



SFK-61D: Threaded / SFK-61F: Flanged

# SFK-61 D/F

## FLOATING BALL STEAM TRAP

### GENERAL FEATURES

### THERMOSTATIC AIR RELEASE

There is not any lever, joint in this type of steam traps. Float is the only moving part. Float used in the steam trap; is made of high quality stainless steel and dimension tolerance is very low.

SPECIFICATIONS	ADVANTAGES
Single moving part	Easy to maintain, spare parts cost is low.
Easy opening cover	There is no need to disassemble from the line for maintenance.
Stainless steel float with precision surface	Less corrosion and long life
Easy access to drain orifice	Without dismantling the control and ease of intervention
The float turns away from the orifice with rotation.	Sudden response to condensation.
Float / Orifice relationship	It is not affected by back pressure.
The orifice is sufficiently below the water level.	Steam leakage is prevented.
Has thermostatic drainage element	The equipment is activated quickly without air locking.
It has an internal filter.	It protects the steam trap from dirt.
Steam interlock solver option	It is preferred when steam locking occurs. Improves plant efficiency and productivity.

### Cost Advantages of Floating Ball Steam Trap

- 1 - Lower cost due to equipment and installation
- 2 - There is little space occupation due to their size.
- 3 - Has filter on itself. No additional filter is required.
- 4 - The failure rate is very low due to the fact that it is a single moving part.
- 5 - Maintenance cost is very low.
- 6 - There is no leverage and connection because of that the high resistance of the water hammer.

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## Product Specifications

**Body and Cover:** AISI 316 Stainless Steel

**Inner Parts and Float :** Stainless Steel

**Connection :** Threaded, Flanged and Weld End

**Connection Type :** Horizontal

**Max. Working Pressure :** 16 bar

**Max Working Pre. Difference :** 13 bar

**Max. Working Temp. :** 220 °C

**Max. Pressure Difference :** ΔP 4,5/8/10/13 bar

## Working Principle

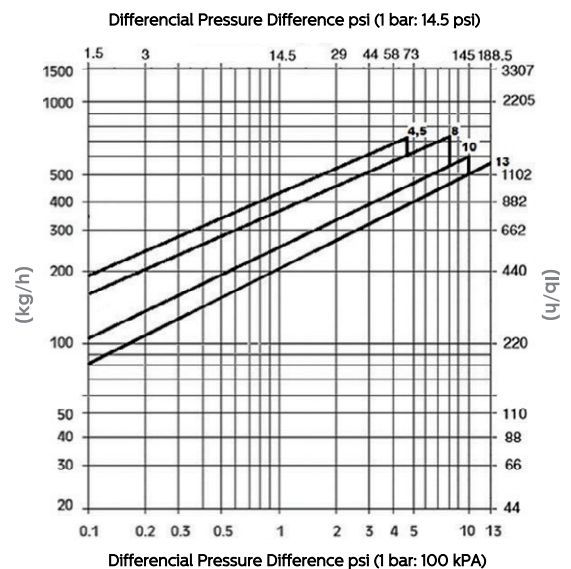
When the steam comes to steam trap, the air drag in front of the steam and discharged freely from the orifice opened by cold venting air outlet. Behind the air, the cold condensate enters the steam trap and allows the free float to rise, allowing the condensate to drain from the orifice.

Since the cold condensate is discharged, the device where the condensate is used (heat exchanger etc.) has reached its operating temperature increases. Condensate enters the steam trap with steam. The heated air, blocked the air release site and prevented steam escape. After that, the float can adjust itself according to the flow rate.

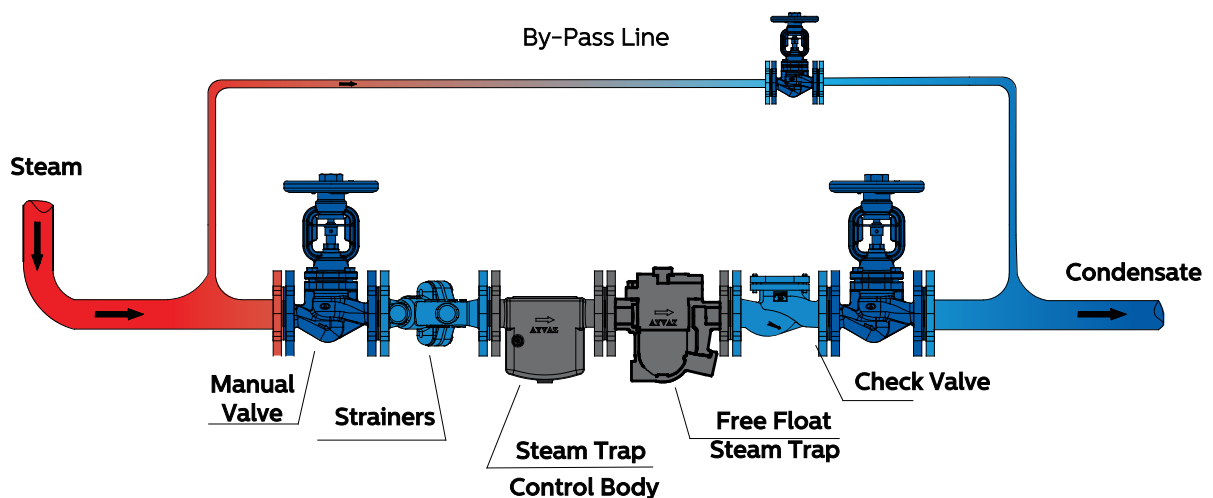
In order to prevent to steam leakage in the steam trap in addition to metal-metal sealing, a water level is maintained on the discharge orifice.

## Optional by-pass selection

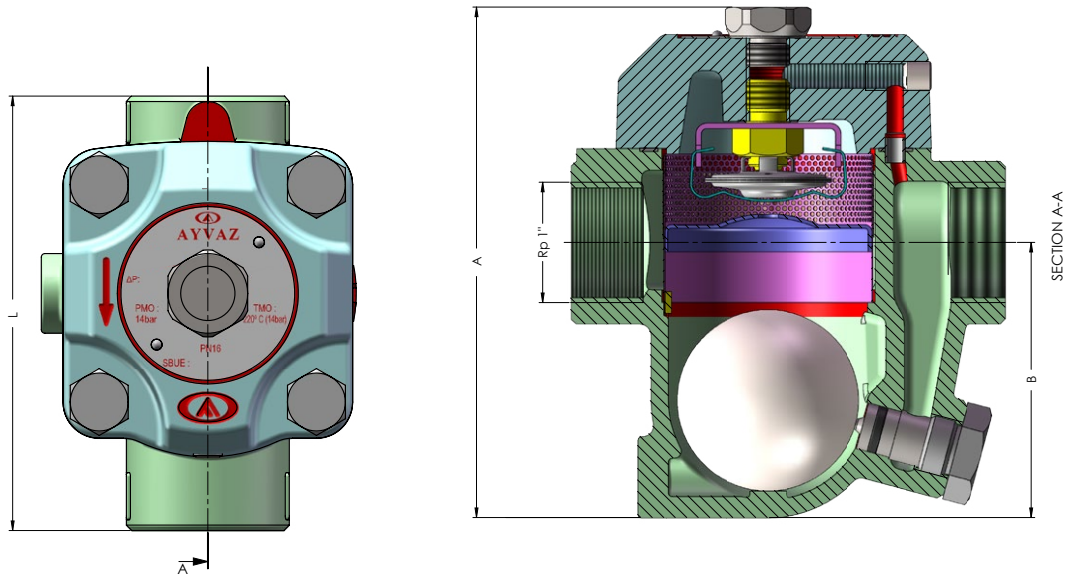
During the condensate discharge on dying cylinders, If steam locks the steam trap before the condensate discharge, by pass valve on the cover may open and provides the steam discharge.



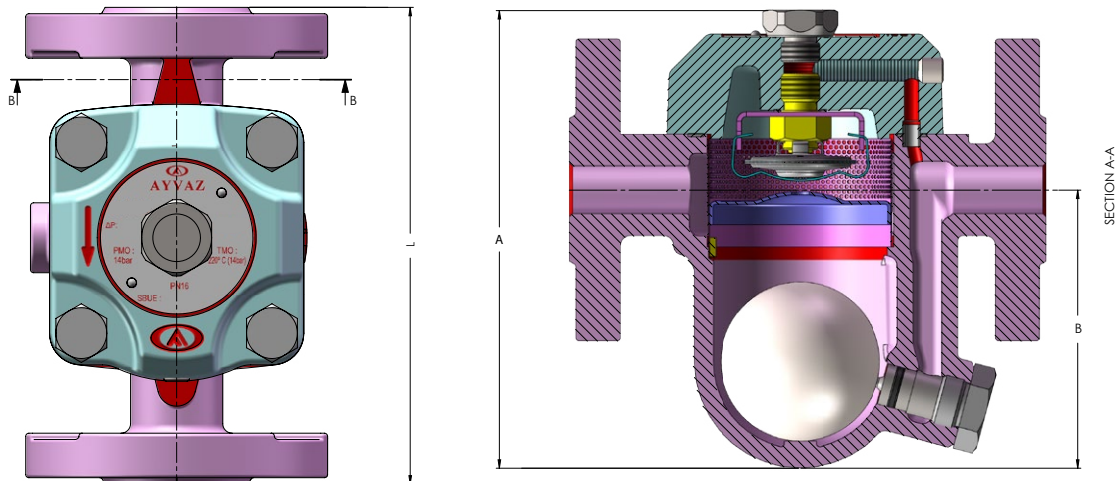
**Drain Amount**  
 (1/2" - 3/4" - 1"  
 (DN15 - DN20 - DN25)



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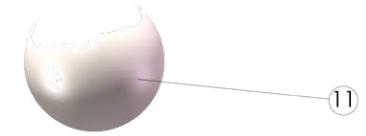
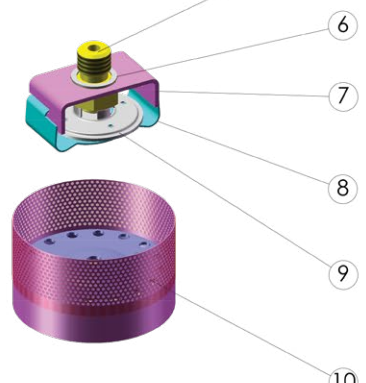
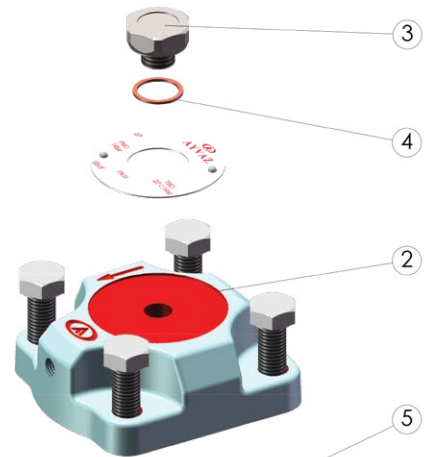
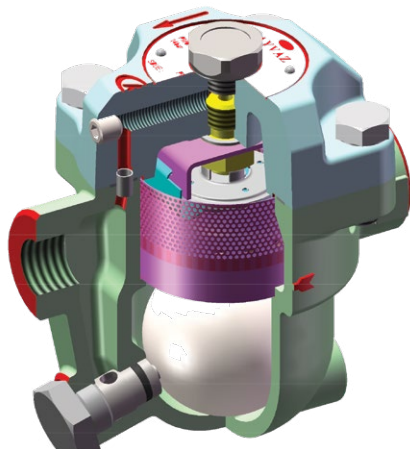


DN (mm)	A	B	L
15	134	73,5	120
20	134	73,5	120
25	141	76	120



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

# SFK-61 D/F FLOATING BALL STEAM TRAP



PART LIST			
No	Part Name	Material	
1	Body	Stainless Steel	
2	Cover	Stainless Steel	
3	Cover Cap	AISI 304 Stainless Steel	
4	Cap Gasket	Copper	
5	Capsule Sit	AISI 304 Stainless Steel	
6	Seat Gasket	AISI 304 Stainless Steel	
7	Thermostatic Unit Bottom Piece	AISI 304 Stainless Steel	
8	Thermostatic Unit Top Piece	AISI 301L Stainless Steel	
9	Thermostatic Capsule	Stainless Steel	
10	Strainers	AISI 304 Stainless Steel	
11	Float	AISI 304 Stainless Steel	
12	Cover Gasket	Graphite	
13	O-ring	Viton	
14	Orifice	AISI 431 Stainless Steel	
15	Cap Gasket	Copper	
16	Orifice Cap	Stainless Steel	

## SFK-61 FLOATING BALL STEAM TRAP



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