

FLOAT AND THERMOSTATIC STEAM TRAPS

FLT29

(SG iron ; 2" – DN 50)

DESCRIPTION

The ADCA FLT29 is a series 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: FLT29-4,5, FLT29-10 and FLT29-14 – SG iron.

SIZES: 2"; DN 50.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-2 PN 16.
Flanged ASME B16.42 Class 150.

INSTALLATION: Horizontal or vertical installation.

ΔPMX: FLT29-4,5 – 4,5 bar
FLT29-10 – 10 bar
FLT29-14 – 14 bar



CE MARKING – GROUP 2 (PED – European Directive)	
PN 16	Category
2" – DN 50	1 (CE marked)

BODY LIMITING CONDITIONS		
FLANGED PN 16 *	FLANGED CLASS 150 **	RELATED TEMPERATURE
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
16 bar	16 bar	100 °C
15,5 bar	14,8 bar	150 °C
14,7 bar	13,9 bar	200 °C
13,9 bar	12,1 bar	250 °C

PMO – Maximum operating pressure: 14 bar.

TMO – Maximum operating temperature: 250 °C.

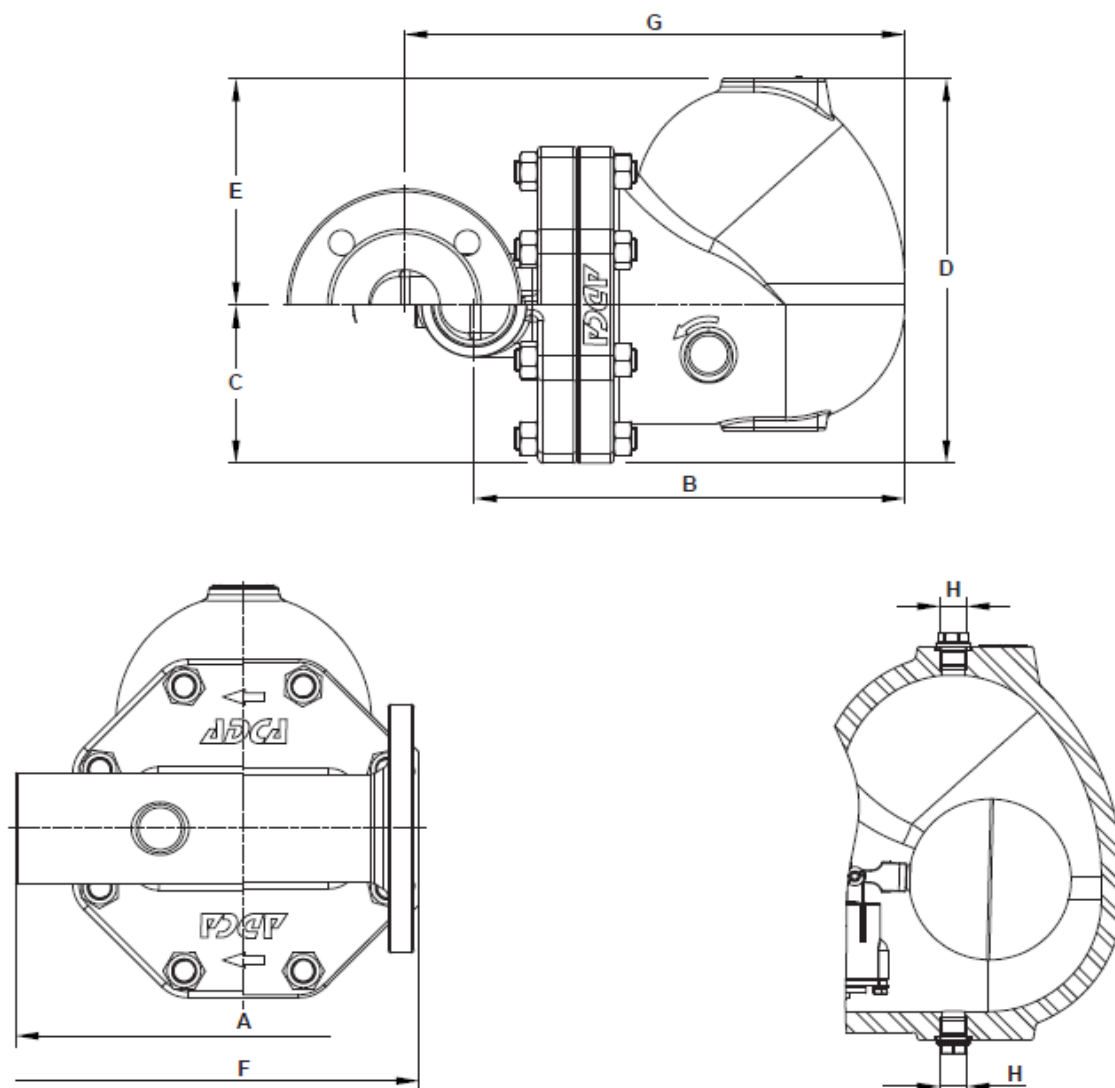
* According to EN 1092-2:2018.

** According to ASME B16.42.

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

FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)								
		0,5	1	1,5	2	4,5	7	10	12	14
FLT29-4,5	2" – DN 50	7550	11000	14000	15500	22500	–	–	–	–
FLT29-10	2" – DN 50	3900	5000	6100	7100	10000	13750	16000	–	–
FLT29-14	2" – DN 50	1900	2700	3100	3600	5000	6900	8100	9000	9800

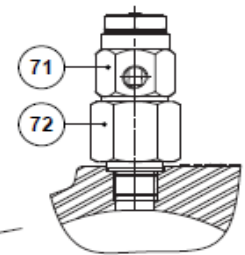
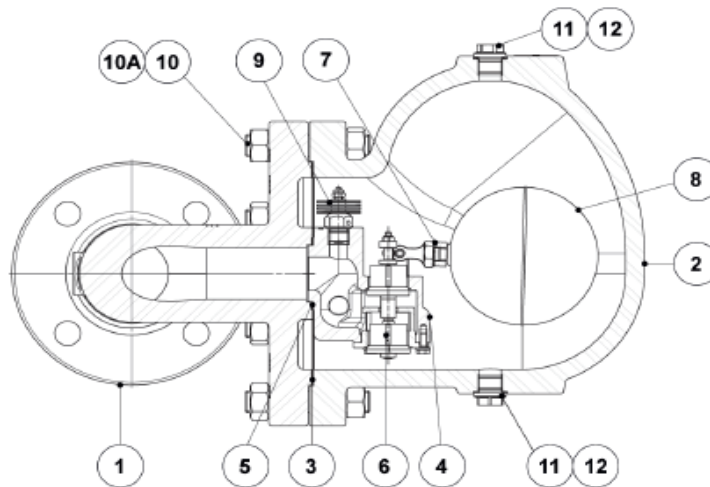


DIMENSIONS (mm)

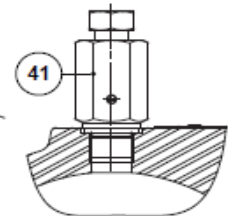
SIZE	THREADED							PN 16			CLASS 150		
	A	B	C	D	E	H *	WEIGHT (kg)	F	G	WEIGHT (kg)	F	G	WEIGHT (kg)
2" – DN 50	300	303	113	273	161	3/8"	35,5	230	352	40,8	230	352	39,9

* 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 or female NPT threads, these connections are female threaded NPT.

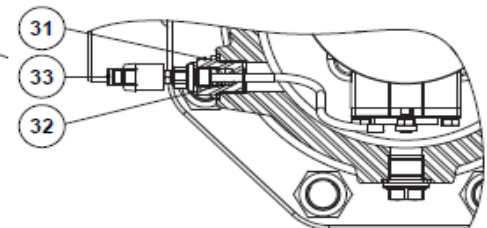
MATERIALS



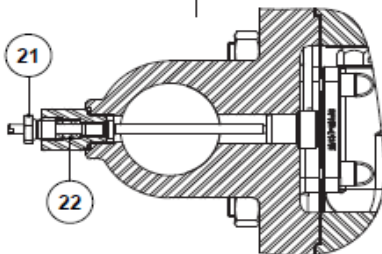
*Optional vacuum breaker
(VB21M)*



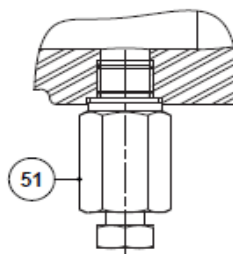
*Optional hand vent valve
(HVV)*



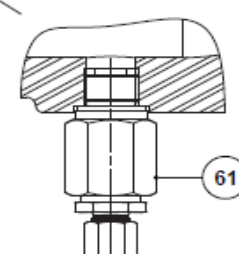
Optional float lifting lever (FLL)



*Optional steam lock release
(SLR)*



*Optional blowdown valve (BDV);
Manual*



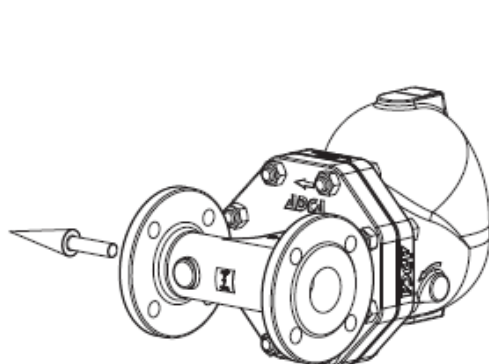
*Optional anti-freeze device (AFZ);
Automatic*

MATERIALS

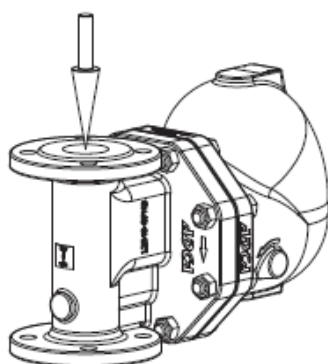
POS. N°	DESIGNATION	MATERIAL
1	Body (Flanged)	GJS-400-15 / 0.7040
	Body (Threaded)	A216 WCB / 1.0619
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless st. (bimetallic)
10	Stud	Zinc plated steel
10A	Nut	Zinc plated steel
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.

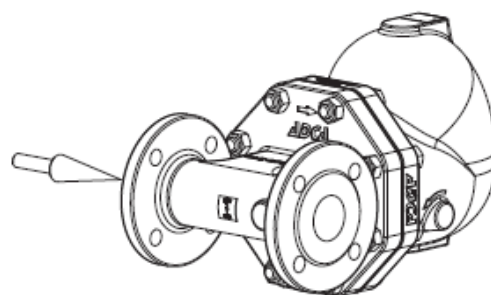
FLOW DIRECTION



IR - Horizontal from right to left



IT - Vertical from top to bottom



IL - Horizontal from left to right

ORDERING CODES FLT29

Model	A29	2	V	XX	X	X	IR	A	50	
FLT29 – SG iron	A29									
Maximum allowable differential pressure (ΔPMX)										
4,5 bar		2								
10 bar		3								
14 bar		4								
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		
Flanged EN 1092-2 PN 16								L		
Flanged ASME B16.42 Class 150								U		
Size										
2" or DN 50									50	
Special construction / Additional options										
A full description must be provided and validated in case of a non-standard construction										E