Auto Drain Valve AD402/600 Series

Drain 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.





AD402

AD600



Model/Specifications

Model	AD402	AD600	
Proof pressure	1.5 MPa	1.5 MPa	
Max. operating pressure	1.0 MPa	1.0 MPa	
Operating pressure range Note)	0.1 to 1.0 MPa	0.3 to 1.0 MPa	
Ambient and fluid temperature	-5 to 60°C (No freezing)	-5 to 60°C (No freezing)	
Port size	1/4, 3/8, 1/2	3⁄4, 1	
Drain port size	3/8	3⁄4, 1	
Weight (g)	590	1310	

Note) 400 L/min (ANR) or more

A Warning

tion

▲ Specific Product Precautions

Be sure to read this before handling the products. Refer to page 9 for safety instructions and pages 10 to 12 for air I preparation equipment precautions.

Selection

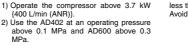
Use the auto drain under the following oper-

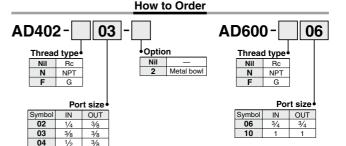
ating conditions in order to prevent malfunc-

∆ Warning

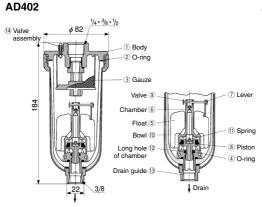
Piping should be done under the following conditions in order to prevent malfunction. For drain piping, use a pipe whose I.D. is not less than ø10 and length not more than 5 m. Avoid riser piping.

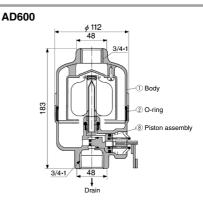
Piping





Construction/Dimensions





Working Principle (AD402)

- When no pressure is applied inside the bowl ①, float ⑤ descends of its own weight and valve ③ closes the chamber ⑥ hole. Piston ⑧ is pushed down by spring ①, and drain passes through the chamber's long hole ② to enter the housing and is discharged.
- When pressure is applied inside the bowl: When pressure is 0.1 MPa or more, it overcomes the force of spring [0], allowing the piston ® to ascend, and comes in contact with O-ring @. Thus, the inside of the bowl [0] is isolated from the outside.
- When drain has accumulated:

Float (5) ascends due to flotation and opens the chamber hole (6), allowing the pressure to enter the chamber (6). Piston (8) descends due to internal pressure and the force of spring (11), and the accumulated drain is discharged through drain guide (13).

Component Parts

No.	Description	Material
1	Body	Aluminum die-casted

Replacement Parts

No.	Description	Material	Model	
INO.			AD402	AD600
2	O-ring	NBR	113136	KA00452
3	Gauze	Stainless steel	20062	—
Note 1)	Internal assembly	—	AD34PA	—
8	Piston assembly	_	_	20025A

Note 1) Internal assembly: Assembly for parts ④ to ⑫ except ⑩.

Note 2) Part no. for bowl assembly: AD34

Note 3) Part no. for bowl 10: 201016