

# TSF-11AT



|           |              |         |                 |
|-----------|--------------|---------|-----------------|
| Bucket    | Float        | Disc    | Bellows         |
| Bimetal   | Wafer        | By-pass | Stainless steel |
| Connector | Side to side |         |                 |

## ■Features

1. The TSF-11AT can discharge condensate effectively without retention, and prevent the equipment piping for corrosion.
2. Flow direction can be switched easily without disassembly such as detaching the cover.
3. Since the main parts are installed on the cover, it is possible to disassemble the cover even the body installed on the piping.
4. Inspection and parts replacement can be conducted easily.

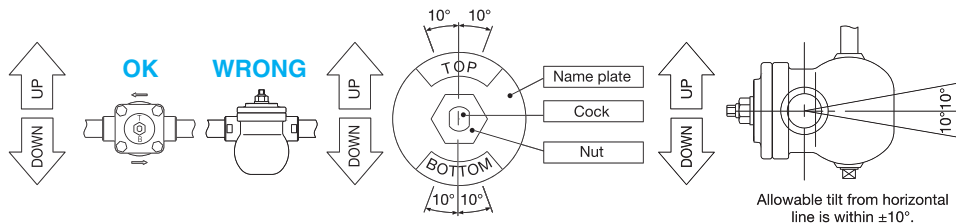


TSF-11AT

## ■Specifications

| Model               |                   | TSF-11AT                                                                           |
|---------------------|-------------------|------------------------------------------------------------------------------------|
| Nominal size        |                   | 32A-50A                                                                            |
| Application         |                   | Condensate                                                                         |
| Working pressure    |                   | TSF-11AT-5: 0.01-0.5 MPa<br>TSF-11AT-10: 0.01-1.0 MPa<br>TSF-11AT-21: 0.01-2.1 MPa |
| Maximum temperature |                   | 220°C                                                                              |
| Material            | Body              | Ductile cast iron                                                                  |
|                     | Float             | Stainless steel                                                                    |
|                     | Valve, valve seat | Stainless steel                                                                    |
| Connection          |                   | JIS Rc screwed<br>NPT screwed                                                      |

## ■Caution for Installation

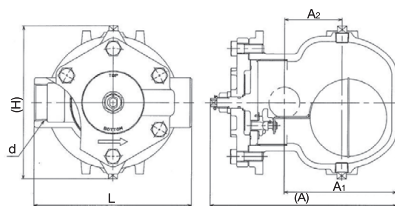


- Adjust direction of the name plate in no pressure condition after installation.
- The flow direction of TSF-11AT is adjusted from left to right. When using from right to left, you can adjust direction by turning the cock.
- After adjusting the direction, remove the plug on the top side and connect the pressure equalization pipe.
- Due to the connection of pressure equalization pipe, flow direction top to bottom is not available.

## ■Dimensions (mm) and Weights (kg)

### ·TSF-11AT

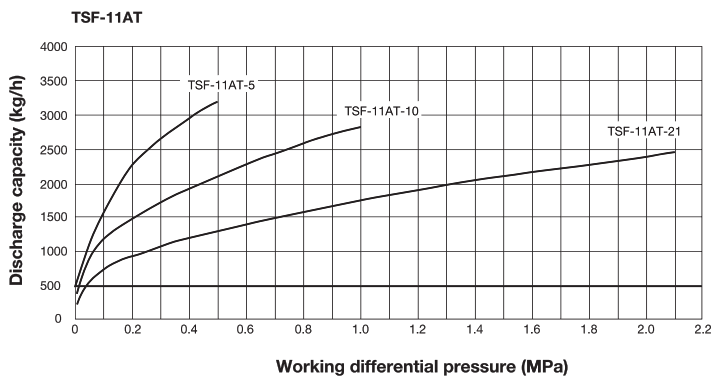
| Nominal size | d               | L   | A   | A1  | A2 | H   | Plug          | Weight |
|--------------|-----------------|-----|-----|-----|----|-----|---------------|--------|
| 32A          | Rc or NPT 1/4   | 190 | 244 | 147 | 75 | 210 | Rc or NPT 3/8 | 10     |
| 40A          | Rc or NPT 1 1/2 | 205 | 244 | 147 | 75 | 210 | Rc or NPT 3/8 | 10.2   |
| 50A          | Rc or NPT 2     | 220 | 244 | 147 | 75 | 210 | Rc or NPT 3/8 | 10.5   |



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## ■Maximum Continuous Discharge Capacity Chart

### ·TSF-11AT



The discharge capacity shown in the charts on the above is the maximum value. In designing a system, select an air trap with a sufficient safety factor (more than two times the regular level).

## ■Piping Example

