

# SK70 type CARBON STEEL BALL FLOAT STEAM TRAP

## CHARACTERISTICS

The SK70 steam trap is a float steam trap dedicated to steam installations purging. With its carbon steel construction, it is available with threaded connections and with PN16/25 flanged connections with standard face-to-face dimensions. This steam trap permits the evacuation of considerable quantities of condensate and can perfectly adapt to flow rate change. Consequently, it is particularly dedicated to process draining. Its standard version includes a built-in thermostatic air eliminator. It has to be mounted in a horizontal position and various internal mechanisms are possible, depending on pressure differential.



## DIMENSIONS (mm)

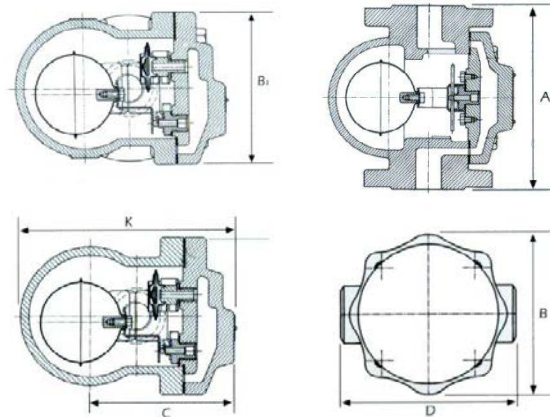
DN	A	K	B	B1	C	D
15	150	150	108	105	68	122
20	150	150	108	105	68	122
25	160	167	108	110	107	145

## AVAILABLE ITEMS

BSP threaded connections 1/2" - 3/4" - 1"  
 DN15, 20 and 25 with EN 1092 PN16/25/40 flanges  
 ΔP 4.5 / 10 / 14 bar

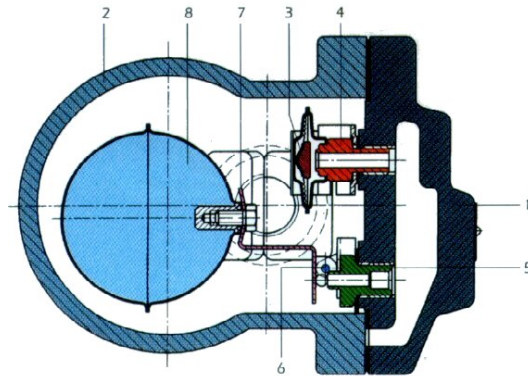
## LIMITS OF USE

Max. allowable pressure (PS)	25 bar
Saturated steam max. allowable pressure	14 bar
Max. allowable temperature (TS)	250 °C



## CONSTRUCTION


#	Item	Material
1	Body	1.0619 / A216 WCB stainless steel
2	Cover	1.0619 / A216 WCB stainless steel
3	Gasket	Graphite – Stainless steel
4	Thermostatic air eliminator	Stainless steel / hastelloy
5	Air eliminator seat	1.4301 stainless steel
6	Seat	1.4301 stainless steel
7	Lever	1.4301 stainless steel
8	Float	1.4301 stainless steel



## EC 97/23 DIRECTIVE CATEGORY

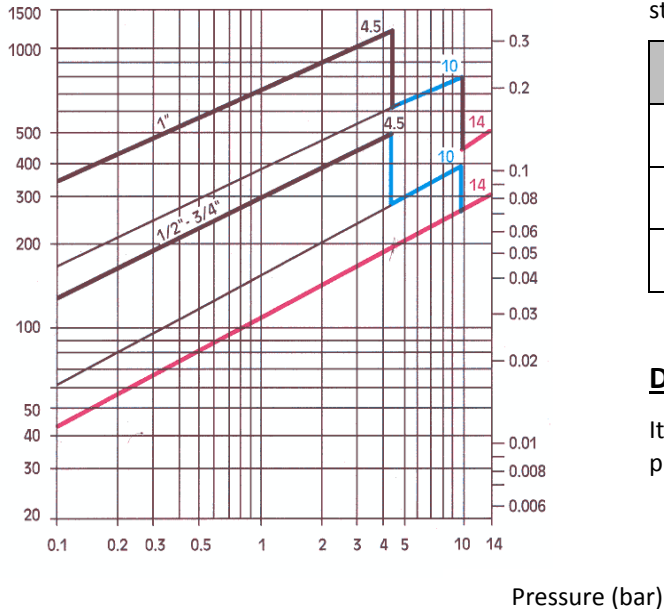
Excluded: Article 3, § 3

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		Rev.	
		Date	08/2009

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## FLOW CHART (kg/h)



## MOUNTING AND INSTALLATION

The SK70 steam trap has to be installed lower than the pipework to drain. It is delivered for a horizontal mounting standard. Upstream from the steam trap, it is recommended to install a Y strainer in order to avoid damages caused by impurities on the steam trap seat. The steam trap outlet has to be connected to the condensate return system or directed to waste. In this case, please respect the maximum temperature allowance for the environment.

The SK steam trap mounting position is very important for its effective operation. 2 mounting instructions should be respected:

- 1/ The SK has to be installed in a horizontal position, following the direction of the arrow marked on the body: steam upstream and condensate downstream.
- 2/ The arrow marked on the nameplate has to point downwards.

Before installing the steam trap, isolate and depressurize the line. Please wait until the complete cooling of the system.

Carefully clean the upstream piping.

Fix the steam trap on the pipes after having checked the above mounting instructions.

For the flanged SK steam trap, please choose flange gaskets that are adapted to the use on steam. Use the below nut type:

DN	Nbr of nuts	Diameter	Length
15 and 20	4	M14	50
25	4	M16	60
32, 40 and 50	4	M16	110

## DISMANTLING AND MAINTENANCE

It is not necessary to remove the steam trap to proceed to its maintenance.

1. Shut the upstream isolating valve off.
2. Drain the downstream piping.
3. Please make sure that there is no pressure and no temperature.
4. Unscrew the 4 screws and remove cover (*mark 2 on the drawing, page 1*).
5. Check the float (*mark 8*) and the whole mechanism conditions, particularly the seat condition (*mark 6*). Clean and repair the damaged pieces if necessary.
6. Check the thermostatic air eliminator (*mark 4*) and the seat condition. Replace the air eliminator if necessary and clean the seat.
7. Remount the cover (*mark 2*) by changing the body gasket (*mark 3*).

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