

FLOAT AND THERMOSTATIC STEAM TRAPS FLT150

DESCRIPTION

The FLT150S float and thermostatic (integral air vent) steam traps series are designed for all types of low and medium pressure steam heating and process equipment.

Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.

Specially designed for sugar and alcohol refineries and where extremely high flow rates are involved.

MAIN FEATURES

Modulating discharge.

Discharges condensate at steam temperature.

Unaffected by sudden or wide load and pressure changes.

Excellent air discharge (by high capacity thermostatic air vent).

OPTIONS: By-pass valve with aperture indicator.

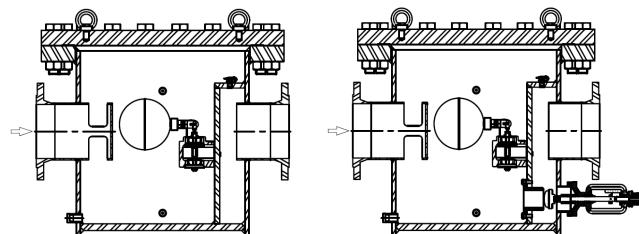
USE: Saturated steam.

AVAILABLE

MODELS: FLT150S-TW – double mechanism.
FLT150S-O – single mechanism w/ orifice.

SIZES: 4" to 6"; DN 100 to DN 150.

CONNECTIONS: Flanged EN 1092-1 PN 6, PN 10 or PN 16.
Flanged ASME B16.5 Class 150 or 300.



BODY LIMITING CONDITIONS *

FLANGED PN 6 ALLOW. PRESS.	FLANGED PN 10 ALLOW. PRESS.	FLANGED PN 16 / CLASS 150 ALLOW. PRESS.	RELATED TEMP.
6 bar	10 bar	16 bar	50 °C
5,5 bar	9,2 bar	14,8 bar	100 °C
5 bar	8,3 bar	13,3 bar	200 °C
4,5 bar	7,6 bar	12,1 bar	250 °C

PMO – Maximum operating pressure: 12 bar;
TMO – Maximum operating temperature: 250 °C.
* Acc. to EN 1092-1:2018.

CE MARKING – GROUP 2 (PED – European Directive)

PN 6 / PN 10	Category
4" to 6" – DN 100 to DN 150	2 (CE marked)
PN 16	Category
4" to 6" – DN 100 to DN 150	3 (CE marked)

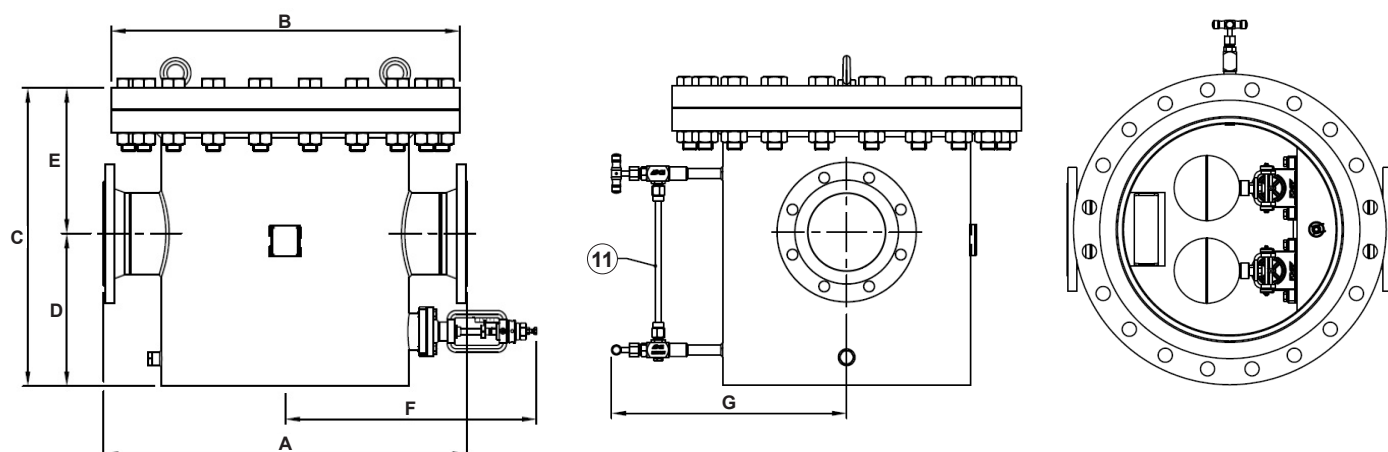
FLOW RATE CAPACITY WITH SINGLE MECHANISM AND ORIFICE (kg/h)

MODEL	ORIFICE N°	O1	O2	O3	O4	O5	O6	MAXIMUM ΔQ
	ΔP (bar)	DN 100				DN 150		
FLT150S-O	0,1	22300	24100	26600	33700	43600	56400	18800
	0,3	27400	30300	34200	45400	61200	81400	22700
	0,7	32200	36200	41800	57700	79900	108600	26200
	1	34700	39500	46500	65800	93100	128100	27700
	1,4	37000	42600	50500	72900	104400	144900	29200
	2	40700	47600	57200	84800	144900	172900	31700

Example: One FLT150-O DN150-O5 (with orifice n° 5), operating at a D.P. of 0,3 bar, must have a minimum flow of 38500 kg/h (61200-22700).

FLOW RATE CAPACITY WITH DOUBLE MECHANISM WITHOUT ORIFICE (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)															
		0,1	0,3	0,5	1	1,5	2	2,5	3	3,5	4	5	6	7	8	10	12
FLT150S-TW	4" to 6" DN100 to 150	37600	45400	49000	58000	62000	68000	74000	76000	79000	84000	87000	91000	94000	96000	99000	100000



DIMENSIONS (mm)

RATING	SIZE	A PN 16	A CLASS 150	A CLASS 300	B	C	D	E	F	G	WEIGHT (kg)
PN 6	4" – DN 100	745	808	827	645	590	312	279	515	480	231
	5" – DN 125	745	827	846	645	590	312	279	515	480	240
	6" – DN 150	745	827	846	645	590	312	279	515	480	247
PN 10	4" – DN 100	745	794	813	670	595	312	284	515	480	270
	5" – DN 125	745	813	832	670	595	312	284	515	480	276
	6" – DN 150	745	813	832	670	595	312	284	515	480	284
PN 16	4" – DN 100	745	794	813	715	610	312	298	515	480	377
	5" – DN 125	745	813	832	715	610	312	298	515	480	385
	6" – DN 150	745	813	832	715	610	312	298	515	480	401

MATERIALS

POS. N°	DESIGNATION	MATERIAL
1	Body	P265GH / 1.0425; P235GH / 1.0345; S235JR / 1.0038
2	Cover	P250GH / 1.0460
3	* Gasket	Graphite
4	* Seat	A351 CF8 / 1.4308
5	* Valve	AISI 420 / 1.4021; A351 CF8M / 1.4408
6	* Lever	AISI 316 / 1.4401; AISI 304 / 1.4301
7	* Float	AISI 304 / 1.4301
8	* Air vent	Stainless steel (thermostatic)
9	Bolts	Steel 8.8
10	By-pass valve	GJS-400-15 / 0.7040
11	Level indicator	Bronze; Borosilicate glass

* Available spare parts.

