

## Thermodynamic Steam Traps [TST]

DN 15 ( 1/2" ) ÷ DN 50 ( 2" )

PN 16 ÷ PN 63

Class 150 ÷ Class 300

### Design

- Forged body and cover
- Disc from hardened stainless steel
- Hard faced stainless steel seats welded on
- Basic design with internal ISO 7-1, Rp thread
- Filter-Net is made of stainless steel

### Applications

- Steam traps are designed specifically for separating condensate from steam line with a variable quantity of condensate.

### Pressure and temperature

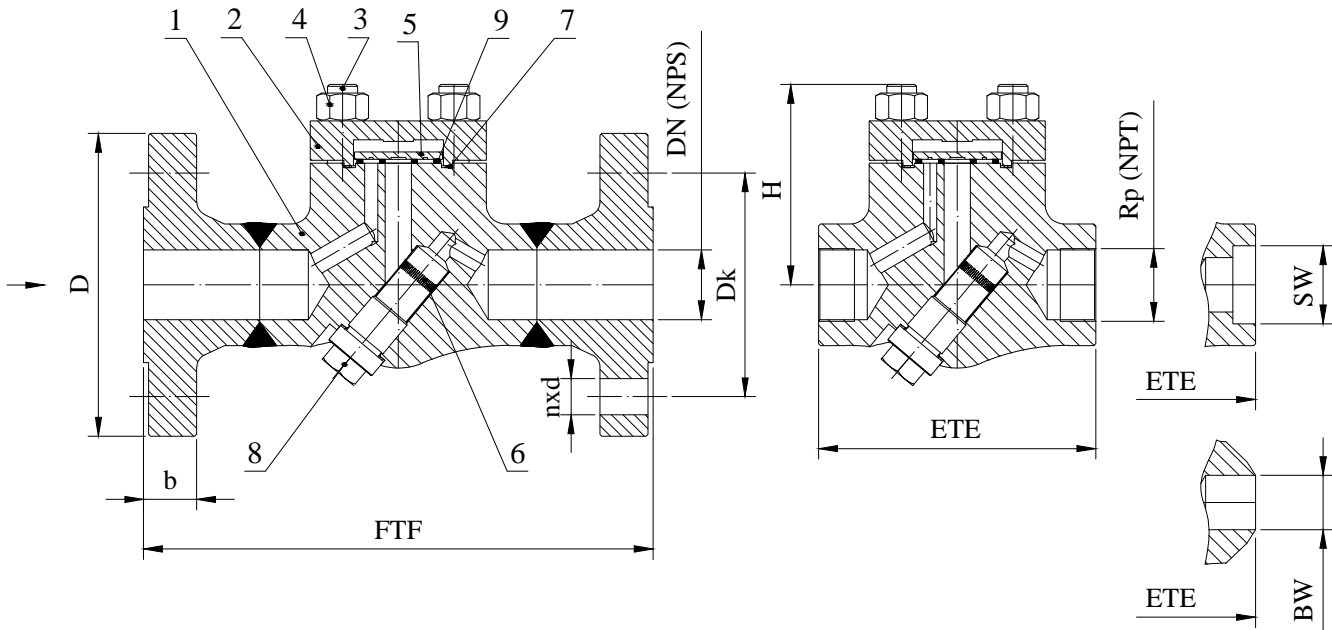
- Pressure up to 63 bar
- Temperature up to 425°C

### Options

- Traps with other type of connecting thread
- Traps with Socket welding ends-SW
- Traps with flanged ends

### Installation instructions

- Before installation and first run, the connecting pipeline should be thoroughly cleaned of all impurities and extraneous materials
- Take care of the direction of the permitted flow which is indicated by arrow on the valve body
- Recommended installation in horizontal position, with the cover uppermost
- In case of insufficient flow capacity two steam traps can be installed in parallel positions
- The Steam nozzle can be free to atmosphere or piped for steam collection
- Care must be taken in the latter case to respect differential pressure



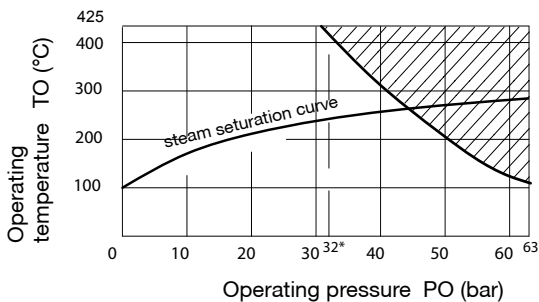
Drawing G.1.1 Parts and dimensions

List of materials

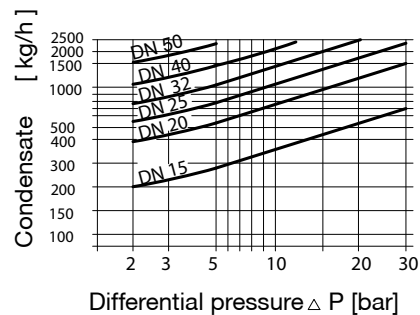
Table G.1.1

Item	Part	Application
		- 25 °C do 425 °C
1	Body	A 105
2	Cover	A 105
3	Bolts	A 193 B7 / 1.7225
4	Nuts	A 194 2H / 1.1191
5	Disc	1.4021-hardened
6	Filter-Net	1.4301
7	Cover Gasket	soft steel
8	Plug	1.4021
9	Body Seat	min 13% Cr welded on

Drawing G.1.2 Operating range



Drawing G.1.3 Capacity



The product must not be used in this area (acc. DIN 2401, for C22.8)

\* PMO- maximum operating pressure by TMA  
 TMO- maximum operating temperature 400° C (up to PMO)  
 Δ PMN - min. diferentila pressure: 0,5 bar

Boundary conditions(by ISO 6552):

PMA - Maximum allowable pressure: 63 bar

TMA - Maximum allowable temperature: 425°C

**[TST] Dimensions PN 16 ÷ PN 63, Class 150 ÷ Class 300**
**Table G.1.2**

DN	ETE	SW	H	(kg)
	(mm)			
15	84	21,8	63	1,4
20	90	27,2	71	2,1
25	114	33,9	81	3,4
32	180	42,7	107	6,9
40	180	48,8	107	6,9
50	210	61,2	121	10,7

End connections can be with internal threaded (Rp or NPT), butt welding (BW) or socket welding ends (SW).

**[TST] Dimensions PN 25/ PN 40 with flanged ends**
**Table G.1.3**

DN	FTF	D	b	Dk	d	n	H	(kg)
	(mm)							
15	130	95	16	65	14	4	63	3,0
20	150	105	18	75	14	4	71	4,5
25	160	115	18	85	14	4	81	6,2
32	180	140	18	100	18	4	107	10,9
40	200	150	18	110	18	4	107	11,5
50	230	165	20	125	18	4	130	15,0

**[TST] Dimensions PN 63 with flanged ends**
**Table G.1.4**

DN	FTF	D	b	Dk	d	n	H	(kg)
	(mm)							
15	210	105	20	75	14	4	63	3,8
20	230	130	22	90	18	4	71	6,1
25	230	140	24	100	18	4	81	8,6
32	260	155	25	110	22	4	107	13,1
40	260	170	28	125	22	4	107	14,9
50	300	180	26	135	22	4	130	18,0

**[TST] Dimensions Class 150 with flanged ends**
**Table G.1.5**

DN	FTF	D	b	Dk	d	n	H	(kg)
	(mm)							
15 (1/5)	108	90	11,6	60,3	15,9	4	63	2,9
20 (3/4)	117	100	13,2	69,9	15,9	4	71	4,1
25 (1)	127	110	14,7	79,4	15,9	4	81	5,6
32 (1 1/4)	140	115	16,3	88,9	15,9	4	107	9,7
40 (1 1/2)	165	125	17,9	98,4	15,9	4	107	10,5
50 (24)	203	150	19,5	120,7	19,0	4	130	14,5

**[TST] Dimensions Class 300 with flanged ends**
**Table G.1.6**

DN	FTF	D	b	Dk	d	n	H	(kg)
	(mm)							
15 (1/5)	152	95	14,7	99,7	15,9	4	63	3,4
20 (3/4)	178	115	16,3	82,6	19,0	4	71	4,9
25 (1)	203	125	17,9	88,9	19,0	4	81	7,0
32 (1 1/4)	216	135	19,5	98,4	19,0	4	107	10,5
40 (1 1/2)	229	155	21,1	114,3	22,2	4	107	13,1
50 (24)	267	165	22,7	127,0	19,0	4	130	17,5

**Notes**

