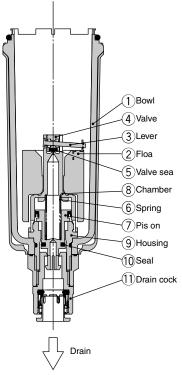
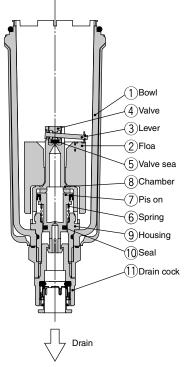
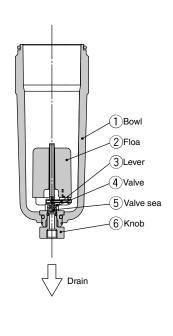
N.O. type: AD38-A, AD48-A



N.C. type: AD37-A, AD47-A



Compact auto drain N.C. type: AD17-A, AD27-A



When pressure inside the bowl is released:

When pressure is released from the bowl 1 the piston 2 is lowered by the spring 6

The sealing action of the seal 0 is interrupted and the outside air flows inside the bowl 1 through the housing hole 9 and the drain cock

Therefore if there is an accumulation of con densate in the bowl $\mathop{\textcircled{}}$ it will drain out through the drain cock

When pressure is applied inside the bowl:

When pressure is 0 1 MPa or more the force of the piston ⑦ surpasses the force of the spring ⑥ and the piston goes up

This pushes seal 10 up so that it creates a seal and the inside of the bowl 1 is shut off from the outside air

f there is no accumulation of condensate in the bowl ① at this time, the float ② will be pulled down by its own weight causing the valve ④ which is connected to the lever ③ to seal the valve seat ⑤

When there is an accumulation of condensate in the bowl:

The float ② rises due to its own buoyancy and the seal at the valve seat ⑤ is interrupted

This allows the pressure inside the bowl ① to enter the chamber ⑧ The result is that the combined pressure inside the chamber ⑧ and the force of the spring ⑥ lowers the piston ⑦

This causes the sealing action of the seal ① to be interrupted and the accumulated conden sate in the bowl ① drains out through the drain cock ①

Turning the drain cock ① manually counter clockwise lowers the piston ② and causes the seal created by the seal ⑩ to be interrupted thus allowing the condensate to drain out

When pressure inside the bowl is released:

Even when pressure inside the bowl \odot is re leased spring 6 keeps the piston 7 in its up ward position

This keeps the seal created by the seal 1 in place thus the inside of the bowl 1 is shut off from the outside air

Therefore even if there is an accumulation of condensate in the bowl 1 it will not drain out

When pressure is applied inside the bowl:

Even when pressure is applied inside the bowl 1 the combined force of the spring 6 and the pressure inside the bowl 1 keeps the piston 2 in its upward position

This maintains the seal created by the seal ⁽¹⁾ in place thus the inside of the bowl ⁽¹⁾ is shut off from the outside air

f there is no accumulation of condensate in the bowl 1 at this time, the float 2 will be pulled down by its own weight causing the valve 4 which is connected to the lever 3 to seal the valve seat 5

When there is an accumulation of condensate in the bowl:

The float ② rises due to its own buoyancy and the seal at the valve seat ⑤ is interrupted This allows the pressure inside the bowl ① to enter the chamber ⑧

The result is that the pressure inside the cham ber (§) surpasses the force of the spring (§) and pushes the piston (⑦) downward

This causes the sealing action of the seal 0 to be interrupted and the accumulated condensate in the bowl 1 drains out through the drain cock 1 Turning the drain cock 1 manually counter clockwise lowers the piston 2 and causes the seal created by the seal 1 to be interrupted thus allowing the condensate to drain out

When pressure inside the bowl is released:

Even when pressure inside the bowl 1 is re leased the weight of the float 2 causes the valve 4 which is connected to the lever 3 to seal the valve seat 5 As a result the inside of the bowl 1 is shut off from the outside air Therefore even if there is an accumulation of condensate in the bowl 1 it will not drain out

When pressure is applied inside the bowl:

Even when pressure is applied inside the bowl ①, the weight of the float ② and the differential pressure that is applied to the valve ④ cause the valve ④ to seal the valve seat ⑤ and the outside air is shut off from the inside of the bowl

When there is an accumulation of condensate in the bowl:

The float ② rises due to its own buoyancy and the seal at the valve seat ⑤ is interrupted

The condensate inside the bowl ① drains out through the knob ⑤

Turning the knob ® manually counterclockwise lowers it and causes the sealing action of the valve seat ® to be interrupted which allows the condensate to drain out

