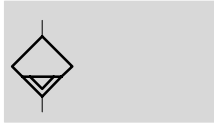




Condensate drain WA

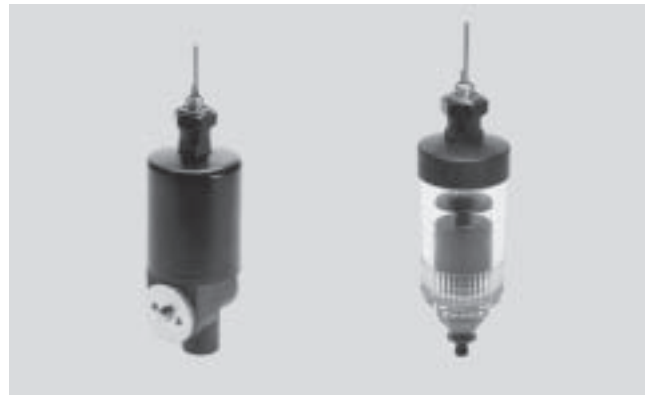
Technical data


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 |

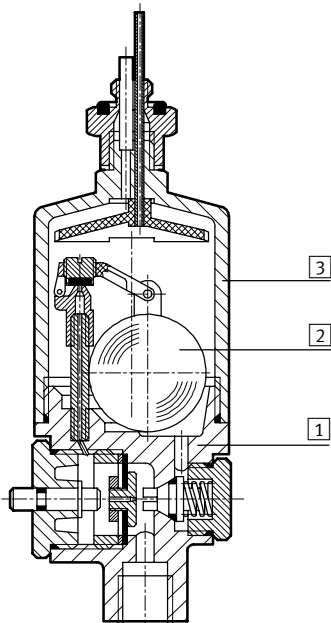
Condensate drain WA

Technical data



Materials

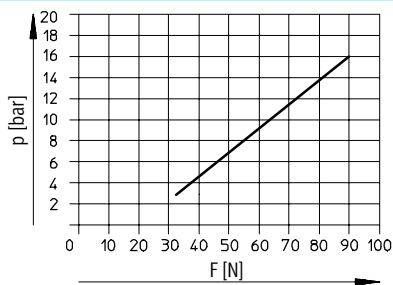
Sectional view



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

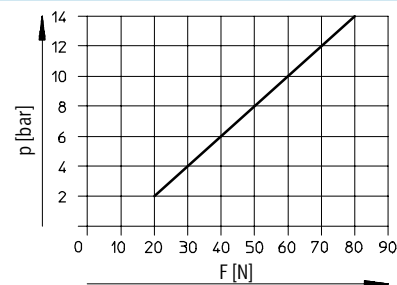
Actuating force F for manual actuation as a function of supply pressure p

WA-1-B



Primary pressure p1 = 7 bar

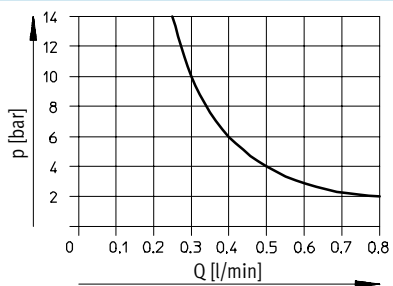
WA-2



Primary pressure p1 = 7 bar

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

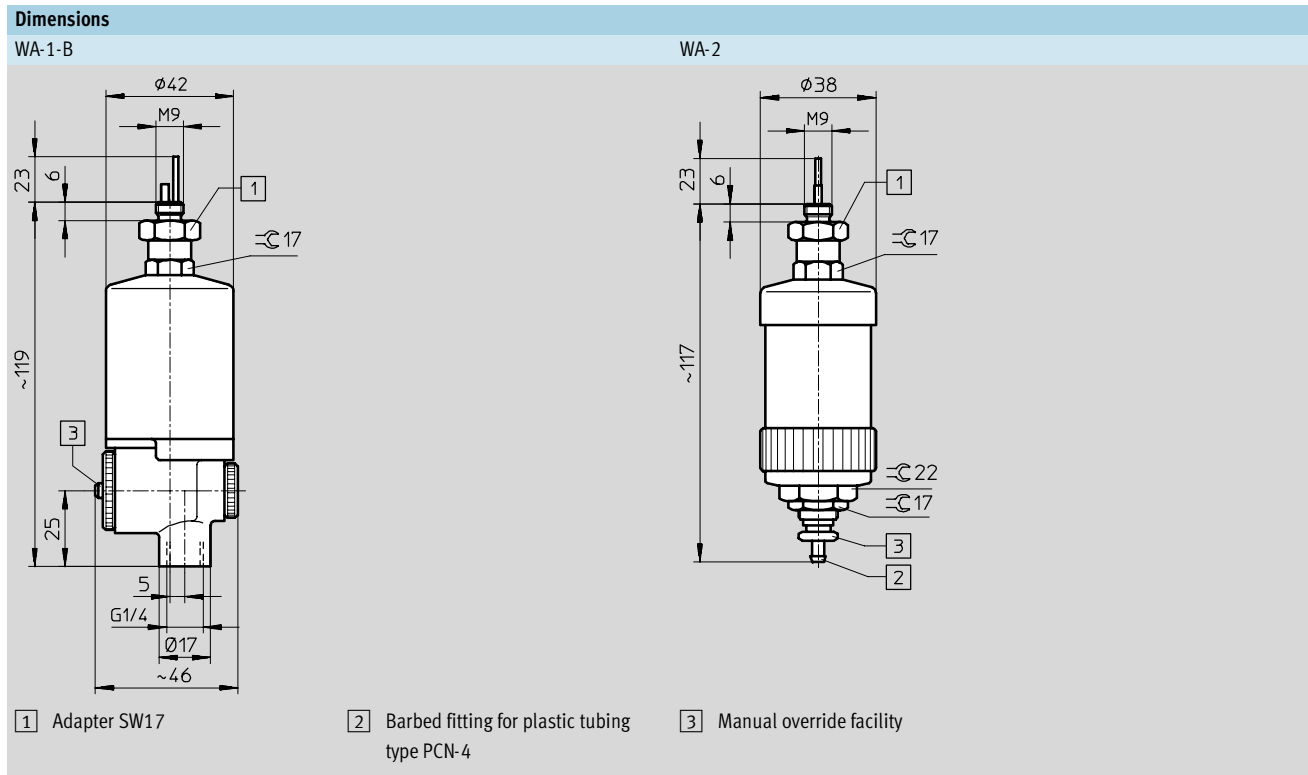
WA-2



Primary pressure p1 = 7 bar

Condensate drain WA

Technical data

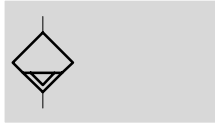



| Ordering data | | |
|---------------|----------|--------|
| Type | Part No. | Type |
| WA-1-B | 158 497 | WA-1-B |
| WA-2 | 152 810 | WA-2 |


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.

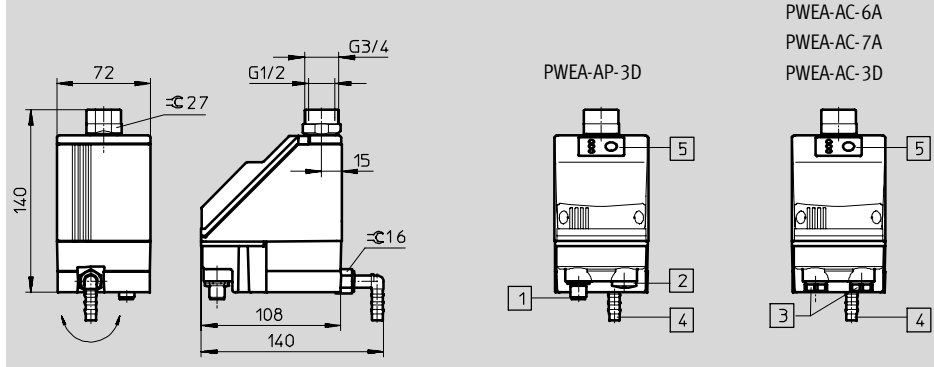
Condensate drain PWEA

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 |