

# BALL FLOAT STEAM TRAP



SFT14



SFT14F

## Size and pipe connections

DN15-DN25 Screwed BSP or NPT  
DN15-DN25 Flanged EN 1092 PN16/PN25, ANSI 150

## Material

Part.....Material  
Body/Cover.....GGG40/A216 WCB/A351 CF8  
Cover bolts.....A193 B7  
Cover gasket.....Graphite+SS304 or ss316  
Valve seat.....A276 430  
Ball float and lever.....A240 304  
Air vent assembly.....A240 304

*Note:1. The material can according to the customer's request or actual valve working condition.*

*2.The surface of valve can use high temperature resistant black or blue paint, but also can according to the customer's request.*

## Installation

Horizontal connections with flow from right to left.  
Horizontal connections with flow from left to right.  
Vertical connections with flow downwards.

## Application

Ball float steam traps are extremely versatile and work efficiently on both light and heavy condensate loads. Although compact in size, their discharge capacity is high and continuous, ensuring maximum heat transfer. These traps are the best choice for draining plant with automatic temperature control.

(SFT14 Size: DN15-DN25, Displacement: less than 2100kg/h)

## Standard

Horizontal connections with flow from right to left.  
Horizontal connections with flow from left to right.  
Vertical connections with flow downwards.

### Limited condition (Nodular cast iron)

Body design conditions.....PN16  
PMO Maximum allowable pressure.....14bar g  
TMO Maximum allowable temperature.....250 °C  
ΔPMX Maximum differential pressure.....4.5bar g  
...../10bar g/ 14bar g

### Limited condition (Carbon steel/stainless steel)

Body design conditions.....PN25  
PMO Maximum allowable pressure.....20bar g  
TMO Maximum allowable temperature.....300 °C  
ΔPMX Maximum differential pressure.....4.5bar g  
...../10bar g/ 14bar g

*Note: The working pressure difference of steam trap is selected according to the pressure difference of actual working condition. The pressure difference of actual working condition must be lower than the maximum working pressure difference of steam trap, such as 0.1bar-4.5bar, choose 4.5bar 4.5bar-10bar choose 10bar.*

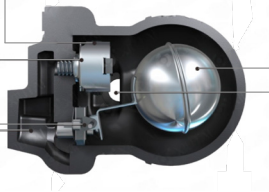
SFT14F Flanged



**01** Stainless steel air vent assembly and seat liquid sac can be replaced on line.

**02** The air vent assembly can increase the discharge of condensate extra.

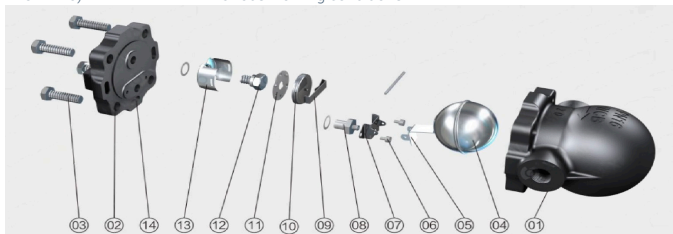
**03** The stainless steel float ball is resistant to water hammer and corrosion



**04** The bonnet is designed with three drainage holes. It can open the bonnet and rotate the valve body to change flow direction. (DN15-DN20)

**05** The valve seat is a spherical seal. The valve seat of different sizes can be matched according to the difference of pressure and temperature of steam to meet various working conditions.

**06** The valve flow route is designed to avoid direct impact of steam and water hammer on floating ball to prolong life.



- 1. Body GGG40/A216 WCB/A351 CF8
- 2. Cover GGG40/A216 WCB/A351 CF8
- 3. Bolt A193 B7
- 4. Ball float A240 304
- 5. Lever SUS440

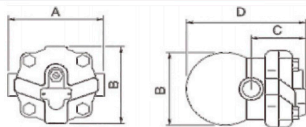
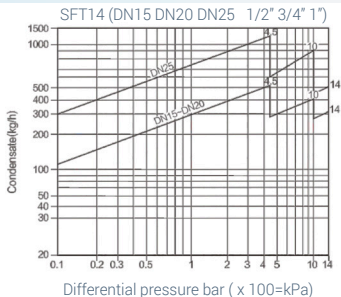
- 6. Screw A193 B8
- 7. Yoke A240 304
- 8. Seat A276 430
- 9. Air vent assembly A.17-4PH B.A240 304
- 10. Gasket A240 304+Graphite

- A.17-4PH
- B.A240 304
- C. A240 304
- D. A276 430
- E A240 304

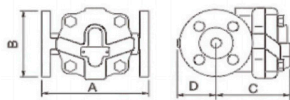
SFT14 Screwed

SFT14D Flanged

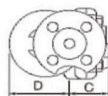




SFT14 DN15-DN25



SFT14F DN15-DN20



SFT14F DN25

The condensed water displacement in the figure above is based on the saturated temperature. When the steam equipment is just opened, the condensed water is in a cold state. Opening the hydrostatic exhaust air valve inside the steam trap can increase the condensed water displacement.

4.5bar	600kg/ h
10bar	1200kg/ h
14bar	1500kg/ h

SFT14 Screwed					
Size	A	B	C	D	Weight
DN15	121	107	67	147	2.8
DN20	121	107	67	147	2.8
DN25	145	107	67	166	
SFT14F Flanged					
Size	A	B	C	D	Weight
DN15	150	107	101	55	4.5
DN20	150	107	101	55	5.0
DN25	160	70	70	100	6.5

