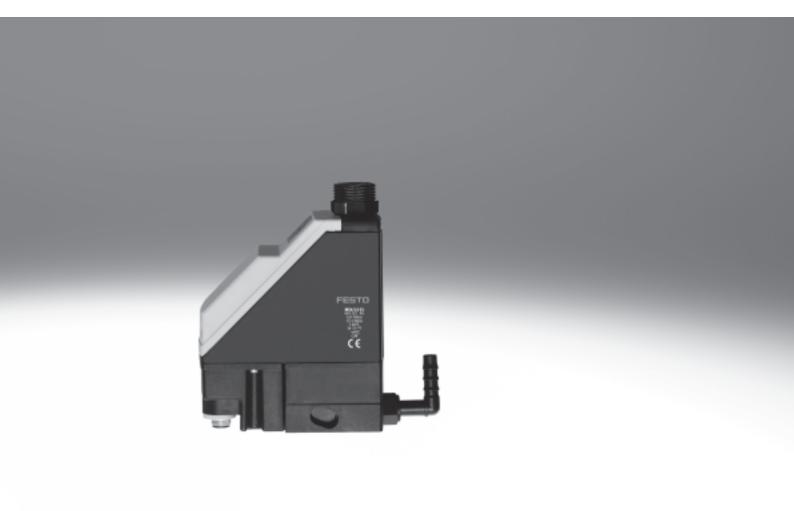
Condensate drain WA/PWEA

FESTO



Condensate drain WA FESTO

Technical data

Function









-

Note

In order to close, the automatic condensate drain type 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 M9		
Condensate drain connection	G1/4 PK-4			
Design	External, mechanically-operated, fully automatic condensate drain valve			
Operating medium	Water			
Type of mounting	In-line installation			
Mounting position	Vertical, ±10°	Vertical, ±5°		
Input pressure [bar]	4 16	0 14		
Valve function	2/2-way single solenoid valve, closed	2/2-way single solenoid valve, open		
Manual override facility	Pushing			

Ambient conditions			
Туре		WA-1-B	WA-2
Ambient temperature	[°C]	0 +60	0 +50
Temperature of medium	[°C]	0 +60	0 +50
Corrosion resistance	CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070 Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

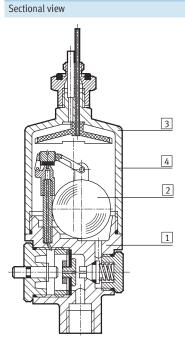
Weights [g]		
	WA-1-B	WA-2
Condensate drain	210	92

Condensate drain WA



Technical data

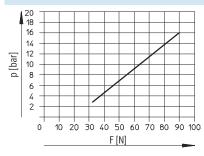
Materials



Condensat	e drain	WA-1-B	WA-2
1 Hous	sing	Brass	Brass
2 Floa	t	Polypropylene	Polyacetate
3 Cove	r	Polyamide	Wrought aluminium alloy
4 Bow		-	Polycarbonate
– Seal	S	Nitrile rubber	Nitrile rubber

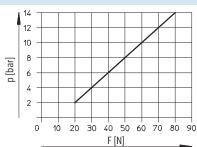
Actuating force F for manual actuation as a function of supply pressure p

WA-1-B



Primary pressure p1 = 7 bar

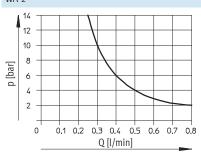
WA-2



Primary pressure p1 = 7 bar

Max. possible condensate flow rate Q as a function of input pressure p

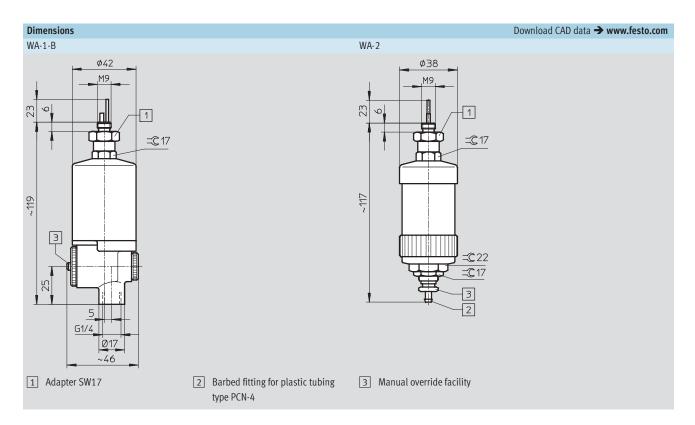
WA-2



Primary pressure p1 = 7 bar

FESTO

Technical data



Ordering of	lata	
Part No.	Туре	
158497	WA-1-B	

Condensate drain PWEA

FESTO

Technical data

Function









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 control system
- Interface for communicating with master control device
- Reliable thanks to contactless 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

5

General technical data				
		PWEA-AC-6A	PWEA-AC-7A	PWEA-AC-3D
Pneumatic connection		G ¹ / ₂		
Condensate drain connection		PK-8		
Design		Fully automatic condensate drain valve with electrical control interface		
Operating medium		Compressed air		
Type of mounting		In-line installation		
Mounting position		Vertical ±5°		
Operating pressure	[bar]	0.8 16.0		
Valve function		3/2-way single solenoid valve, closed		
Manual override facility		Pushing		
Electrical				
Nominal operating voltage	[V DC]	-	_	24
	[V AC]	110	230	_
Electrical connection		Cable conduit fitting Pg9		
Nominal power of	[W]	2		
condensate drain				
Alarm output		Contacting		
Protection class (IEC 60529)		IP65		
Electrical protection class		II	II	III

Ambient conditions		
Ambient temperature	[°C]	+1 +60
Temperature of medium	[°C]	+1 +60
Corrosion resistance class	CRC ¹⁾	2

¹⁾ Corrosion resistance class 2 according to Festo standard 940 070 Components requiring moderate corrosion resistance. 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.

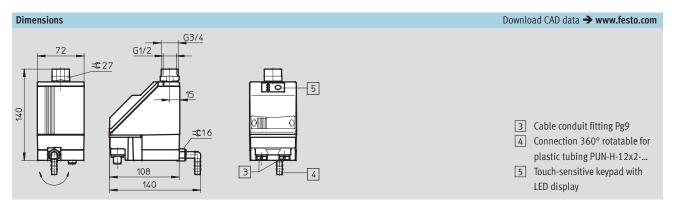
Condensate drain PWEA

FESTO

Technical data

Materials	
Housing	Plastic
Condensate reservoir	Wrought aluminium alloy
Seals	Nitrile rubber, fluorocarbon rubber
Note on materials	Free of copper, PTFE and silicone

Weight [g]	
PWEA	700



Ordering of	ata	
Part No.	Туре	
538679	PWEA-AC-6A	
538680	PWEA-AC-7A	