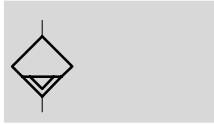




Condensate drain WA

Technical data

Function



-  - Temperature range
0 ... +60 °C
-  - Input pressure
0 ... 16 bar



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		
Type	WA-1-B	WA-2
Pneumatic connection	1 (input) 2 (output)	Male thread G1/8 Female thread G1/4
Design	Attachment device with connection for ducted condensate drain; float-actuated drain valve; valve closed in pressureless operating status	Attachment device with ducted condensate drain, float-controlled, servo-actuated condensate drain valve; valve open in pressureless operating status
Type of mounting	Remove filter bowl drain plug and screw in the condensate drain valve into the connecting thread	
Mounting position	Vertical, $\pm 10^\circ$	Vertical, $\pm 5^\circ$
Input pressure [bar]	4 ... 16	0 ... 14

Ambient conditions		
Variant	WA-1-B	WA-2
Ambient temperature [°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

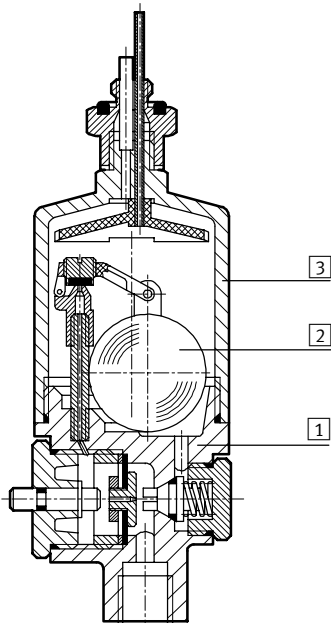
Condensate drain WA

Technical data



Materials

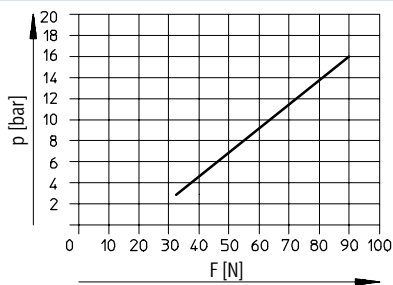
Sectional view



Condensate drain		
1	Housing	Polyamide
2	Float	Polypropylene
3	Cover	Brass
-	Seals	Nitrile rubber

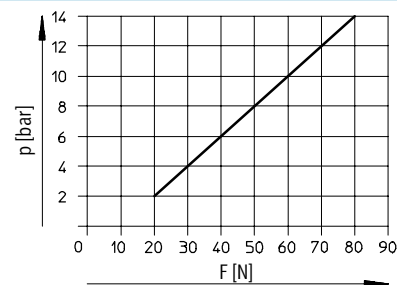
Actuating force F for manual actuation as a function of supply pressure p

WA-1-B



Primary pressure p1 = 7 bar

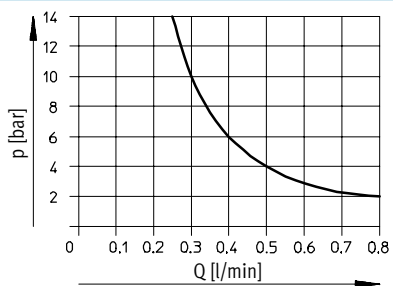
WA-2



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

Condensate drain PWEA

Technical data

Function



-  - Temperature range
+1 ... +60 °C
-  - Operating pressure
0.8 ... 16.0 bar



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 atmos-

phere 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

General technical data		PWEA-AP-3D	PWEA-AC-6A	PWEA-AC-7A	PWEA-AC-3D
Pneumatic connection		G1/2			
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	-	-	24
	[V AC]	-	110	230	-
Electrical connection		M12x1 plug, 5-pin	Cable conduit fitting Pg9		
Nominal power of condensate drain	[W]	2			
Alarm output		Contacting			
Protection class (IEC 60529)		IP65			
Electrical protection class		III	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.

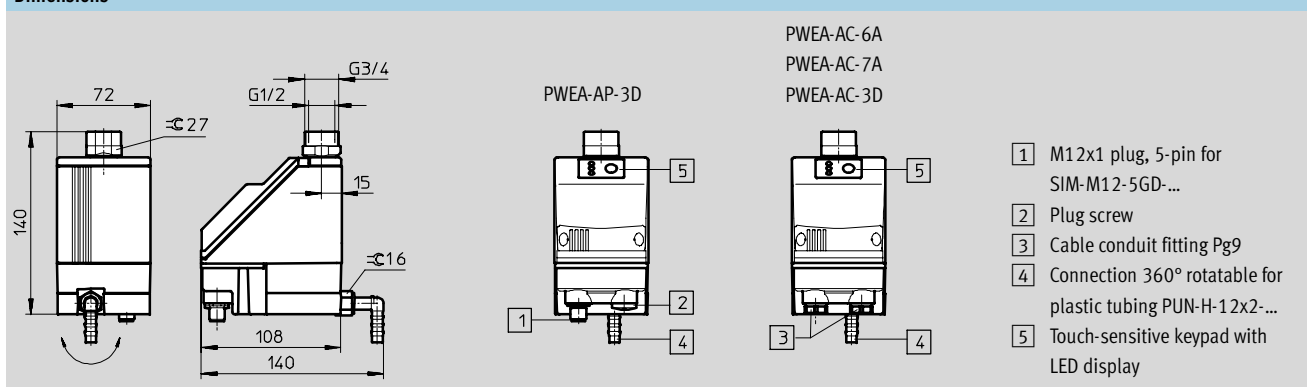
Condensate drain PWEA

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

Dimensions



PWEA-AC-6A
 PWEA-AC-7A
 PWEA-AC-3D

PWEA-AP-3D

- 1 M12x1 plug, 5-pin for SIM-M12-5GD-...
- 2 Plug screw
- 3 Cable conduit fitting Pg9
- 4 Connection 360° rotatable for plastic tubing PUN-H-12x2-...
- 5 Touch-sensitive keypad with LED display

Ordering data	
Part No.	Type
538 678	PWEA-AP-3D
538 679	PWEA-AC-6A
538 680	PWEA-AC-7A
538 681	PWEA-AC-3D