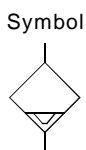


Auto Drain Valve Series AD401, AD402



◆ Specifications

| Model | AD401 | AD402 |
|---|--------------------------|--------------------------|
| Proof pressure | 1.5 MPa | 1.5 MPa |
| Max. operating pressure | 1.0 MPa | 1.0 MPa |
| Operating pressure range ⁽¹⁾ | 0.15~1.0 MPa | 0.1~1.0 MPa |
| Ambient and fluid temperature | -5 to 60°C (No freezing) | -5 to 60°C (No freezing) |
| Port size | Rc1/4, 3/8, 1/2 | Rc1/4, 3/8, 1/2 |
| Drain discharge port size | 1/8 | 3/8 |
| Weight | 300g | 620g |

Note 1): Use for air compressor with flow larger than 400 l/min (ANR).

Drainage is automatically discharged in a reliable manner, without requiring human operators.

Highly resistant to dust and corrosion, operates reliably, and a bowl guard is provided as standard equipment.

Selection

⚠ Warning

- Use auto-drain under the following operating conditions, or it will lead to malfunctions.
 - Operate the compressor above 3.7 kw {400 l/min (ANR)}.
 - Use AD402 at an operating pressure above 0.1 Mpa.

Piping

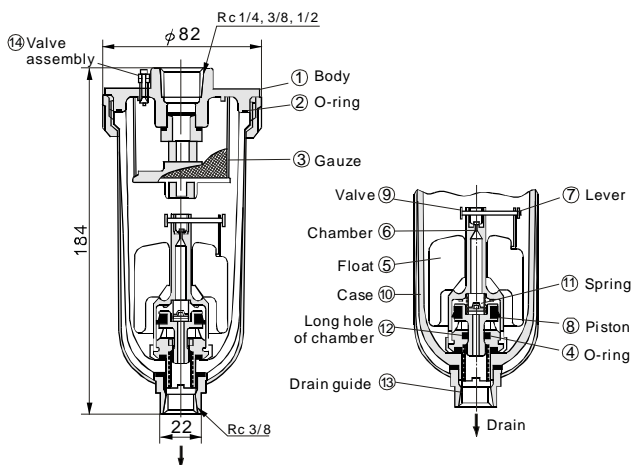
⚠ Warning

- Use auto-drain under the following operating conditions, or it will lead to malfunctions.

To connect a drain discharge pipe, use a pipe with a minimum bore of $\Phi 10$, and a maximum length of 5 m. Avoid using a riser pipe.

◆ Construction

AD402



◆ Component Parts

| No. | Description | Material |
|-----|-------------|---------------------|
| ① | Body | Aluminum die-casted |

◆ Replacement Parts

| No. | Description | Material | Model | |
|-----|-------------------|-----------------|---------|--------|
| | | | AD402 | AD402S |
| ② | O-ring | NBR | 11316 | |
| ③ | Gauze | Stainless steel | 20062 | |
| (1) | Internal assembly | — | AD34PA | |
| ⑧ | Piston assembly | — | — | |
| ⑭ | Valve assembly | — | 201037P | |

Note 1) Internal assembly: Assembly for parts ④ to ⑦ except ⑩.

Note 2) Part no. for bowl assembly: AD34

Note 3) Part no. for bowl ⑩: 201016

• Working principle (AD402)

- When no pressure is applied internally to bowl ⑩, float ⑤ descends of its own weight and valve ⑨ closes chamber hole ⑥. Piston ⑧ is pushed down by spring ⑪, and the drainage passes through the chamber's elongated hole ⑫ to enter the housing and is discharged. When pressure is applied internally to the bowl: When pressure is larger than 1 MPa, it overcomes the force of spring ⑪, allowing piston ⑧ to ascend, and comes in contact with O-ring ④. Thus, the inside of bowl ⑩ is isolated from the outside.
- When drainage has accumulated: Float ⑤ ascends due to flotation and opens the chamber's hole ⑥, allowing the pressure to enter chamber ⑥. Piston ⑧ descends due to the force of the internal pressure and spring ⑩, and the accumulated drainage is discharged through drain guide ⑬.

| |
|-----------|
| III |
| AD401,402 |
| AC |
| AW |
| AF |
| AR |
| AL |
| UFRL |
| UFR/L |
| UFR |
| UF |
| UR |
| UL |
| FRL700A |
| FRL600A |
| FR500A |
| F200A |
| NR200 |
| R 200 |
| L200A |
| AAC,ABC |
| AAF,ABFC |
| AAFR,ABFR |
| AAF,ABF |
| AAR,ABR |
| AAL,ABL |
| SFC |
| SFR |
| SL |