

FLOAT AND THERMOSTATIC STEAM TRAPS

FLT14I

(1/2" – 3/4"; DN 15 – DN 20)

DESCRIPTION

The FLT14I float and thermostatic (integral air vent) steam traps series are designed for all types of low and high 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.

MAIN FEATURES

- Modulating discharge.
- Discharges condensate at steam temperature.
- Unaffected by sudden or wide load and pressure changes.
- Excellent air discharge (by thermostatic air vent).

OPTIONS: SLR – steam lock release.
Equalizing plug or vent connection.

USE: Saturated and superheated steam.

AVAILABLE

MODELS: FLT14I-4,5 , 10 and 14 – stainless steel.

SIZES: 1/2" to 3/4"; DN 15 to DN 20.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1 PN 16.
Flanged ASME B16.5 Class 150.
Socket weld (SW) ASME 16.11.
Butt weld (BW) ASME B16.25 on request.

INSTALLATION: Standard horizontal installation – from right to left (R-L). See IMI.
On request: Horizontal installation with the flow from left to right (L-R) or vertical with the flow from top to bottom (V).

MAX. ΔP: FLT14I-4,5 – 4,5 bar
FLT14I-10 – 10 bar
FLT14I-14 – 14 bar



CE MARKING – GROUP 2 (PED – European Directive)

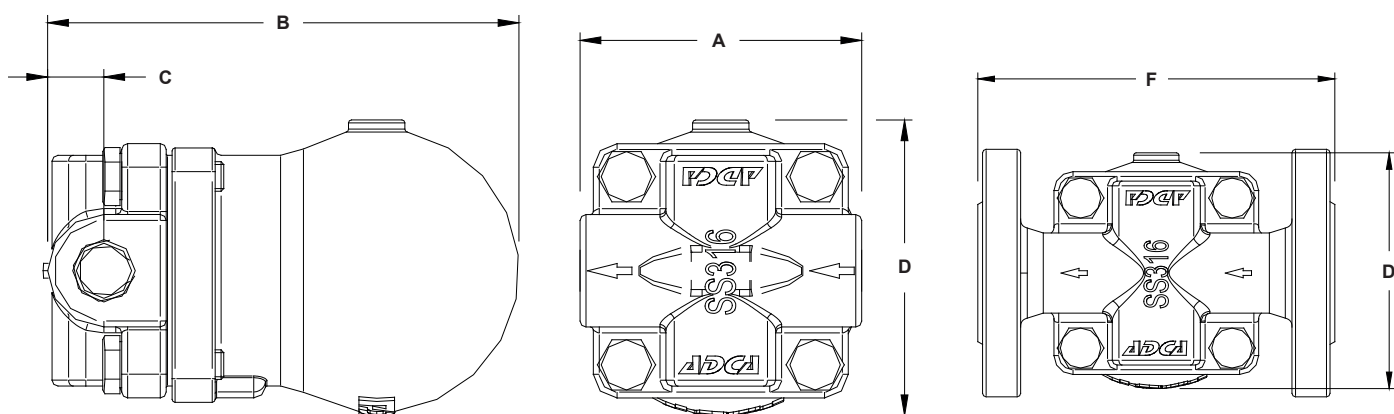
PN 16	Category
1/2" to 3/4" – DN 15 to DN 20	SEP

BODY LIMITING CONDITIONS		
FLANGED PN 16 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
16 bar	13,3 bar	100 °C
14,5 bar	12 bar	150 °C
13,4 bar	11,1 bar	200 °C
12,7 bar	10,2 bar	250 °C

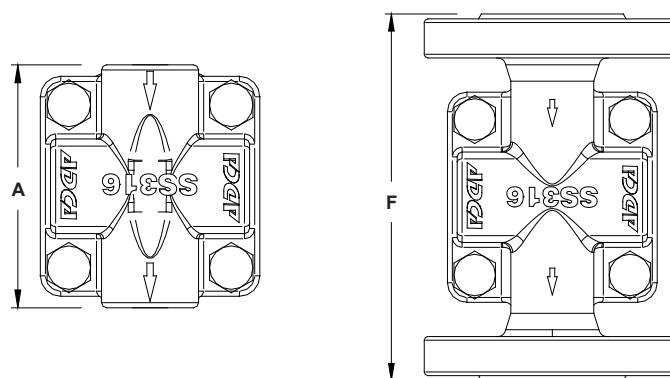
PMO – Maximum operating pressure: 14 bar;
TMO – Maximum operating temperature: 198 °C.
* Acc. to EN 1092-1:2018; ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 16 or below, depending on the type of connection adopted. Rating PN 16 for threaded, SW and BW versions.

FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	3	4,5	6	7	8	9	10	12	14
FLT14I-4,5	1/2" to 3/4" DN 15 to 20	200	280	320	360	400	495	–	–	–	–	–	–	–
FLT14I-10	1/2" to 3/4" DN 15 to 20	110	140	175	190	230	280	300	330	350	390	405	–	–
FLT14I-14	1/2" to 3/4" DN 15 to 20	70	100	120	140	155	190	210	220	225	230	260	280	300



Horizontal Installation (R-L)

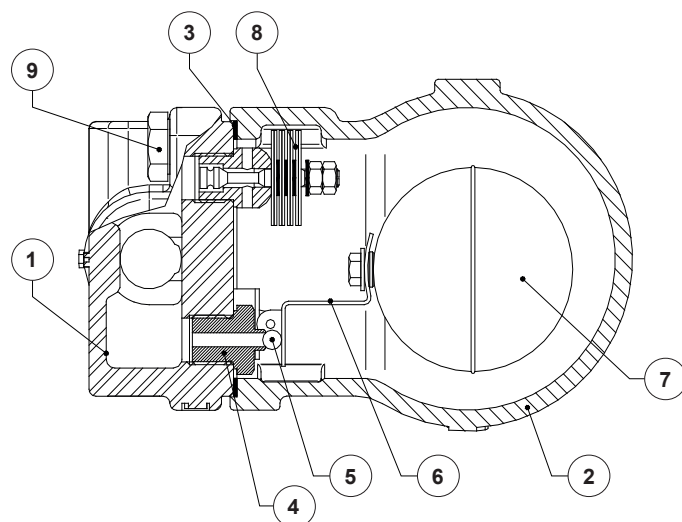


Vertical Installation (V)

DIMENSIONS (mm)									
SIZE	THREADED / SW				WEIGHT (kg)	PN 16		CLASS 150	
	A	B	C	D		F	WEIGHT (kg)	F	WEIGHT (kg)
1/2" – DN 15	95	160	23	100	3,5	150	5	150	4,5
3/4" – DN 20	95	160	23	100	3,5	150	5,5	150	4,7

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	A351 CF8M / 1.4408
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 410 / 1.4006
5	* Valve	AISI 440C / 1.4125
6	* Lever	AISI 304 / 1.4301
7	* Float	AISI 304 / 1.4301
8	* Air vent	Stainless st. (bimetallic)
9	Bolts	Stainless steel A2-70

* Available spare parts.



FLOAT AND THERMOSTATIC STEAM TRAPS

FLT14I

(1" – DN 25)

DESCRIPTION

The FLT14I float and thermostatic (integral air vent) steam traps series are designed for all types of low and high 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.

MAIN FEATURES

Modulating discharge.

Discharges condensate at steam temperature.

Unaffected by sudden or wide load and pressure changes.

Excellent air discharge (by thermostatic air vent).

OPTIONS: SLR – steam lock release.
Equalizing plug or vent connection.

USE: Saturated and superheated steam.

AVAILABLE

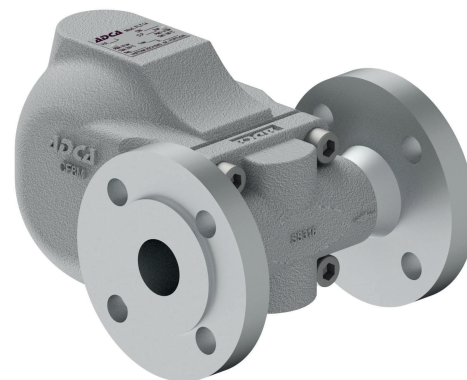
MODELS: FLT14I-4,5 , 10 and 14 – stainless steel.

SIZES: 1"; DN 25.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1 PN 16.
Flanged ASME B16.5 Class 150.
Socket weld (SW) ASME 16.11.
Butt weld (BW) ASME B16.25 on request.

INSTALLATION: Standard horizontal installation – from right to left (R-L). See IMI.
On request: Horizontal installation with the flow from left to right (L-R) or vertical with the flow from top to bottom (V).

MAX. ΔP: FLT14I-4,5 – 4,5 bar
FLT14I-10 – 10 bar
FLT14I-14 – 14 bar



CE MARKING – GROUP 2 (PED – European Directive)

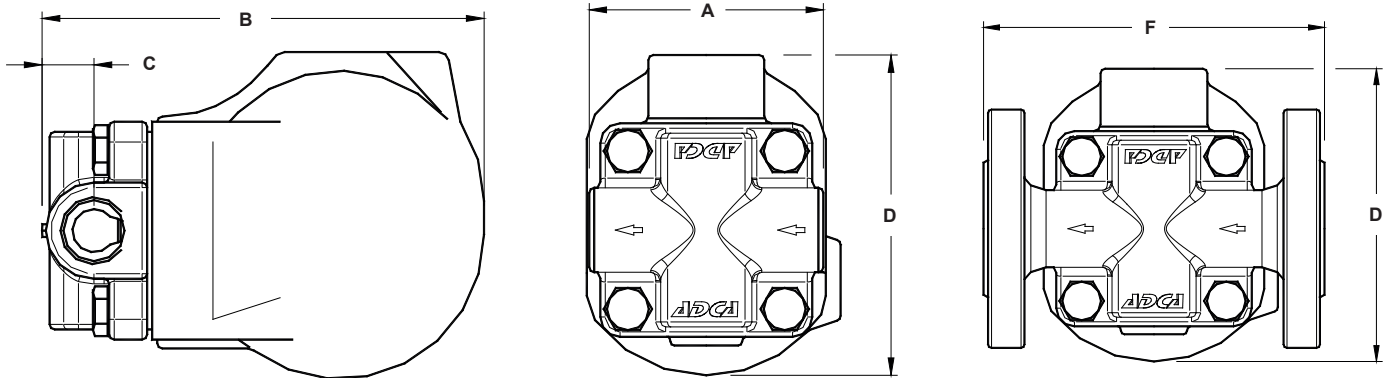
PN 16	Category
1" – DN 25	SEP

BODY LIMITING CONDITIONS		
FLANGED PN 16 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
16 bar	13,3 bar	100 °C
14,5 bar	12 bar	150 °C
13,4 bar	11,1 bar	200 °C
12,7 bar	10,2 bar	250 °C

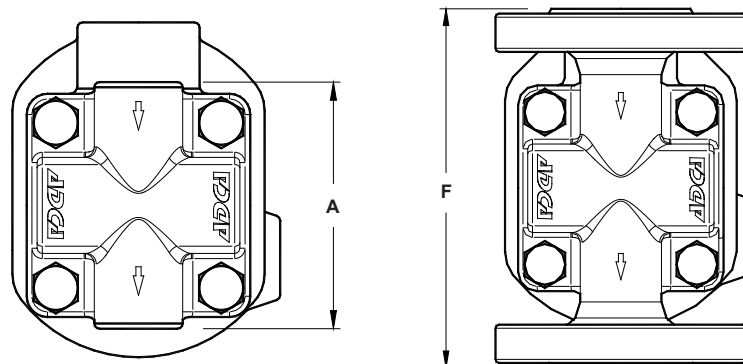
PMO – Maximum operating pressure: 14 bar;
TMO – Maximum operating temperature: 198 °C.
* Acc. to EN 1092-1:2018; ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 16 or below, depending on the type of connection adopted. Rating PN 16 for threaded, SW and BW versions.

FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	3	4,5	6	7	8	9	10	12	14
FLT14I-4,5	1" – DN 25	230	330	400	440	535	630	–	–	–	–	–	–	–
FLT14I-10	1" – DN 25	150	200	250	280	340	400	460	495	520	550	595	–	–
FLT14I-14	1" – DN 25	120	150	190	220	260	320	380	400	425	440	480	510	550



Horizontal Installation (R-L)

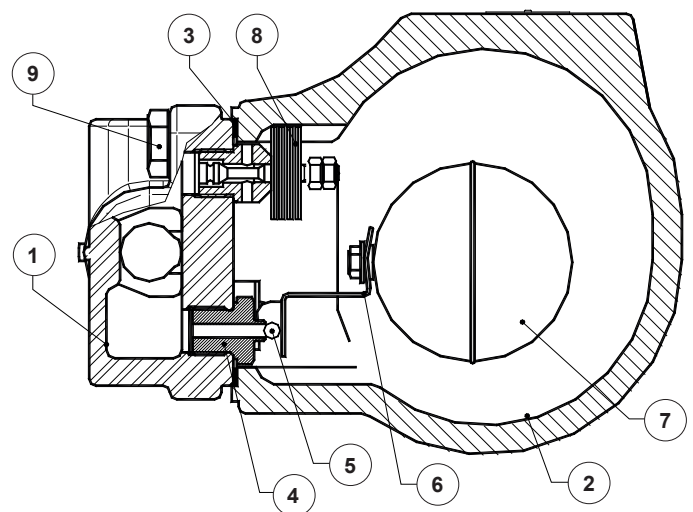


Vertical Installation (V)

DIMENSIONS (mm)									
SIZE	THREADED / SW				WEIGHT (kg)	PN 16		CLASS 150	
	A	B	C	D		F	WEIGHT (kg)	F	WEIGHT (kg)
1" - DN 25	95	178	23	128	5,2	160	7,7	160	7,3

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	A351 CF8M / 1.4408
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 410 / 1.4006
5	* Valve	AISI 440C / 1.4125
6	* Lever	AISI 304 / 1.4301
7	* Float	AISI 304 / 1.4301
8	* Air vent	Stainless st. (bimetallic)
9	Bolts	Stainless steel A2-70

* Available spare parts.



FLOAT AND THERMOSTATIC STEAM TRAPS

FLT14I

(1"HC – DN 25HC)

DESCRIPTION

The FLT14I float and thermostatic (integral air vent) steam traps series are designed for all types of low and high 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.

MAIN FEATURES

Modulating discharge.

Discharges condensate at steam temperature.

Unaffected by sudden or wide load and pressure changes.

Excellent air discharge (by thermostatic air vent).

OPTIONS: SLR – steam lock release.
Equalizing plug or vent connection.

USE: Saturated and superheated steam.

AVAILABLE

MODELS: FLT14I-4,5 , 10 and 14 – stainless steel.

SIZES: 1"HC; DN 25HC.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1 PN 16.
Flanged ASME B16.5 Class 150.
Socket weld (SW) ASME 16.11.
Butt weld (BW) ASME B16.25 on request.

INSTALLATION: Standard horizontal installation – from left to right (L-R). See IMI.
On request: Horizontal installation with the flow from right to left (R-L) or vertical with the flow from top to bottom (V).

MAX. ΔP: FLT14I-4,5 – 4,5 bar
FLT14I-10 – 10 bar
FLT14I-14 – 14 bar



BODY LIMITING CONDITIONS

FLANGED PN 16 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
16 bar	16 bar	100 °C
14,5 bar	14,8 bar	150 °C
13,4 bar	13,6 bar	200 °C
12,7 bar	12 bar	250 °C

PMO – Maximum operating pressure: 14 bar;

TMO – Maximum operating temperature: 198 °C.

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

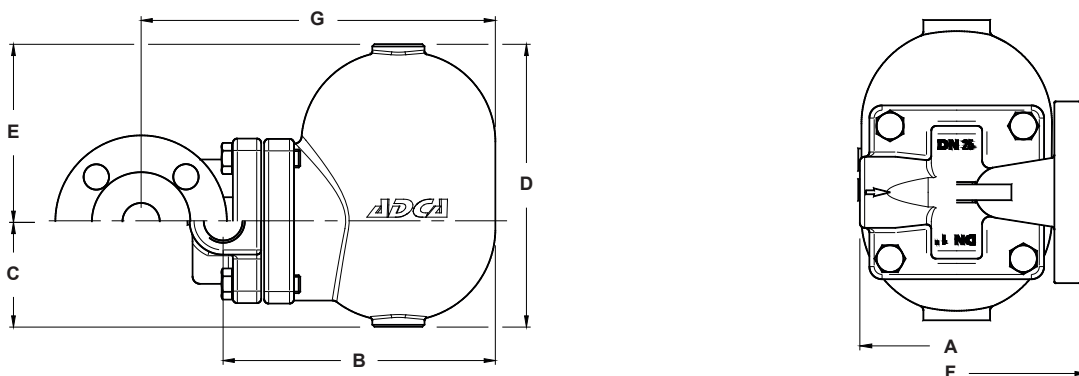
Body limiting conditions PN 16 or below, depending on the type of connection adopted. Rating PN 16 for threaded, SW and BW versions.

CE MARKING – GROUP 2 (PED – European Directive)

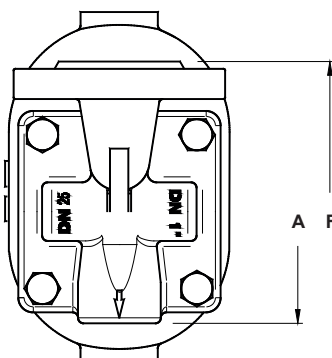
PN 16	Category
1"HC – DN 25HC	SEP

FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	3	4,5	6	7	8	9	10	12	14
FLT14I-4,5	1"HC – DN 25HC	900	1250	1450	1700	2010	2400	–	–	–	–	–	–	–
FLT14I-10	1"HC – DN 25HC	450	620	790	880	1100	1250	1500	1600	1700	1750	1800	–	–
FLT14I-14	1"HC – DN 25HC	340	435	530	600	610	850	990	1100	1190	1240	1300	1350	1380



Horizontal Installation (L-R)

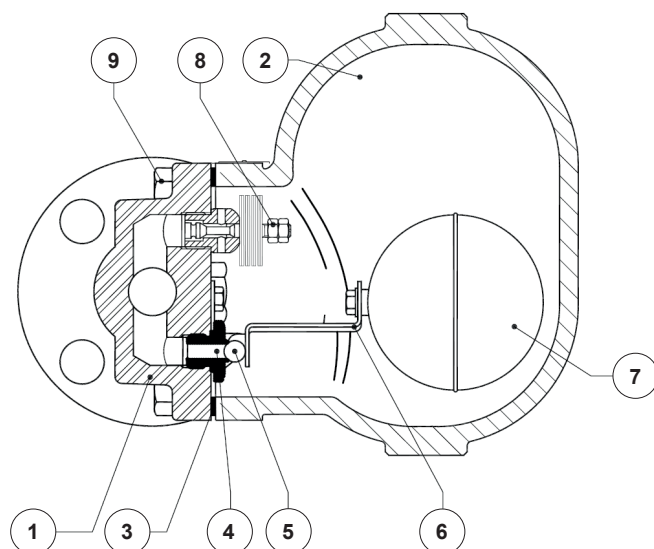


Vertical Installation (V)

DIMENSIONS (mm)												
THREADED / SW							PN 16			CLASS 150		
SIZE	A	B	C	D	E	WEIGHT (kg)	F	G	WEIGHT (kg)	F	G	WEIGHT (kg)
1"HC – DN 25HC	120	195	80	190	110	9	160	248	11,3	160	248	10,9

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	A351 CF8M / 1.4408
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 410 / 1.4006
5	* Valve	AISI 440C / 1.4125
6	* Lever	AISI 304 / 1.4301
7	* Float	AISI 304 / 1.4301
8	* Air vent	Stainless st. (bimetallic)
9	Bolts	Stainless steel A2-70

* Available spare parts.



FLOAT AND THERMOSTATIC STEAM TRAPS FLT47 (Stainless steel 1 1/2" – 2"; DN 40 – 50)

DESCRIPTION

The FLT47 is a range of 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.
 - SLR – Steam lock release.
 - HVV – Hand vent valve.
 - BDV – Blowdown valve.
 - AFZ – Anti-freeze device.
 - FLL – Float lifting lever.
 - VB21M – Vacuum breaker.

USE: Saturated and superheated steam.

AVAILABLE MODELS: FLT47-4,5 , 10 , 21 and 32 – stainless steel.

SIZES: 1 1/2" to 2"; DN 40 to DN 50.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1 PN 40.
Flanged ASME B16.5 Class 150 or 300.
Socket weld ASME B16.11.

INSTALLATION: Horizontal or vertical installation.

MAX. ΔP: FLT47-4,5 – 4,5 bar
FLT47-10 – 10 bar
FLT47-21 – 21 bar
FLT47-32 – 32 bar

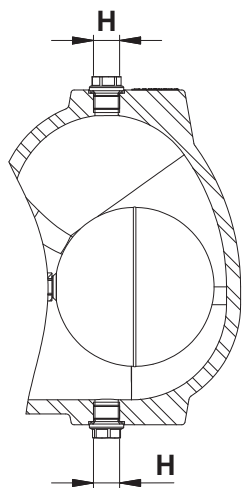
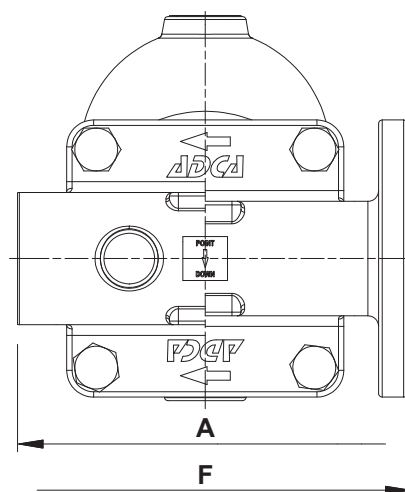
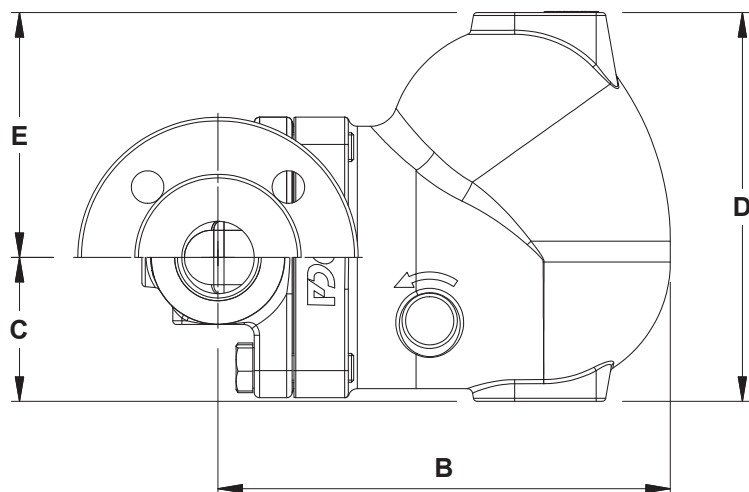


CE MARKING – GROUP 2 (PED – European Directive)		
CLASS 150	PN 40	Category
1 1/2" to 2" – DN 40 to 50	–	SEP
–	1 1/2" to 2" – DN 40 to 50	1 (CE marked)

BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
40 bar	16,3 bar	100 °C
33,7 bar	13,5 bar	200 °C
31,8 bar	12,1 bar	250 °C
29,7 bar	10,2 bar	300 °C

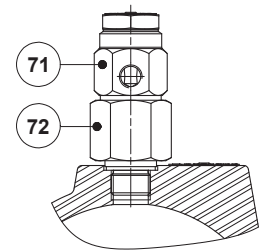
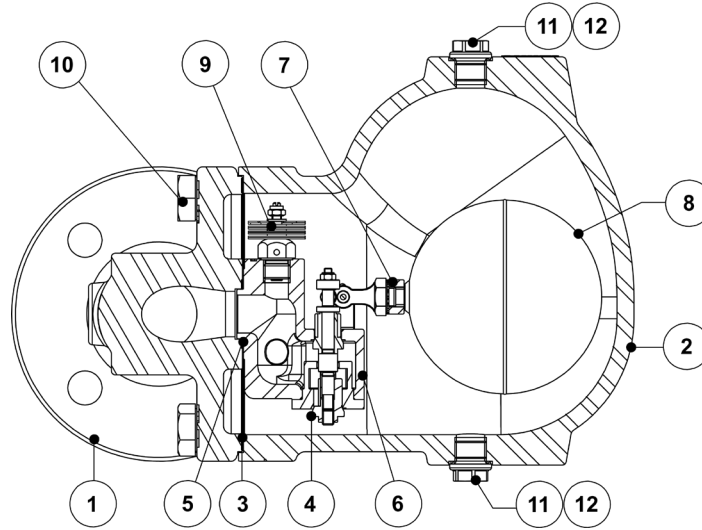
PMO – Maximum operating pressure: 32 bar.
TMO – Maximum operating temperature: 250 °C.
* Acc. to EN 1092-1:2018; ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded and SW versions.

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
FLT47-4,5	1 1/2" to 2" – DN 40 to 50	2400	3400	3900	4500	7300	–	–	–	–	–	–	–	–
FLT47-10	1 1/2" to 2" – DN 40 to 50	1500	2000	2600	3000	4000	5400	6200	–	–	–	–	–	–
FLT47-21	1 1/2" to 2" – DN 40 to 50	950	1300	1600	1800	2600	3250	3900	4210	4950	5000	5600	–	–
FLT47-32	1 1/2" to 2" – DN 40 to 50	950	1300	1600	1800	2600	3250	3900	4210	4950	5000	5600	6000	6500

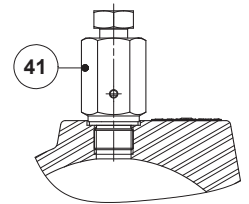


DIMENSIONS (mm)														
SIZE	THREADED / SW							PN 40		CLASS 150		CLASS 300		
	A	B	C	D	E	H *	WGT. (kg)	F	WGT. (kg)	F	WGT. (kg)	F	WGT. (kg)	
1 1/2" – DN 40	210	250	80	215	136	3/8"	19	230	21,9	230	20,4	230	21,7	
2" – DN 50	210	250	80	215	136	3/8"	18,4	230	23,8	230	21,7	230	23,4	

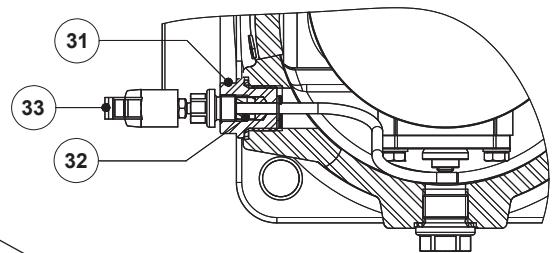
* As standard, in versions with EN flanges and female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.



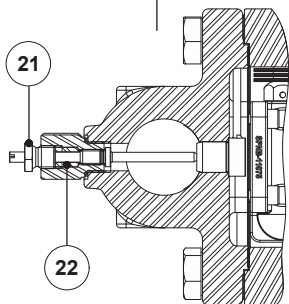
VB21M - Vacuum breaker



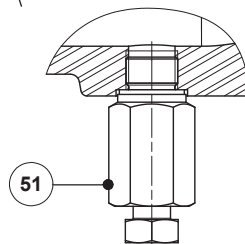
HVV - Hand vent valve



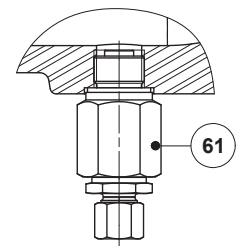
FLL - Float lifting lever



SLR - Steam lock release



BDV - Blowdown valve
(Manual)

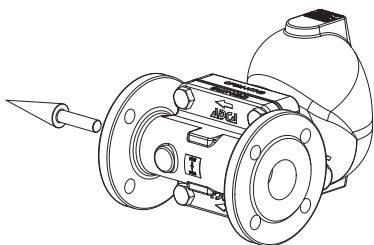


AFZ - Anti-freeze device
(Automatic)

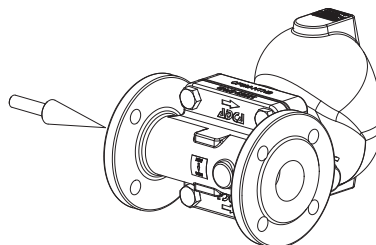
MATERIALS		
POS N°	DESIGNATION	MATERIAL
1	Body	A351 CF8M / 1.4408
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless st. (bimetallic)
10	Bolts	Stainless steel A2-70
11	Plug	AISI 316L / 1.4404
12	** Gasket	Copper; AISI 304 / 1.4301
21	Steam Lock Release	AISI 420 / 1.4021 AISI 316L / 1.4404
22	Packing	Graphite
31	Lever mechanism	AISI 303 / 1.4305 ; AISI 304 / 1.4301; AISI 316L / 1.4404
32	Packing	Graphite
33	Lever	Plastic
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.

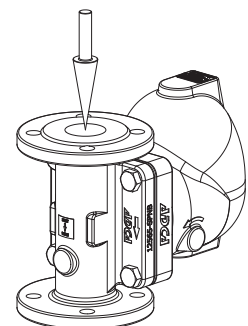
FLOW DIRECTION



IR - Horizontal from right to left



IL - Horizontal from left to right



IT - Vertical from top to bottom

ORDERING CODES FLT47										
Model	A47	2	V	XX	X	X	IR	A	40	
FLT47 – A351 CF8M / 1.4408 stainless steel	A47									
Differential pressure										
4,5 bar		2								
10 bar		3								
21 bar		4								
32 bar		5								
Automatic air vent										
Bimetallic air vent (standard)			V							
None			X							
Cover connections										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10						
Options										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
SLR - Steam lock release										
None					X					
With steam lock release assembled					S					
FLL - Float lifting lever										
None						X				
Lifting lever on the right side (when facing the steam trap body)						R				
Lifting lever on the left side (when facing the steam trap body)						L				
Flow direction										
Horizontal from right to left (standard)							IR			
Horizontal from left to right							IL			
Vertical from top to bottom							IT			
Pipe connections										
Female threaded ISO 7 Rp								A		
Female threaded NPT								C		
Socket weld ASME B16.11								H		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
Size										
1 1/2" or DN 40									40	
2" or DN 50									50	
Special valves / Extras										
Full description or additional codes have to be added in case of a non-standard combination										E

FLOAT AND THERMOSTATIC STEAM TRAPS

FLT49

(Stainless steel 2"; DN 50)

DESCRIPTION

The FLT49 is a range of 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.
- SLR – Steam lock release.
- HVV – Hand vent valve.
- BDV – Blowdown valve.
- AFZ – Anti-freeze device.
- FLL – Float lifting lever.
- VB21M – Vacuum breaker.

USE: Saturated and superheated steam.

AVAILABLE MODELS: FLT49-4,5 , 10 , 21 and 32 – stainless steel.

SIZES: 2"; DN 50.

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

INSTALLATION: Horizontal or vertical installation.

MAX. ΔP:

- FLT49-4,5 – 4,5 bar
- FLT49-10 – 10 bar
- FLT49-21 – 21 bar
- FLT49-32 – 32 bar



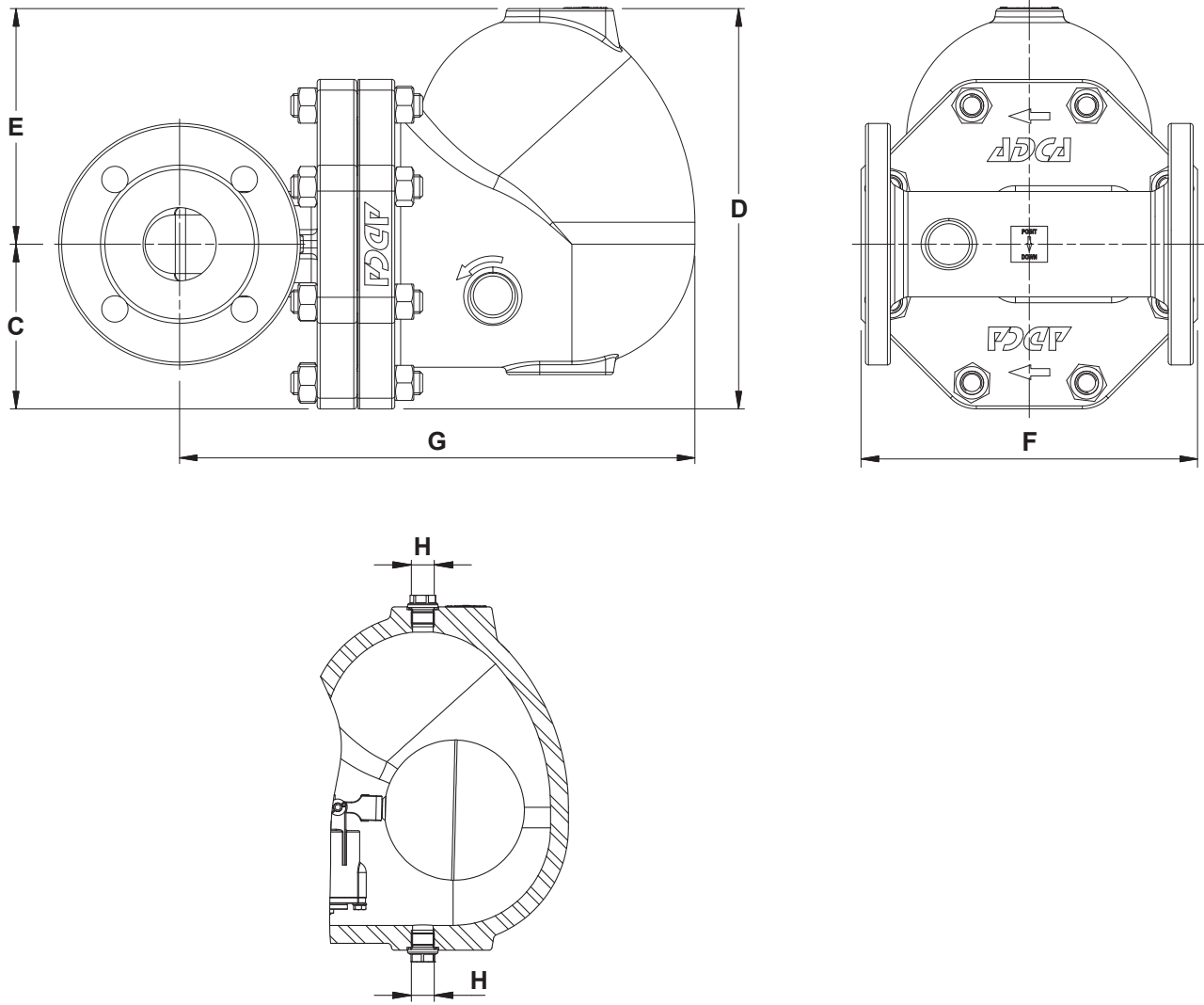
CE MARKING – GROUP 2 (PED – European Directive)

PN 40	Category
2" – DN 50	1 (CE marked)

BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
40 bar	16,3 bar	100 °C
33,7 bar	13,5 bar	200 °C
31,8 bar	12,1 bar	250 °C
29,7 bar	10,2 bar	300 °C

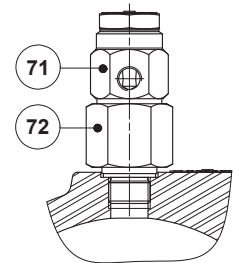
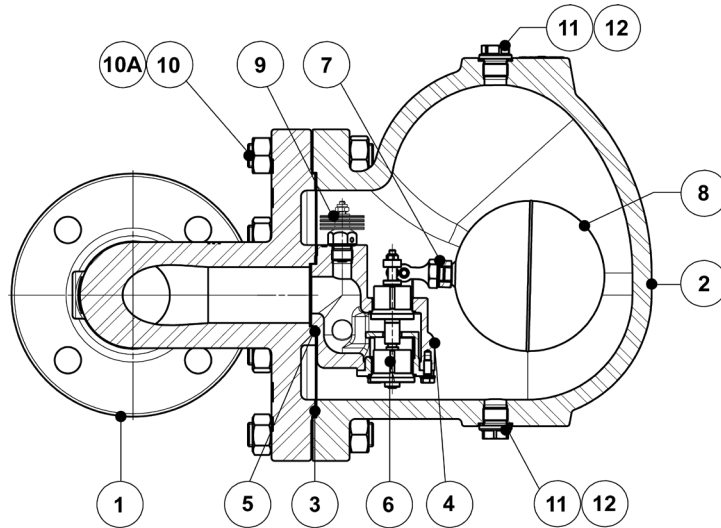
PMO – Maximum operating pressure: 32 bar.
 TMO – Maximum operating temperature: 250 °C.
 * Acc. to EN 1092-1:2018; ** Acc. to EN 1759-1:2004.
 Body limiting conditions PN 40 or below, depending on the type of connection adopted.

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
FLT49-4,5	2" – DN 50	7550	11000	14000	15500	22500	–	–	–	–	–	–	–	–
FLT49-10	2" – DN 50	3900	5000	6100	7100	10000	13750	16000	–	–	–	–	–	–
FLT49-21	2" – DN 50	1900	2700	3100	3600	5000	6900	8100	9000	9800	10050	11150	–	–
FLT49-32	2" – DN 50	1900	2700	3100	3600	5000	6900	8100	9000	9800	10050	11150	12000	12550

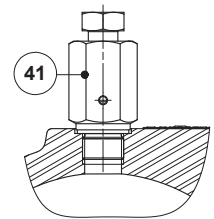


DIMENSIONS (mm)									
PN 40								CLASS 150	CLASS 300
SIZE	C	D	E	H*	F	G	WEIGHT (kg)	WEIGHT (kg)	WEIGHT (kg)
2" – DN 50	80	215	136	3/8"	230	352	40,8	39,9	40,4

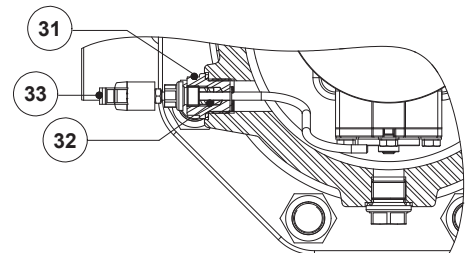
* As standard, in versions with EN flanges, these connections are female threaded ISO 228. In versions with ASME flanges, these connections are female threaded NPT.



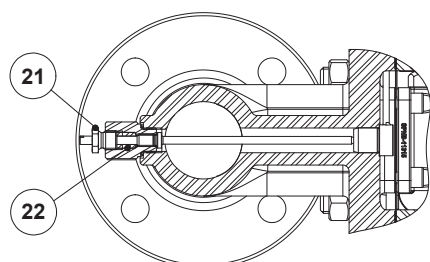
VB21M - Vacuum breaker



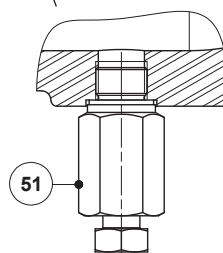
HVV - Hand vent valve



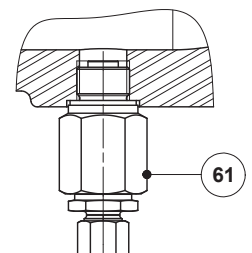
FLL - Float lifting lever



SLR - Steam lock release



BDV - Blowdown valve
(Manual)

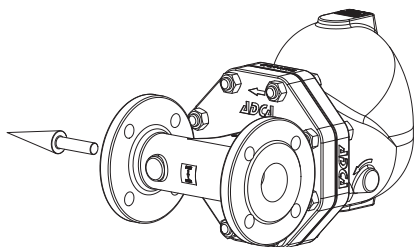


AFZ - Anti-freeze device
(Automatic)

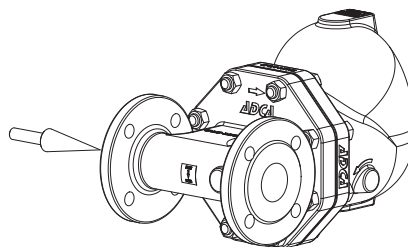
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	A351 CF8M / 1.4408
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless st. (bimetallic)
10	Studs	Stainless steel A2-70
10A	Nuts	Stainless steel A2-70
11	Plug	AISI 316L / 1.4404
12	** Gasket	Copper; AISI 304 / 1.4301
21	Steam Lock Release	AISI 420 / 1.4021 AISI 316L / 1.4404
22	Packing	Graphite
31	Lever mechanism	AISI 303 / 1.4305; AISI 304 / 1.4301; AISI 316L / 1.4404
32	Packing	Graphite
33	Lever	Plastic
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.

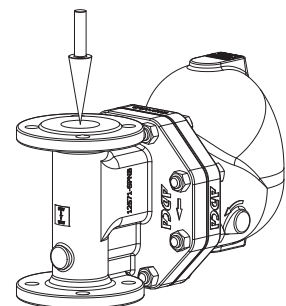
FLOW DIRECTION



IR - Horizontal from right to left



IL - Horizontal from left to right



IT - Vertical from top to bottom

ORDERING CODES FLT49										
Model	A49	2	V	XX	X	X	IR	N	50	
FLT49 – A351 CF8M / 1.4408 stainless steel	A49									
Differential pressure										
4,5 bar		2								
10 bar		3								
21 bar		4								
32 bar		5								
Automatic air vent										
Bimetallic air vent (standard)			V							
None			X							
Cover connections										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10						
Options										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
SLR - Steam lock release										
None					X					
With steam lock release assembled					S					
FLL - Float lifting lever										
None						X				
Lifting lever on the right side (when facing the steam trap body)						R				
Lifting lever on the left side (when facing the steam trap body)						L				
Flow direction										
Horizontal from right to left (standard)							IR			
Horizontal from left to right							IL			
Vertical from top to bottom							IT			
Pipe connections										
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
Size										
2" or DN 50									50	
Special valves / Extras										
Full description or additional codes have to be added in case of a non-standard combination										E

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

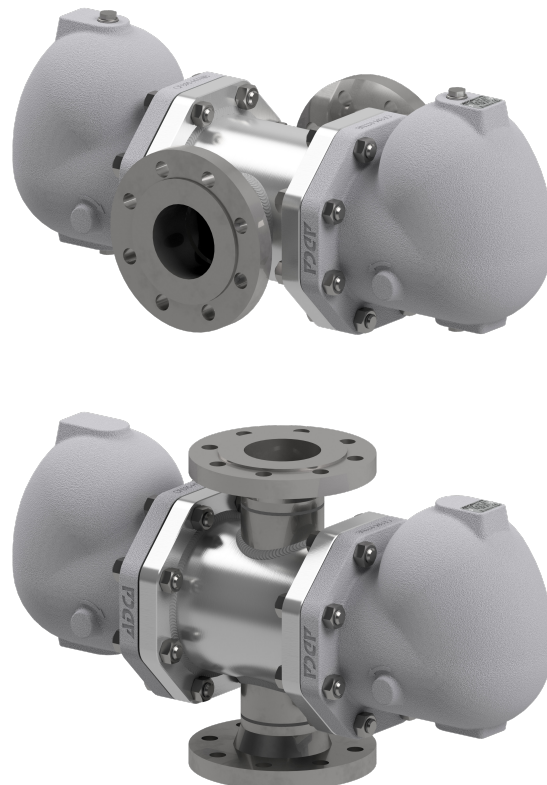
AVAILABLE MODELS: FLT49TW-4,5 , 10 , 21 and 32 – stainless steel.

SIZES: 3" to 4"; DN 80 to 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.

MAX. ΔP: 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" to 4" DN 80 to 100	–	1 (CE marked)
–	3" to 4" DN 80 to 100	2 (CE marked)

BODY LIMITING CONDITIONS				
FLANGED PN 16 *	FLANGED PN 40 *	FLANGED CLASS 150 **	FLANGED CLASS 300 **	RELATED TEMP.
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

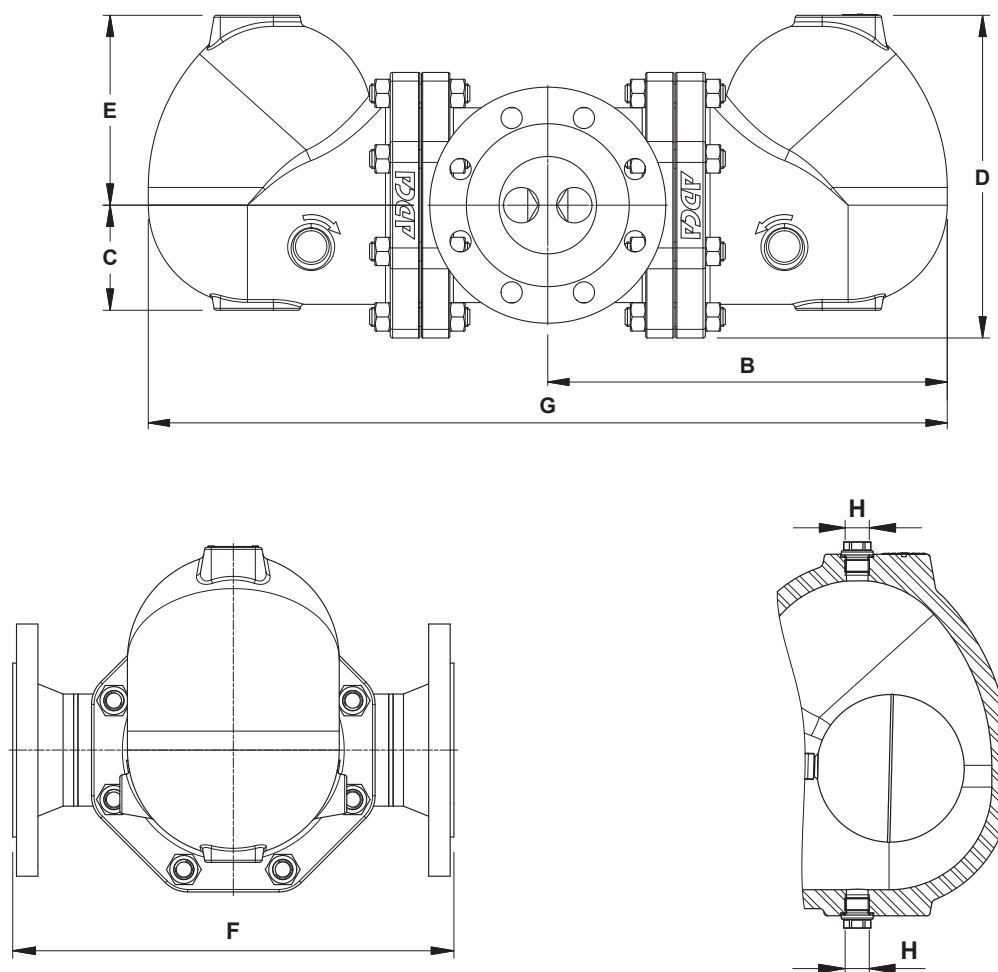
PMO – Maximum operating pressure: 32 bar;

TMO – Maximum operating temperature: 250 °C.

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

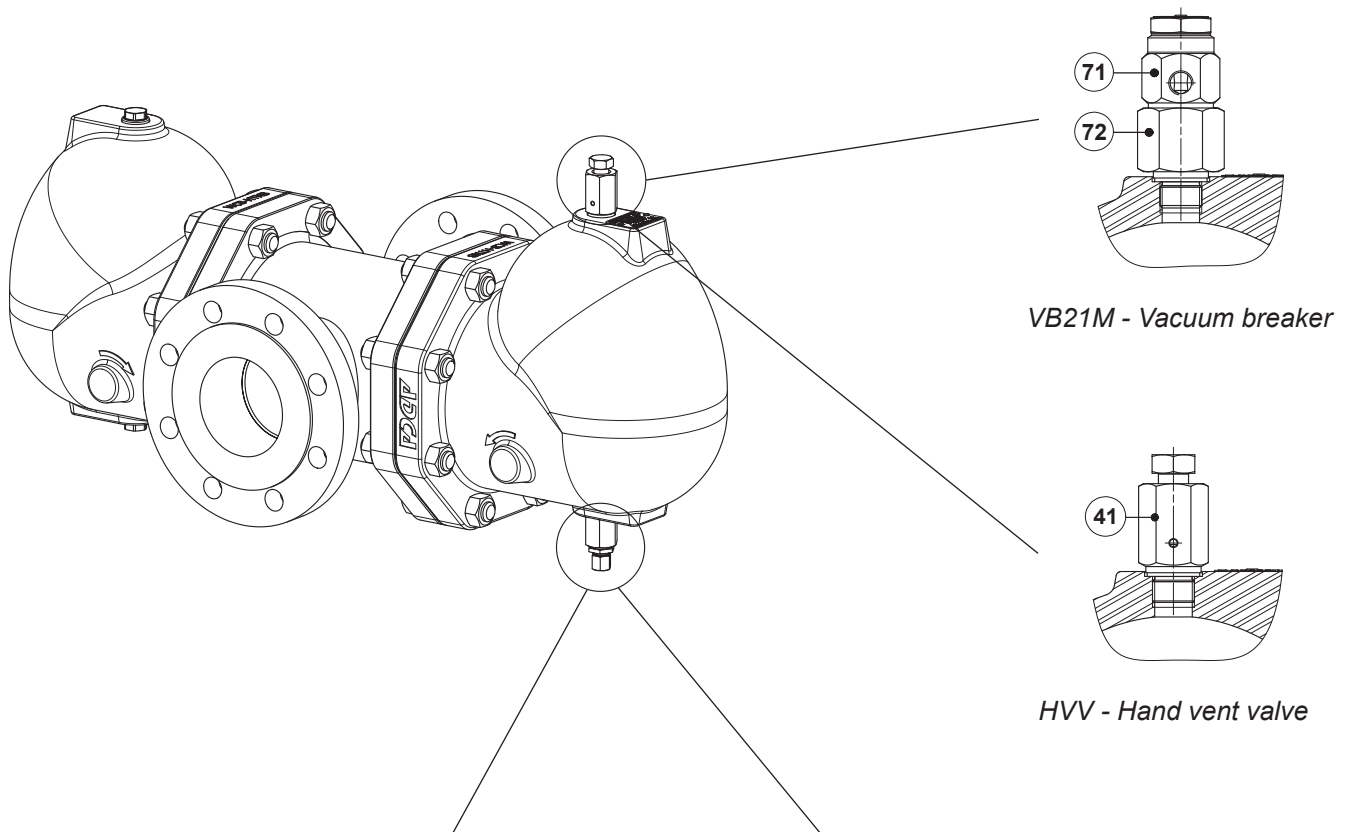
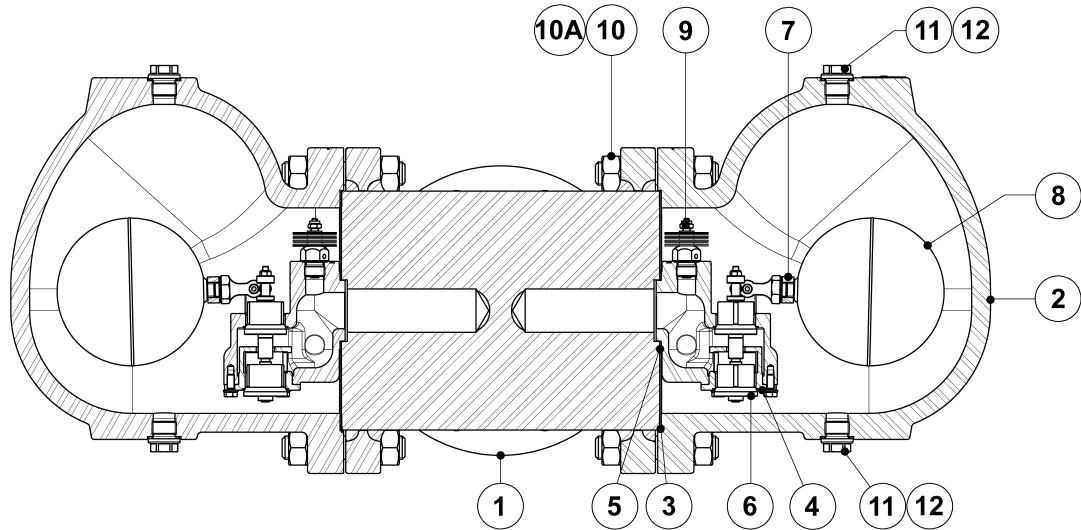
Body limiting conditions PN 40 or below, depending on the type of connection adopted.

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" to 4" – DN 80 to 100	15100	22000	28000	31000	45000	–	–	–	–	–	–	–	–
FLT49TW-10	3" to 4" – DN 80 to 100	7800	10000	12200	14200	20000	27500	32000	–	–	–	–	–	–
FLT49TW-21	3" to 4" – DN 80 to 100	3800	5400	6200	7200	10000	13800	16200	18000	19600	20100	22300	–	–
FLT49TW-32	3" to 4" – DN 80 to 100	3800	5400	6200	7200	10000	13800	16200	18000	19600	20100	22300	24000	25100



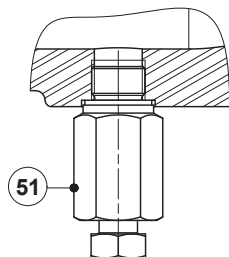
DIMENSIONS (mm)											
SIZE	PN 16							PN 40	CLASS 150	CLASS 300	
	B	C	D	E	F	G	H *	WEIGHT (kg)	WEIGHT (kg)	WEIGHT (kg)	WEIGHT (kg)
3" – DN 80	339	113	273	161	350	677	3/8"	90,8	92,4	92	96
4" – DN 100	339	113	273	161	350	677	3/8"	90,3	93,8	94	102,5

* 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.

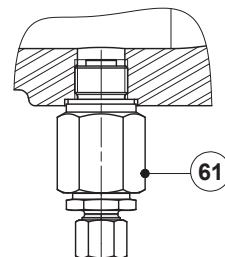


VB21M - Vacuum breaker

HVV - Hand vent valve



BDV - Blowdown valve
 (Manual)

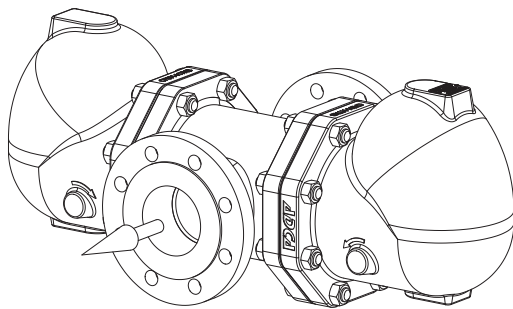


AFZ - Anti-freeze device
 (Automatic)

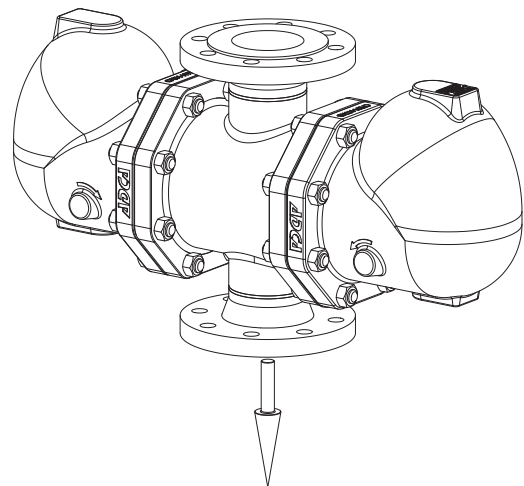
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	AISI 304 / 1.4301; AISI 316L / 1.4404
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless st. (bimetallic)
10	Studs	Stainless steel A2-70
10A	Nuts	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							
Differential pressure								
4,5 bar		2						
10 bar		3						
21 bar		4						
32 bar		5						
Automatic air vent								
Bimetallic air vent (standard)			V					
None			X					
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 valves / Extras								
Full description or additional codes have to be added in case of a non-standard combination								E