valve function	Weight [g]	Part No.	Туре
	M9	2/2-valve, closed, monostable	210	158497	WA-1-B
	M9	2/2-valve, open, monostable	92	152810	WA-2

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Condensate drains PWEA

Technical data





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Condensate passes through the port in the bottom of the filter bowl into the attached condensate drain valve, where it is collected in a reservoir. A capacitive sensor detects once the maximum filling level is reached. The condensate escapes into the atmosphere via the opening diaphragm valve through the discharge line. The diaphragm valve closes again after a specified response time. A residual amount of condensate remains in the reservoir so that no compressed air can escape into the discharge line.

- Fully automatic condensate drain with integrated electrical controller
- Interface for communicating with master control device
- Reliable thanks to non-contacting capacitive sensor
- Can be used with service units or simply in piping systems
- Operated via touch-sensitive keys or electrical interface
- Ready status and switching status indicated via LEDs and electrical interface

General technical data					
Туре	PWEA-AC-6A	PWEA-AC-7A	PWEA-AC-3D		
Pneumatic connection	G1/2				
Condensate drain connection	РК-8	PK-8			
Design	Fully automatic condensat	Fully automatic condensate drain valve with electrical control interface			
Measured variable	Filling level				
Type of mounting	In-line installation				
Mounting position	Vertical ±5°				
Valve function	3/2-way single solenoid valve, closed				
Manual override	Non-detenting				

Electrical data					
Туре		PWEA-AC-6A	PWEA-AC-7A	PWEA-AC-3D	
Electrical connection		Screw terminal PG9			
Nominal operating voltage	[V AC]	110	230	-	
	[V DC]	-	-	24	
Mains frequency	[Hz]	50/60	·	·	
Nominal power of	[VA]	2	2	-	
condensate drain	[W]	-	-	2	
Operating elements		Touch-sensitive keypad with test button			
Ready status display/switching status		LED			
display					
Alarm output		Contacting			
Protection class (IEC 60529)		IP65			
Protection class			11	111	

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Condensate drains PWEA

Technical data

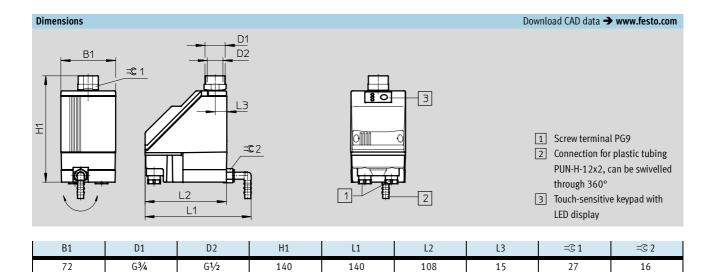
Operating and environmental conditions			
Operating pressure [bar] 0.8 16.0			
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [-:-:-]	
Ambient temperature [°C]		+1 +60	
Temperature of medium	[°C]	+1 +60	
Storage temperature	[°C]	+10 +60	
Corrosion resistance class C	(RC ¹⁾	2	

1)

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

Materials

in a constant of the constant			
lousing Plastic			
Condensate reservoir	ought aluminium alloy		
Seals	Nitrile rubber, fluoro elastomer		
Note on materials	Free of copper and PTFE		



Ordering data						
	Electrical connection	Nominal operating voltage		Weight	Part No.	Туре
		[V AC]	[V DC]	[g]		
	Screw terminal PG9	110	-	700	538679	PWEA-AC-6A
		230	-	700	538680	PWEA-AC-7A
		-	24	700	538681	PWEA-AC-3D
		·	·	·		

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