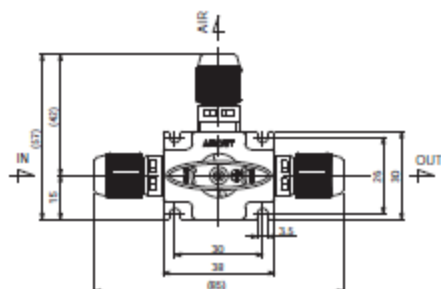


### ***AVC check valve with an air vent (Option)***

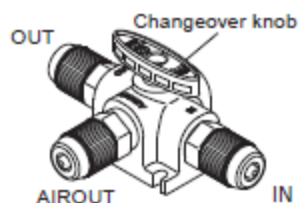
AVC check valve is designed for being used with the HRP and works for both back-flow check and bleeding.

#### **■ Specification**

Model	Set pressure	Tube connection bore
AVC-FC1	0.1MPa	ø3×ø6mm
AVC-FC2		ø4×ø6mm
AVC-FC3		1/8"×1/4"



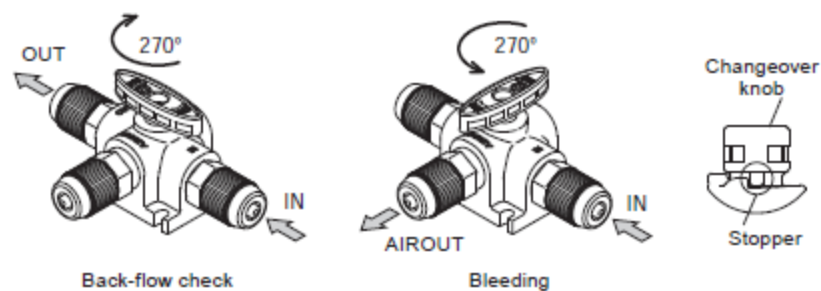
**AVC air vent check valve**



#### **■ Back-flow check/Bleeding changeover**

Select either function by rotating the changeover knob.

\*The knob can rotate up to 270 degrees. A stopper is provided to determine the rotation limit of the knob.



#### **NOTE**

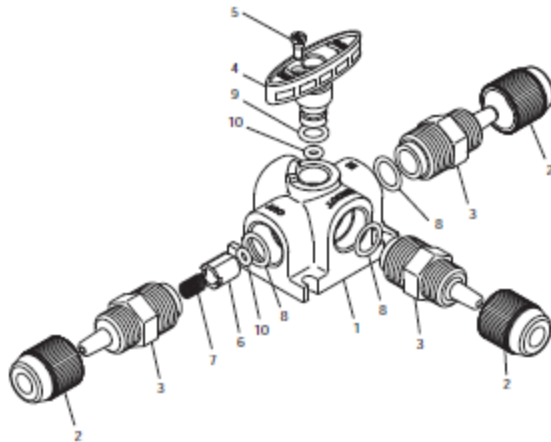
Do not apply much stress to the stopper screw, or it may break.

## Maintenance (AVC check valve)

### **!** Precautions

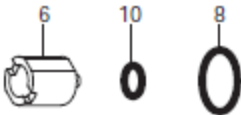

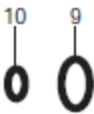
- When dismantling the check valve, pay attention to the residual liquid in the pump.
- Rinse wet ends thoroughly with water.

### **Exploded view (AVC check valve)**



No	Part names	Q'ty
1	Body	1
2	Fitting nut	3
3	Fitting	3
4	Air vent valve	1
5	Stopper screw	1
6	Poppet valve	1
7	Spring	1
8	O ring	3
9	O ring	1
10	O ring	2

### ***Wear part list (AVC check valve)***

	Parts	# of parts	Estimated life
Pump	Poppet valve with O rings 	1	8000 hours
	Spring 	1	
	O-rings 	1	

\*Wear part duration varies with the pressure, temperature and characteristics of the liquid.

\*The estimated life is calculated based on the continuous operation with ambient clean water.

\*Replace the poppet valve, spring and O rings at the same time.

### ***Wear parts replacement (AVC check valve)***

*First release the pressure from the discharge line. Otherwise, liquid may gush out during work.*

- 1** Stop the pump operation.
- 2** Release the internal pressure.  
Turn the changeover knob and expel air from the air vent.
- 3** Check that liquid comes out from the air vent port and the internal pressure has been expelled.

## Dismantlement

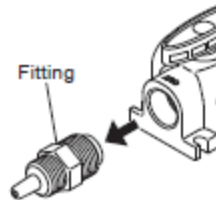
### 1 Detach the AVC check valve.

Loosen the fitting nut and remove tubes from the IN, OUT and AIROUT ports.



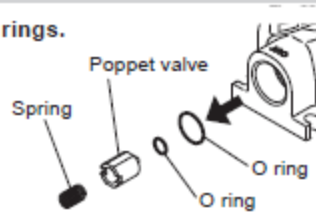
### 2 Remove the fitting nut.

Use an adjustable wrench or spanner to unscrew the fitting nut.



### 3 Take out a spring, poppet valve and O rings.

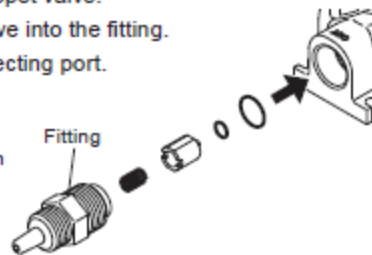
Use a pair of tweezers as necessary.



### 4 Fit a spring, poppet valve and O rings.

- Place a small O ring into the poppet valve.
- Insert the spring and poppet valve into the fitting.
- Fit the large O ring into the connecting port.
- Screw in the fitting.

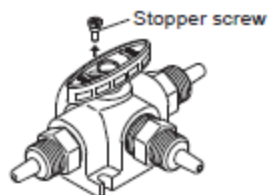
\*Tighten the fitting by 2.5N·m. If a torque wrench is not available, tighten the fitting hand-tight and then further rotate it by 90 degrees, using an adjustable wrench or a spanner.



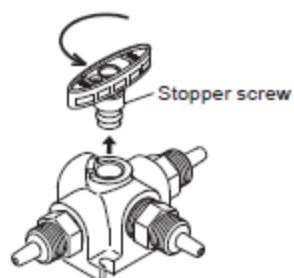
#### NOTE

- Do not insert poppet valve the other way around. Or a poor flow or a leak may result.
- Be careful not to forget to mount O rings.
- Keep the parts free from dust.

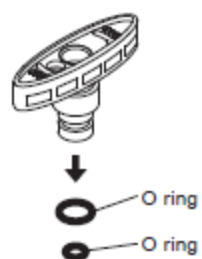
- 5** Unscrew the stopper from the changeover knob.



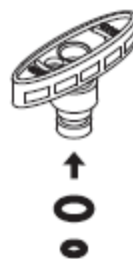
- 6** Unscrew the changeover knob.



- 7** Detach O rings.

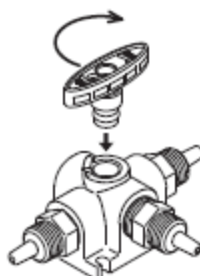
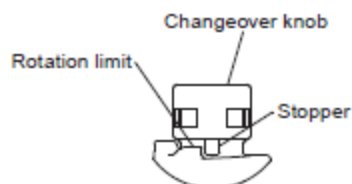


- 8** Attach new O rings.



- 9** Screw in the changeover knob until it bottoms out.

Do not tighten the knob too much so that the changeover knob stops at a rotation limit.

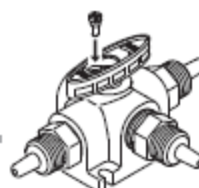


- 10** Screw the stopper screw in the knob.

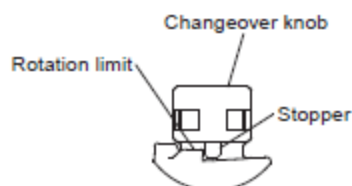
Use a precision screw driver.

**NOTE**

Do not tighten the stopper screw too much. Or it may break.



- 11** Check the knob rotation is stopped by the rotation limit and stopper.



- 12** Connect IN, OUT and AIROUT tubes to each port.