



# SFK-70

## FLOATING BALL STEAM TRAP

### GENERAL FEATURES

This type of steam traps do not contain any lever inside, only moving part is the oat itself. The oat is made of stainless steel with high surface quality. The dimensional tolerance of the float is very low.

**Body and Cover:**

Cast Steel

**Inner Part and Float:**

Stainless Steel-AISI 316Ti

**Max. Operating Pressure:**

25 bar

**Max. Operating Temp:**

220 °C

**ΔP:**

4.5 / 8 / 10 / 14 bar

**Connection:**

Threaded, Flanged,

### Operation

When trap is cool, the air vent opens wide for continuously discharging initial air. As cold condensate enters the trap, the float rises to allow discharge of condensate from valve port and both air and condensate from orifice.

Once all initial air and cold condensate have been discharged, the equipment which is connected to the steam trap reaches the operation temperature.

In this case, the condensate amount drops but the temperature rises. Steam enters the trap along with condensate, hot condensate heats the air vent and closes before steam can escape.

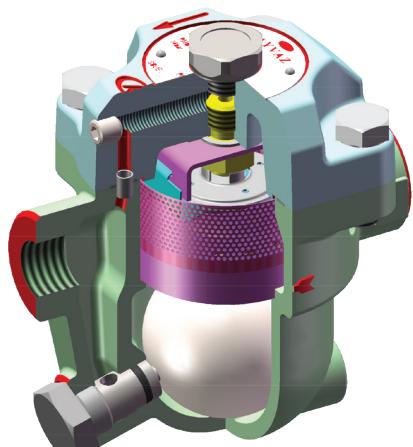
The float can adjust itself according to the condensate flow rate. In order to prevent steam leakage, discharge orifice is always kept under a certain level of water along with metal to metal sealing.

For the cases that condensate discharge is operated from the cylinder driers, a by-pass line above the cover is created with the purpose of preventing the steam lock. The aim of this line is to discharge the steam before the correct timing of steam trap entry.

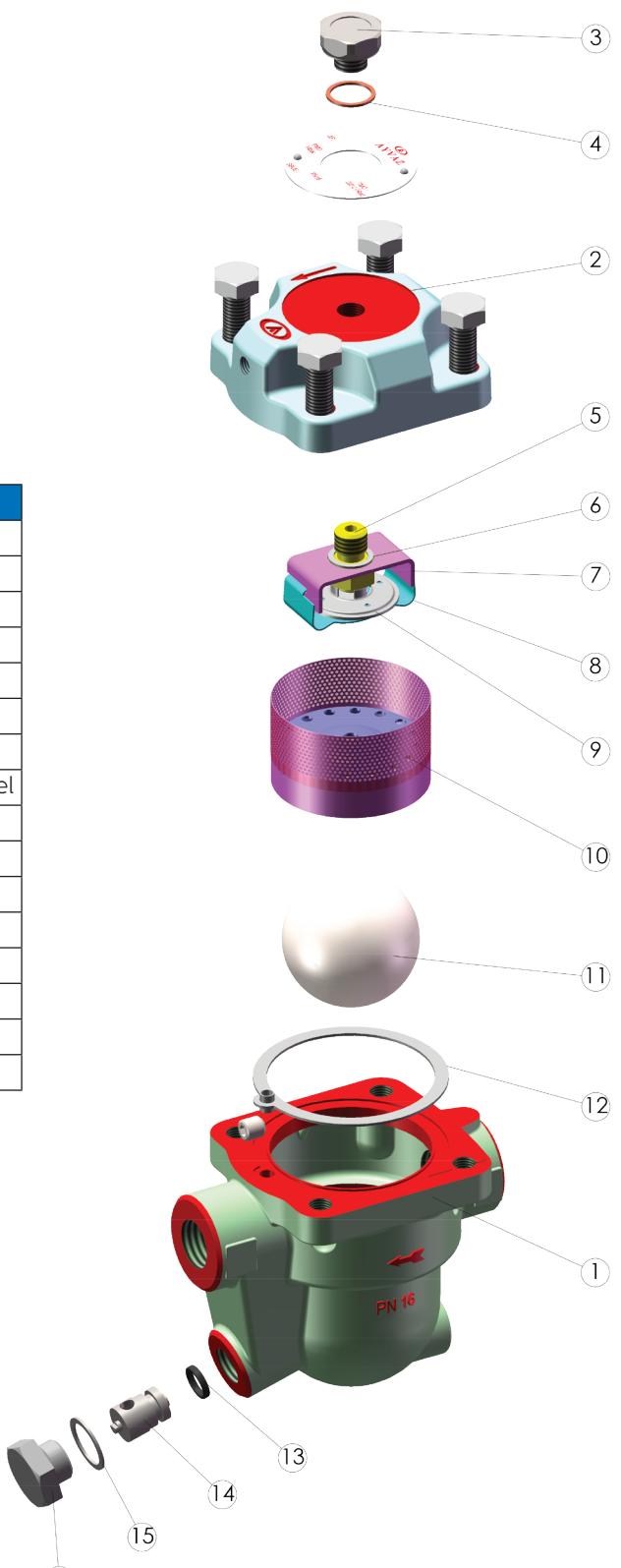
**Advantages**

- 1 - Low cost of installation and equipment
- 2 - Space saver, compact design
- 3 - Built in strainer
- 4 - Homogeneous abrasion on the surfaces
- 5 - Low failure possibility of single moving part
- 6 - Low maintenance cost
- 7 - Well resistance on water hammering

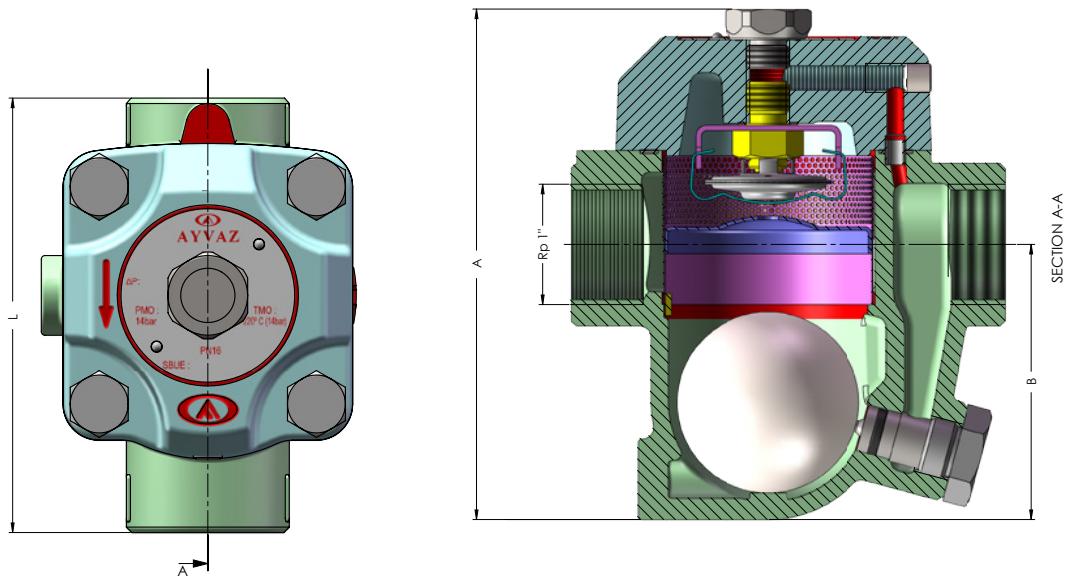
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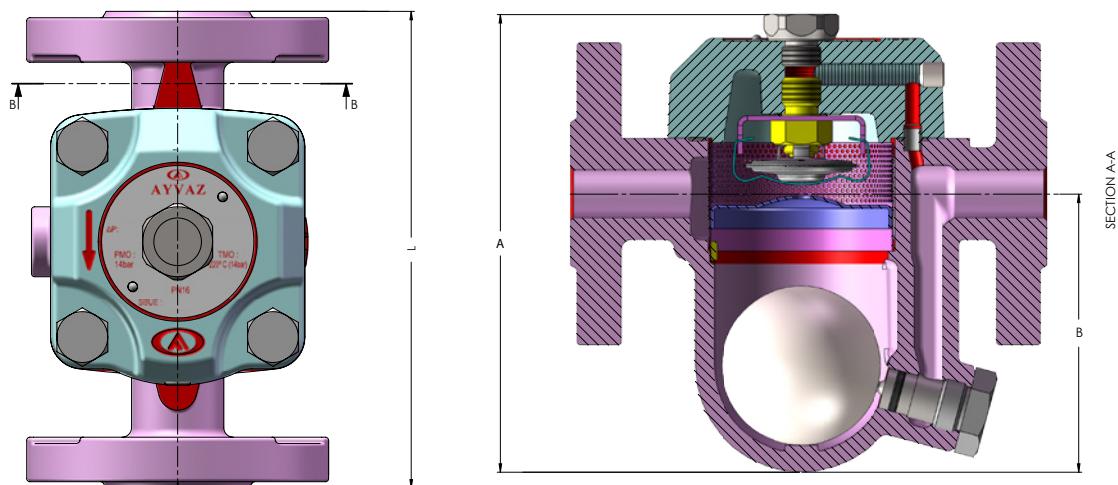
No	SPARE PARTS	MATERIALS
1	Body	Cast Steel
2	Cover	Cast Steel
3	Cover Plug	Cast Steel
4	Plug Gasket	Copper
5	Air Vent Seat	Stainless Steel
6	Seat Gasket	Stainless Steel
7	Thermostatic Unit Lower Part	Stainless Steel
8	Thermostatic Unit Upper Part	AISI 301L Stainless Steel
9	Thermostatic Capsule	Stainless Steel
10	Strainer	Stainless Steel
11	Float	AISI 316Ti
12	Cover Gasket	Graphite
13	O-ring	Viton
14	Orifice	AISI 431 Stainless Steel
15	Plug Gasket	Copper
16	Orifice Plug	Stainless Steel



## SFK-70 FLOATING BALL STEAM TRAP



DN (mm)	A	B	L
15	134	73,5	120
20	134	73,5	120
25	141	76	120



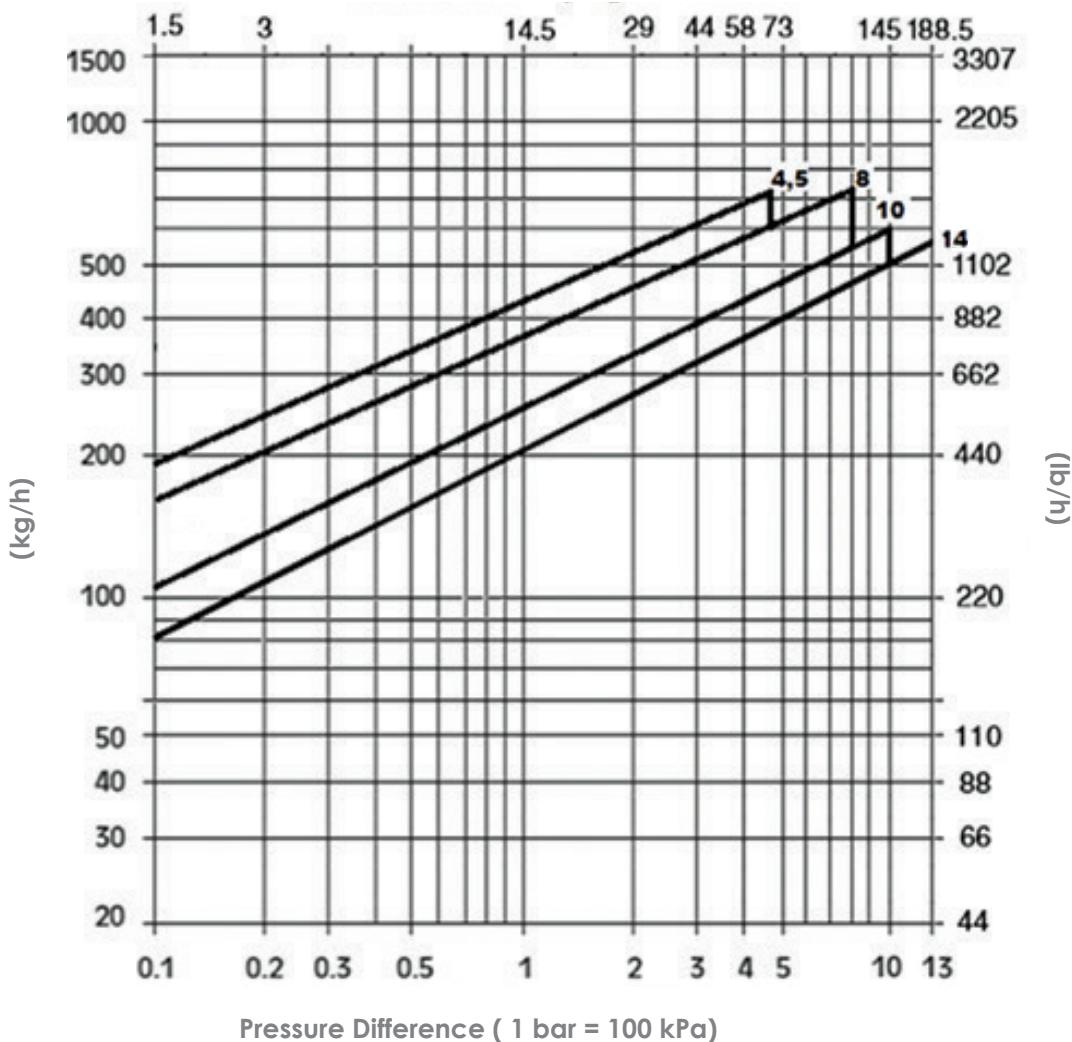
DN (mm)	A	B	L
15	144	87,5	150
20	152	93,5	150
25	169	98	160

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## Discharging Rates

(1/2" - 3/4" - 1"  
(DN15 - DN20 - DN25)

Pressure Difference psi (1 bar = 14.5 psi)



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