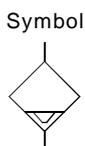


Auto Drain Valve Series AD401, AD402

ANSSION
PNEUMATIC & HYDRAULIC



◆ 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

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

Piping

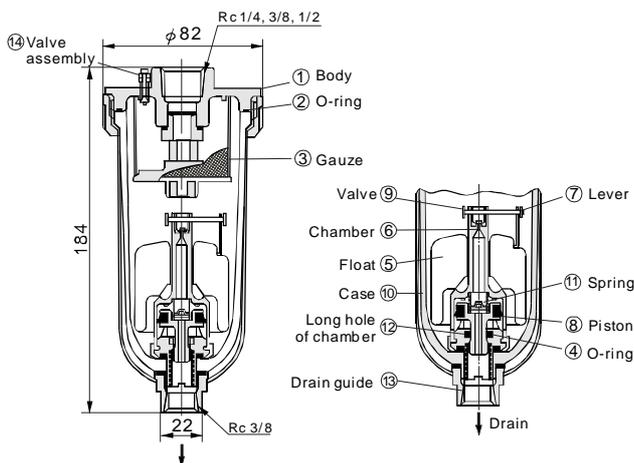
⚠ Warning

1. 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 ⑭ 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