

FLOAT AND THERMOSTATIC STEAM TRAPS FLT49TW (Stainless steel ; 3" and 4" – DN 80 and DN 100)

DESCRIPTION

The FLT49TW is a range of high capacity float and thermostatic steam traps with integral air vent designed for modulating discharge of condensate, ensuring maximum system heat transfer. Typical applications include unit heaters, heat exchangers, dryers, jacketed vessels and other applications where continuous discharge is essential and high flow capacities are involved.

MAIN FEATURES

Modulating discharge of condensate at steam temperature.
Unaffected by sudden or wide load and pressure variations.
No backing-up with condensate.
Excellent air discharge through its integrated air vent.
Flow direction can be easily changed by repositioning the body in relation to the mechanism and cover.

OPTIONS: Equalizing (vent) and drain connections.
HVV – Hand vent valve.
BDV – Blowdown valve.
AFZ – Anti-freeze device.
VB21M – Vacuum breaker.

USE: Saturated and superheated steam.

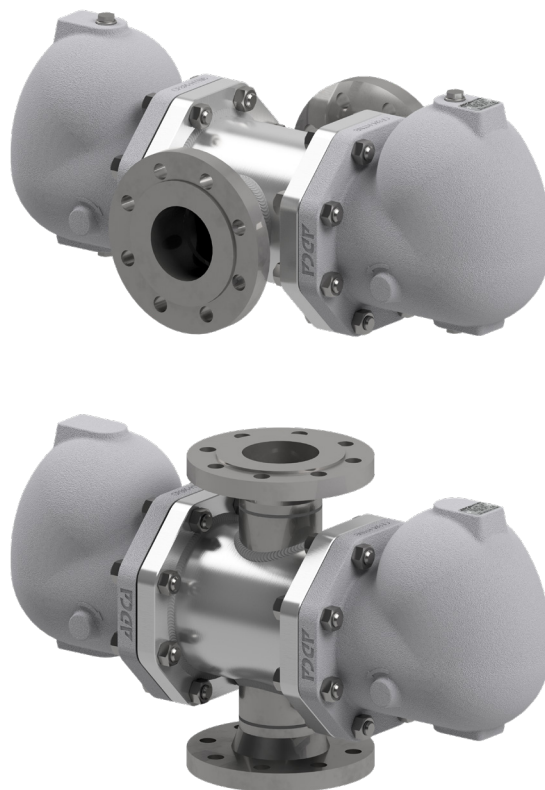
AVAILABLE MODELS: FLT49TW-4,5 , 10 , 21 and 32 – stainless steel.

SIZES: 3" and 4"; DN 80 and DN 100.

CONNECTIONS: Flanged EN 1092-1 PN 16 or PN 40.
Flanged ASME B16.5 Class 150 or 300.

INSTALLATION: Horizontal or vertical installation.

ΔPMX: FLT49TW-4,5 – 4,5 bar
FLT49TW-10 – 10 bar
FLT49TW-21 – 21 bar
FLT49TW-32 – 32 bar



CE MARKING – GROUP 2 (PED – European Directive)

PN 16	PN 40	Category
3" and 4" DN 80 and 100	–	1 (CE marked)
–	3" and 4" DN 80 and 100	2 (CE marked)

BODY LIMITING CONDITIONS

FLANGED PN 16 *	FLANGED PN 40 *	FLANGED CLASS 150 **	FLANGED CLASS 300 **	RELATED TEMPERATURE
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
15,1 bar	37,9 bar	13,3 bar	34,4 bar	100 °C
12,7 bar	31,8 bar	11,1 bar	28,8 bar	200 °C
11,9 bar	29,9 bar	10,2 bar	26,6 bar	250 °C
11 bar	27,6 bar	9,7 bar	25,2 bar	300 °C

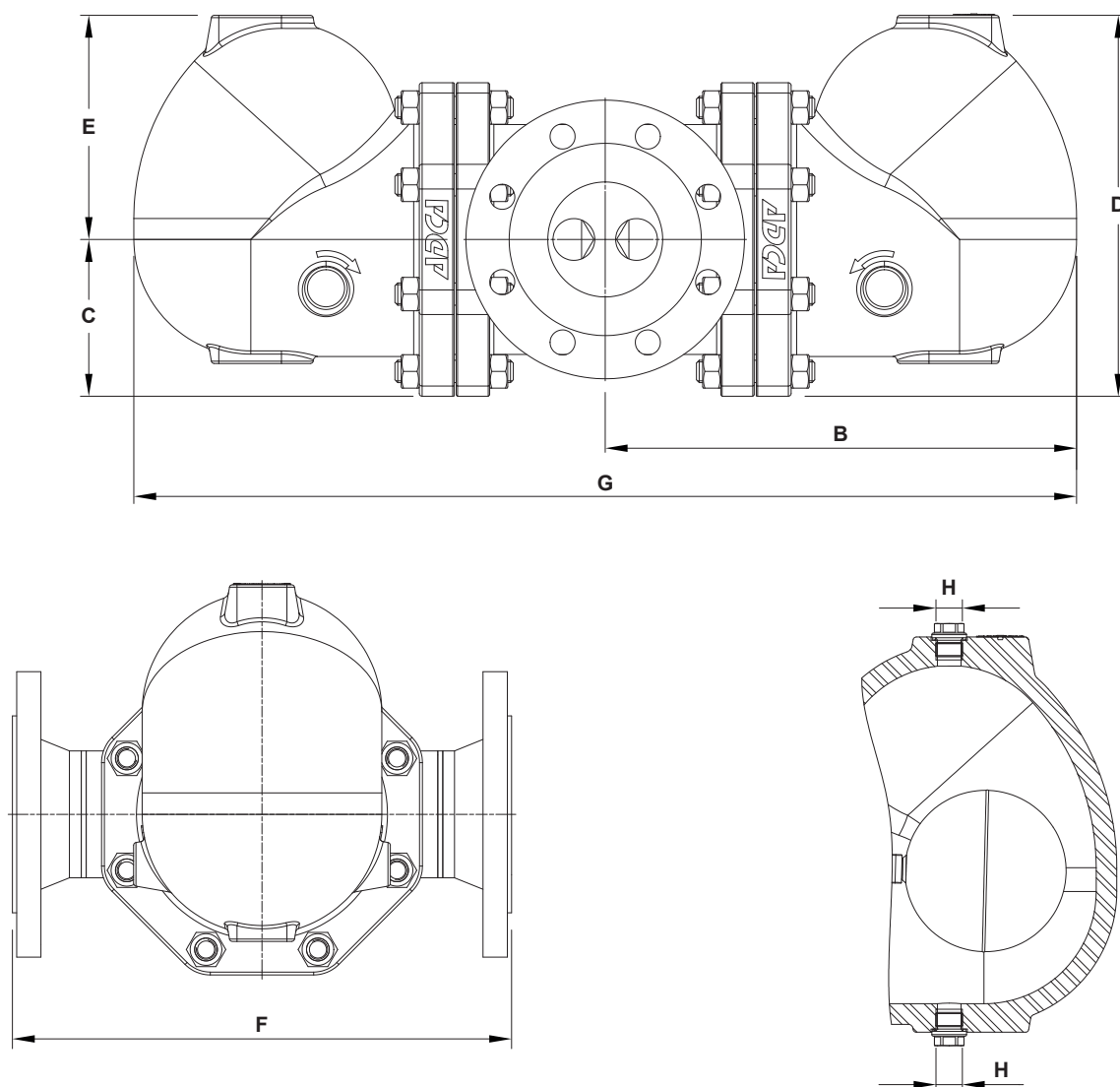
PMO – Maximum operating pressure: 32 bar; TMO – Maximum operating temperature: 250 °C.

* According to EN 1092-1:2018; ** According to EN 1759-1:2004.

Body limiting conditions PN 40 or below, depending on the type of connection adopted.

FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT49TW-4,5	3" and 4" – DN 80 and 100	15100	22000	28000	31000	45000	–	–	–	–	–	–	–	–
FLT49TW-10	3" and 4" – DN 80 and 100	7800	10000	12200	14200	20000	27500	32000	–	–	–	–	–	–
FLT49TW-21	3" and 4" – DN 80 and 100	3800	5400	6200	7200	10000	13800	16200	18000	19600	20100	22300	–	–
FLT49TW-32	3" and 4" – DN 80 and 100	3800	5400	6200	7200	10000	13800	16200	18000	19600	20100	22300	24000	25100

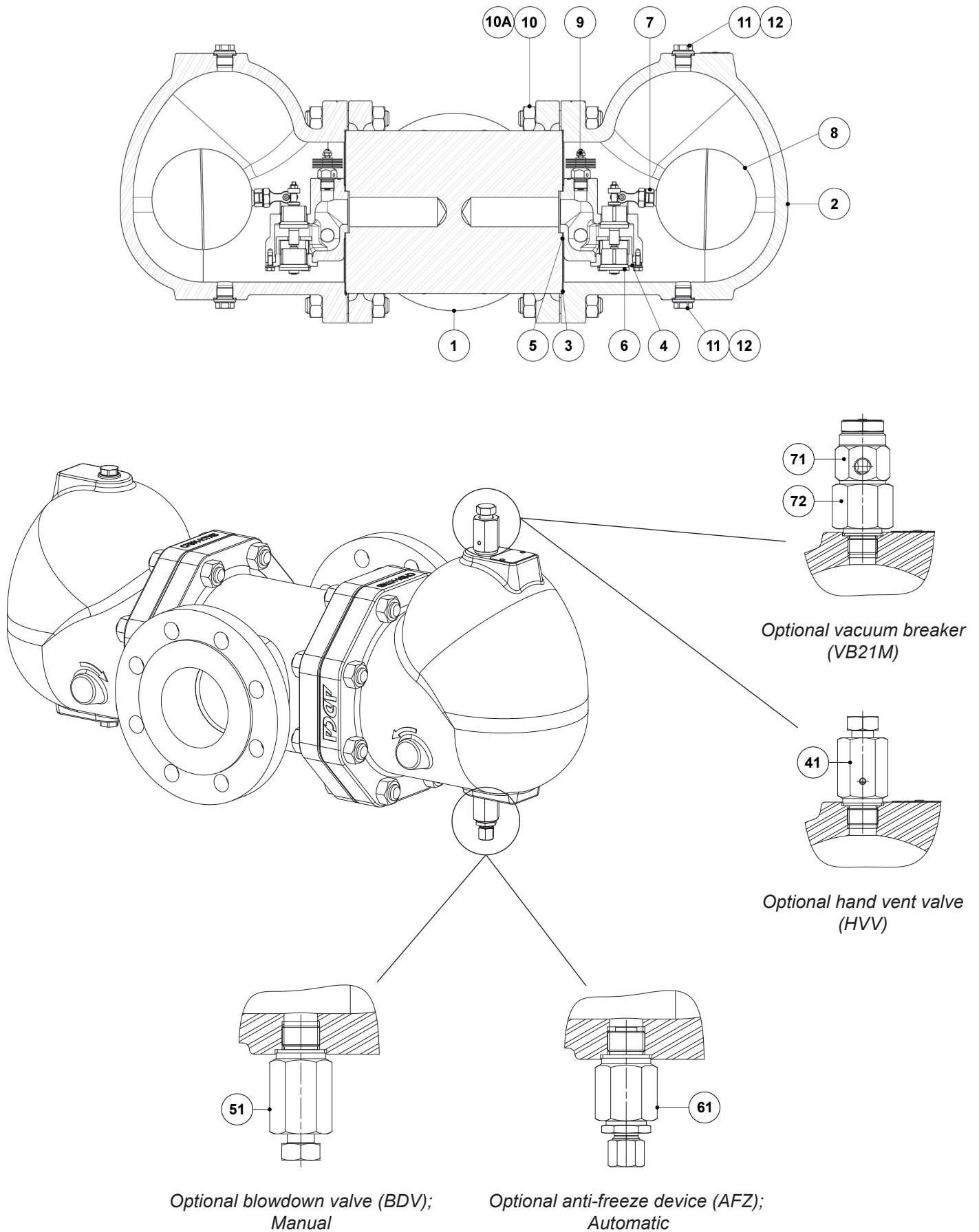


DIMENSIONS (mm)

SIZE	PN 16								PN 40	CLASS 150	CLASS 300
	B	C	D	E	F	G	H *	WEIGHT (kg)	WEIGHT (kg)	WEIGHT (kg)	WEIGHT (kg)
3" – DN 80	339	113	273	161	350	677	3/8"	90,8	92,4	92	96
4" – DN 100	339	113	273	161	350	677	3/8"	90,3	93,8	94	102,5

* As standard, in versions with EN flanges, these connections are female threaded ISO 228. In versions with ASME flanges, these connections are female threaded NPT.

MATERIALS

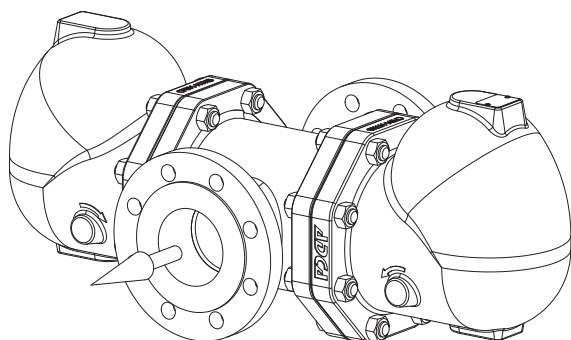


MATERIALS

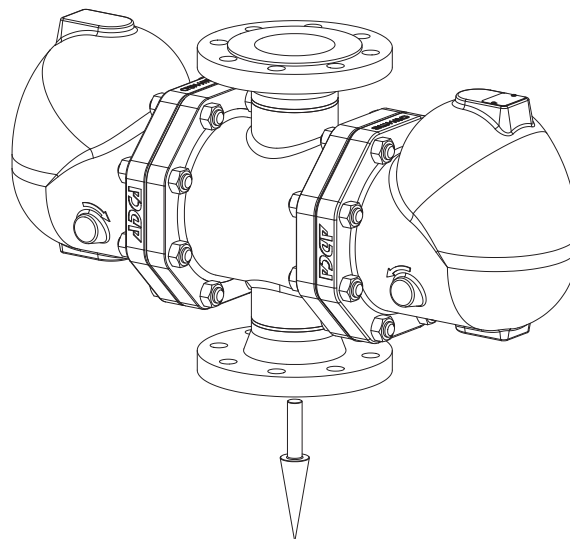
POS. N°	DESIGNATION	MATERIAL
1	Body	AISI 304 / 1.4301; AISI 316L / 1.4404
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless st. (bimetallic)
10	Stud	Stainless steel A2-70
10A	Nut	Stainless steel A2-70
11	Plug	AISI 316L / 1.4404
12	** Gasket	Copper; AISI 304 / 1.4301
41	Hand vent valve	AISI 303 / 1.4305; AISI 316L / 1.4404
51	Blowdown valve	AISI 303 / 1.4305; AISI 316L / 1.4404
61	Anti-freeze device	AISI 303 / 1.4305; AISI 316L / 1.4404
71	Vacuum breaker	AISI 303 / 1.4305
72	Adapter fitting	AISI 303 / 1.4305

* Available spare parts; ** Not applicable in NPT version.

FLOW DIRECTION



IH - Horizontal



IT - Vertical from top to bottom

ORDERING CODES FLT49TW									
Model	A49T	2	V	XX	IH	L	80	E	
FLT49TW – A351 CF8M / 1.4408 stainless steel	A49T								
Maximum allowable differential pressure (ΔPMX)									
4,5 bar									
10 bar									
21 bar									
32 bar									
Automatic air vent									
Bimetallic air vent (standard)									
None									
Cover connections									
None		XX							
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)		10							
Options									
HVV, BDV, AFZ and VB21M have specific separated ordering codes, please refer to the appropriate documentation.									
Flow direction									
Horizontal					IH				
Vertical from top to bottom					IT				
Pipe connections									
Flanged EN 1092-1 PN 16						L			
Flanged EN 1092-1 PN 40						N			
Flanged ASME B16.5 Class 150						U			
Flanged ASME B16.5 Class 300						V			
Size									
3" or DN 80							80		
4" or DN 100							100		
Special construction / Additional options									
A full description must to be provided and validated in case of a non-standard construction.									E