

FREE FLOAT STEAM TRAP TYPE SFK40

FEATURES

The SFK40 free float steam trap is dedicated to the blowdown of steam's lines. Manufactured in SG iron, the SFK40 steam trap exists either in screwed or in PN16 flanged connections with standardized face to face dimensions. This trap allows high draining's flow rates and can adapt itself to flow's variations. It is insensitive to waterhammer.

Therefore, it is highly recommended for the bleeding of processes like heat exchangers, autoclaves, condensers in the fields of chemistry, pharmaceutical industry and food industry.

As a standard, the SFK40 is fitted with a thermostatic cap for starting air venting. It must be horizontally installed and several built-in mechanisms are available depending on the pressure drop.



AVAILABLE MODELS

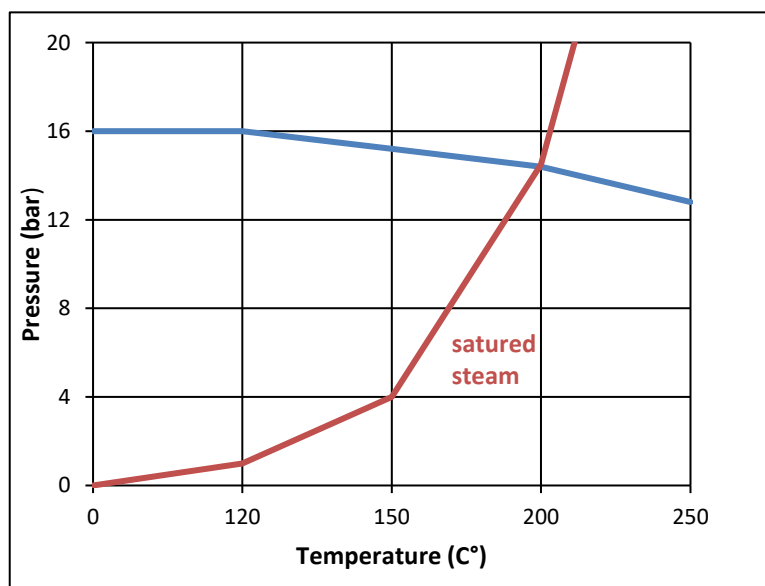
G screwed connections : G 1/2" - G 3/4" - G 1"

PN16 flanged connections : DN15, DN20 et DN25.

ΔP 4,5 / 10 / 14 bar.

LIMITS OF USE

PS fluid :	16 bar
TS fluid :	+0 °C / +220 °C
Use on saturated steam	14 bar / +200 °C



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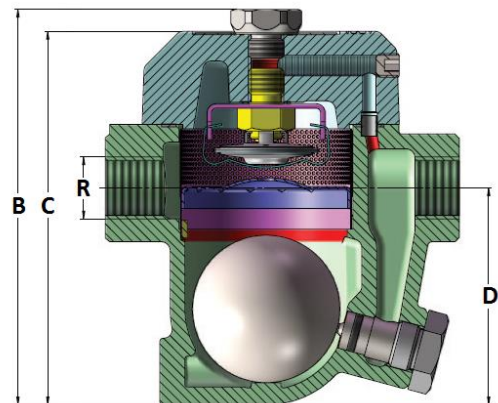
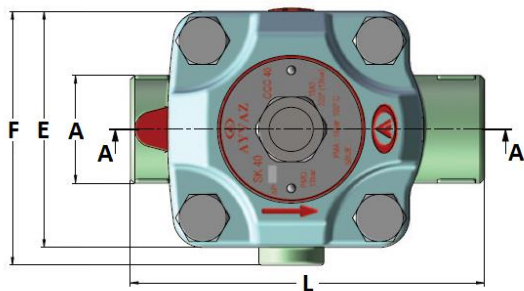
DIRECTIVES AND STANDARDS OF CONSTRUCTION

SUBJECT	Standard
P.E.D. 2014/68	G 1/2" to G 1" : A4 § 3 not submitted
	DN 15 to 25 : A4 § 3 not submitted
Cast iron grades	EN 1503-3
Screwed connections	ISO 228
Flanges	EN 1092-2
Face to face dimensions	EN 26554

DIMENSIONS (mm) AND WEIGHT (kg)

G screwed connections

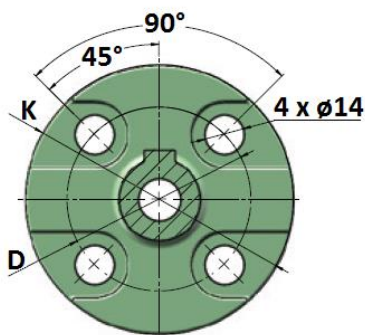
Size	A	B	C	R	D	E	F	L	Weight (kg)
1/2"	36,5	134	126,5	1/2"	73,5	80	86	120	2,6
3/4"	36,5	134	126,5	3/4"	73,5	80	86	120	2,7
1"	45	141	133,5	1"	76	80	86	120	2,8



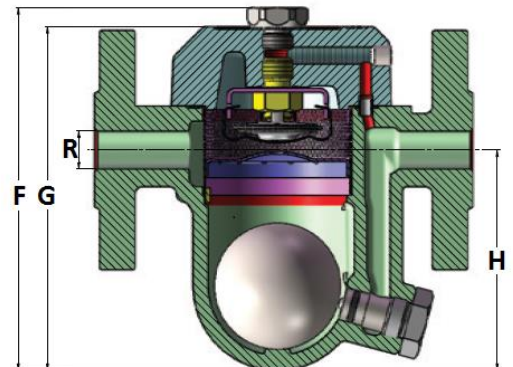
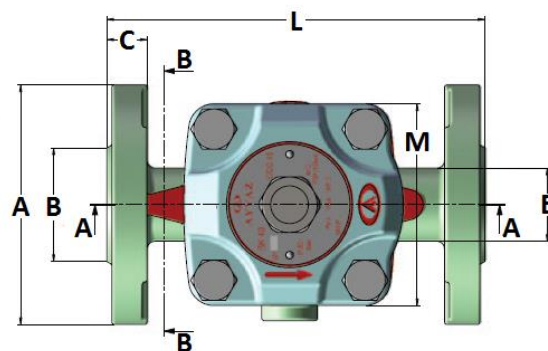
SECTION A-A

Flanges PN 16 connections

Size	A	B	C	L	E	F	G	R	H	K	D	M	Weight (kg)
15	95	45	16	150	29	144	136,5	15	87,5	95	65	80	4,25
20	105	58	18	150	34	152	144,5	20	93,5	105	75	80	5
25	116	68	19	160	38	159	151,5	25	98	116	85	80	5,4



SECTION B-B



SECTION A-A

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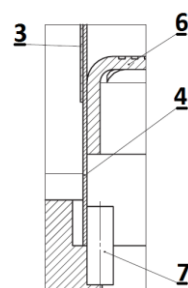
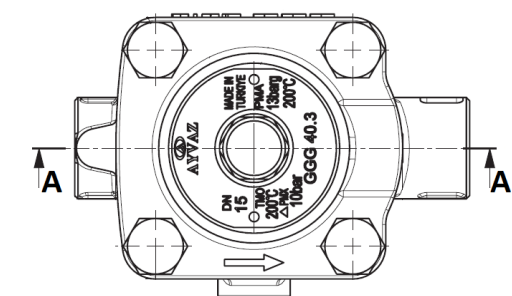
SECTORIEL S.A.
45 rue du Ruisseau
38290 SAINT QUENTIN-FALLAVIER – FRANCE
Tél : +33 4 74 94 90 70 – Fax : +33 4 74 94 13 95
www.sectoriel.com / Email : sectoriel@sectoriel.fr

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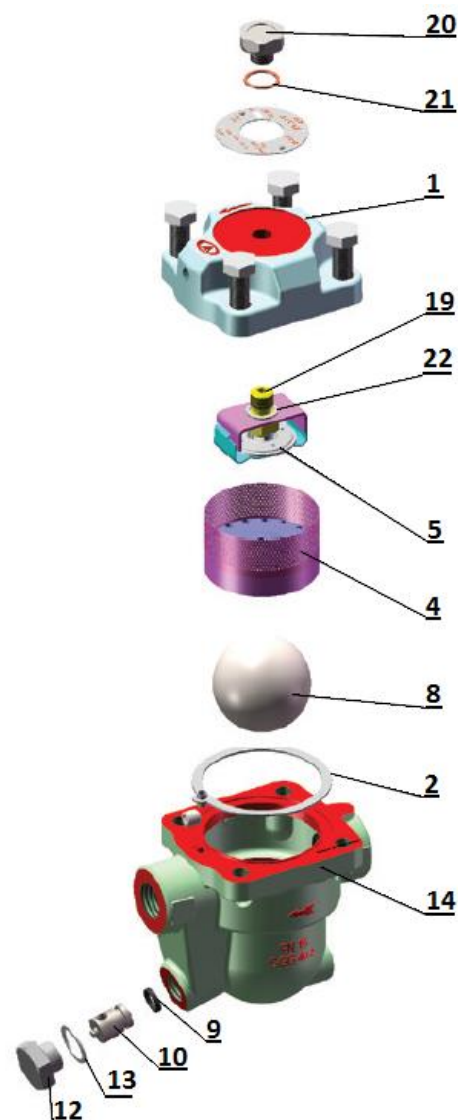
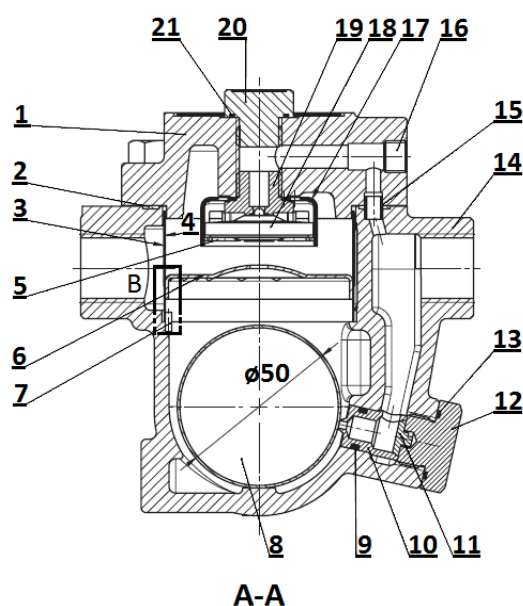
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CONSTRUCTION

N°	Qty	Name	Materials	N°	Qty	Name	Materials
1	1	Cover	EN-GJS-400-3 SG iron	12	1	Plug	304 stainless steel
2	1	Cover gasket	Graphite	13	1	Gasket	Copper
3	1	Screen	SS 304	14	1	Body	EN-GJS-400-3 SG iron
4	1	Strainer	SS 304	15	1	Centering pin	SS 416
5	1	Thermostatic cap	SS 304	16	1	Centering nut	SS 304
6	1	Grille	SS 304	17	1	Cover	SS 304
7	1	Pin	SS 304	18	1	Cap	
8	1	Float	SS 304L	19	1	Seat	SS 420 F
9	1	O-ring	FKM	20	1	Plug	SS 304
10	1	Seat	SS 303	21	1	Gasket	Copper
11	1	Tube	SS 303	22	4	Seat's gasket	SS 304



DETAIL

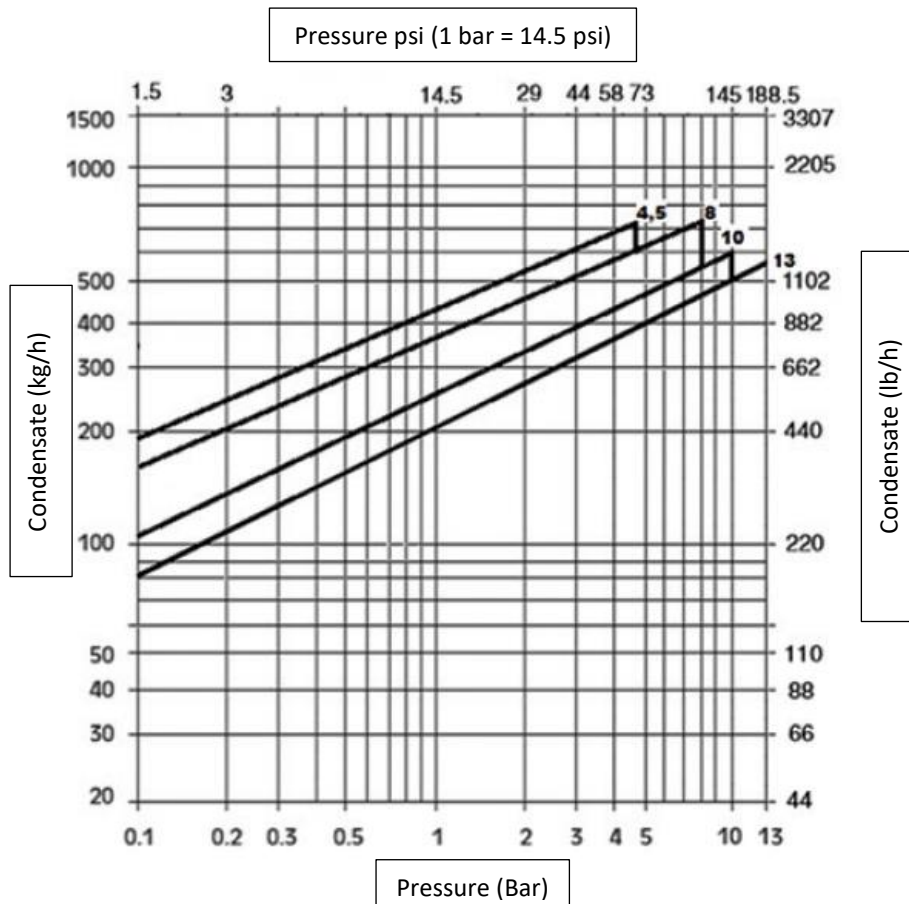


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CONDENSATE FLOW RATE



INSTALLATION

The SFK40 steam trap must be installed at the lowest point of the piping to drain. As a standard, it is delivered for horizontal installation. Upstream the trap it is recommended to install a shut-off valve and a Y strainer to avoid any damage on the seat due to the passing of impurities. Downstream the trap must be connected to the condensate loop or to the sewage.

MOUNTING

While installing the SKF40, the right position has to be respected to allow the operation of the trap. Please respect the following two directions.

- 1 - SKF40 has to be installed horizontally taking care of the direction of the arrow stamped on the body : from steam pipe (upstream) to condensate pie (downstream).
- 2 - Moreover the arrow written on the body must be pointed to the ground.
- 3 - Before installing the trap, shut of the line and remove the pressure. Wait for complete cooling of the line before any operating.
- 4 - Clean carefully the upstream line.
- 5 - Screw the trap on the line after having verified the direction of the two arrows.
- 6 - For the flanged type, use flange's gaskets adapted to steam service.

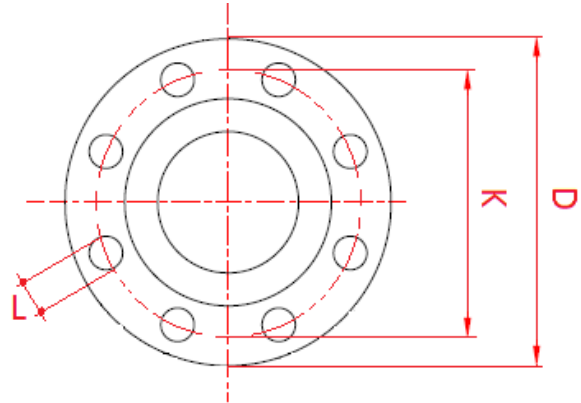
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For the bolting of flanges, use following dimensions :

ISO PN16 flange dimensions					
DN	D	K	L	Qty	Ø
15	95	65	14	4	M12
20	105	75	14	4	M12
25	116	85	14	4	M12



MAINTENANCE

It is not necessary to disassemble the trap from the pipe to proceed to his maintaining.

- 1 - Shutt-off the upstream valve.
- 2 - Drain the downstream line.
- 3 - Verify that there is no pressure and temperature inside the line.
- 4 - Unscrew the 4 bolts of the cover (item 1).
- 5 - Verify the state of the float (item 8). Also verify the state of the seat (item 19). Clean and/or replace the damaged parts if necessary.
- 6 - Verify the state of the capsule (item 5). Replace it if necessary and clean the seat.
- 7 - Replace the body gasket and re-assemble the cover (item 1).

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