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

1/4, 3/8, 1/2 3/4, 1 Drain port size 3/8 3/4. 1 1310 590

AD402

1.5 MPa

1.0 MPa

0.1 to 1.0 MPa

-5 to 60°C (No freezing)

Note) 400 L/min (ANR) or more

Model/Specifications

Max. operating pressure

Proof pressure

Port size

Weight (g)

Model

Operating pressure range Not

Ambient and fluid temperature

Be sure to read this before handling the products.

Refer to back page 50 for Safety Instructions and pages 6 to 8 for Air I Preparation Equipment Precautions.

Selection

Marning

Use the auto drain under the following operating conditions in order to prevent malfunc-

- 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

Piping

AD600

1.5 MPa

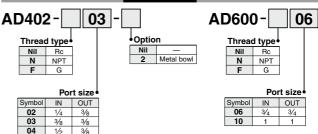
1.0 MPa

0.3 to 1.0 MPa

-5 to 60°C (No freezing)

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.

How to Order

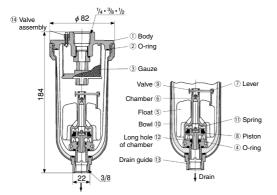




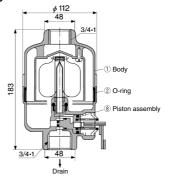
Auto Drain Valve AD402/600 Series

Construction/Dimensions

AD402



AD600



Component Parts

Component i di to			
No.	Description Material		
1	Body	Aluminum die-casted	

Working Principle (AD402)

 When no pressure is applied inside the bowl ①, float ⑤ descends of its own weight and valve ⑨ closes the chamber ⑥ hole. Piston ⑩ is pushed down by spring ①, 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 ①, 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 § ascends due to flotation and opens the chamber hole (§), allowing the pressure to enter the chamber (§). Piston (§) descends due to internal pressure and the force of spring (1), and the accumulated drain is discharged through drain outled (3).

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 @: 201016 HAA HAW

IDF IDU IDF □FS

IDFA IDFB

IDH ID

IDG IDK

AMG

AFF

AM

AMD

AMH

AME AMF

ZFC

SF SFD

LLB AD**≡**

GD