

Related Equipment: Auto Drain Valve

Series AD402/600

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

JIS Symbol



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
Mass (g)	620	2100



Note) 400 ℓ /min (ANR) or more

⚠ Specific Product Precautions

Be sure to read before handling.

Refer to front matters 42 and 43 for Safety Instructions and pages 6 to 8 for Air Preparation Equipment Precautions.

Selection

⚠ Warning

Use the auto drain under the following operating conditions in order to prevent malfunction.

- 1) Operate the compressor above 3.7 kw {400 ℓ /min (ANR)}.
- 2) Use the AD402 at an operating pressure above 0.1 MPa and AD600 above 0.3 MPa.

Piping

⚠ 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 $\phi 10$ and length not more than 5 m. Avoid riser piping.

How to Order

AD402- 03-

Thread type

Nil	Rc
N	NPT
F	G

Option

Nil	—
2	Metal bowl

Port size

Symbol	IN	OUT
02	1/4	3/8
03	3/8	3/8
04	1/2	3/8

AD600- 06

Thread type

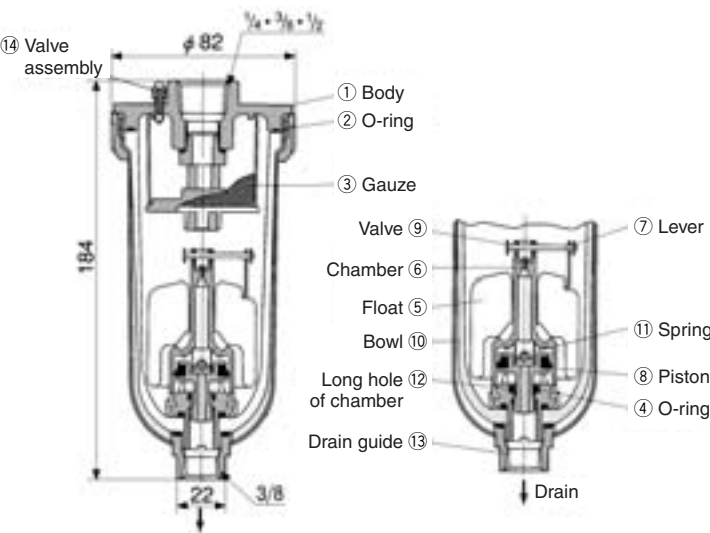
Nil	Rc
N	NPT
F	G

Port size

Symbol	IN	OUT
06	3/4	3/4
10	1	1

Construction/Dimensions

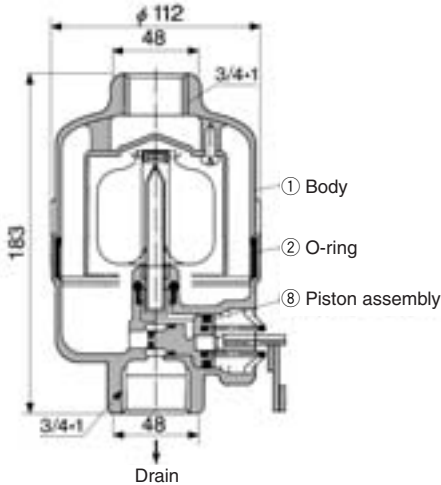
AD402



Working Principle (AD402)

- When no pressure is applied inside the bowl ⑩, float ⑤ descends of its own weight and valve ⑨ closes the chamber ⑥ hole. Piston ⑧ is pushed down by spring ⑪, and drain passes through the chamber's long hole ⑫ 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 ⑪, allowing the piston ⑧ to ascend, and comes in contact with O-ring ④. Thus, the inside of the bowl ⑩ 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.

AD600



Component Parts

No.	Description	Material
1	Body	Aluminum die-casted

Replacement Parts

No.	Description	Material	Model	
			AD402	AD600
2	O-ring	NBR	113136	JIS B2401G-100
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

HAA
HAW
AT
IDF
IDU
IDFA
IDFB
ID
IDG
AMG
AFF
AM
AMD
AMH
AME
AMF
SF
SFD
LLB
AD□
GD