FLOAT AND THERMOSTATIC STEAM TRAPS
FLT29TW
(SG iron ; 3" and 4" – DN 80 and DN 100)

DESCRIPTION

The ADCA FLT29TW is a series 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: FLT29TW-4,5, FLT29TW-10 and FLT29TW-14 – SG iron.

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

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

INSTALLATION: Horizontal or vertical installation.

ΔPMX: FLT29TW-4,5 – 4,5 bar
FLT29TW-10 – 10 bar
FLT29TW-14 – 14 bar

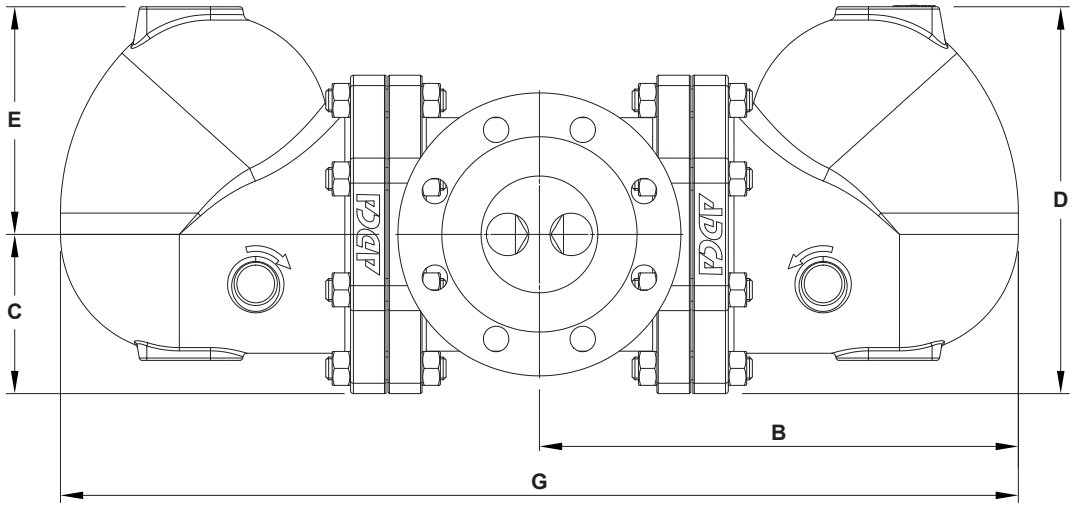
CE MARKING – GROUP 2 (PED – EUROPEAN DIRECTIVE)	
PN 16	**CATEGORY**
3" and 4" – DN 80 and 100	1 (CE marked)

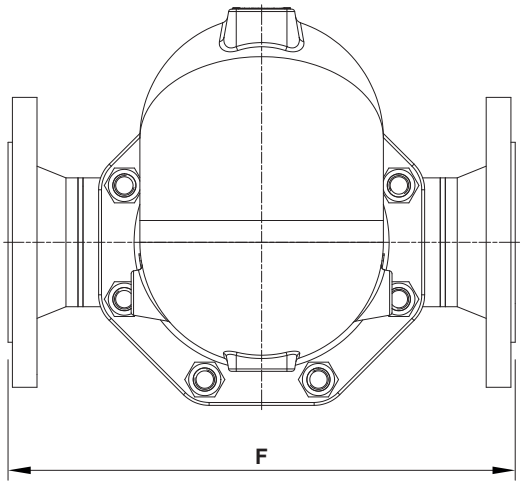
BODY LIMITING CONDITIONS		
FLANGED PN 16 *	**FLANGED CLASS 150 ****	**RELATED TEMPERATURE**
ALLOWABLE PRESSURE	**ALLOWABLE PRESSURE**	
16 bar	16 bar	100 ºC
15,5 bar	14,8 bar	150 ºC
14,7 bar	13,9 bar	200 ºC
13,9 bar	12,1 bar	250 ºC

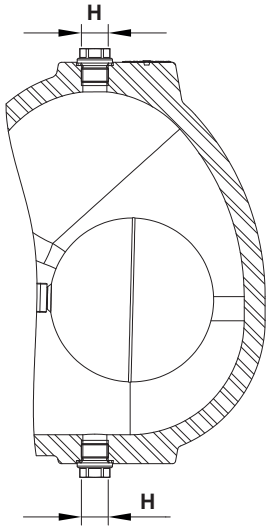
PMO – Maximum operating pressure: 14 bar; TMO – Maximum operating temperature: 198 ºC.
* According to EN 1092-2:2018; ** According to ASME B16.42.
Body limiting conditions PN 16 or below, depending on the type of connection adopted.

We reserve the right to change the design and material of this product without notice.

FLOW RATE CAPACITY (kg/h)										
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)								
		0,5	1	1,5	2	4,5	7	10	12	14
FLT29TW-4,5	3" and 4" – DN 80 and 100	15100	22000	28000	31000	45000	–	–	–	–
FLT29TW-10	3" and 4" – DN 80 and 100	7800	10000	12200	14200	20000	27500	32000	–	–
FLT29TW-14	3" and 4" – DN 80 and 100	3800	5400	6200	7200	10000	13800	16200	18000	19600





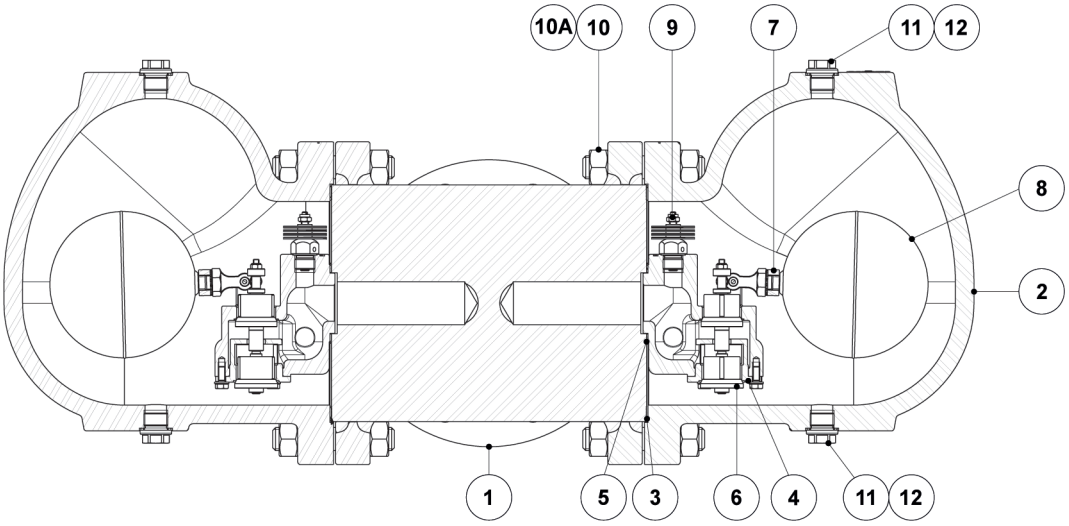


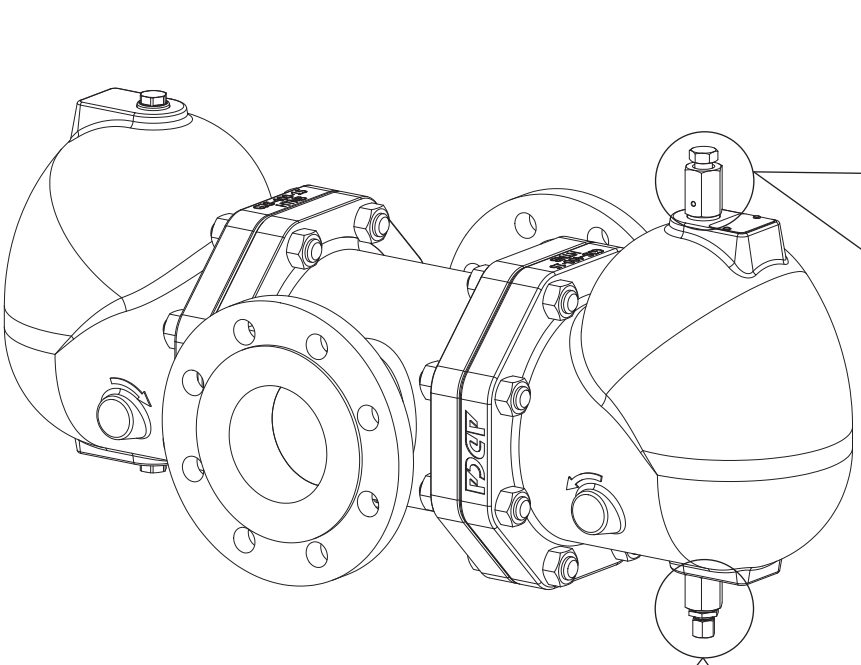
DIMENSIONS (mm)									
SIZE	PN 16								CLASS 150
	B	C	D	E	F	G	H *	WEIGHT (kg)	WEIGHT (kg)
3" – DN 80	339	113	273	161	350	677	3/8"	86	86,6
4" – DN 100	339	113	273	161	350	677	3/8"	85,1	87,9

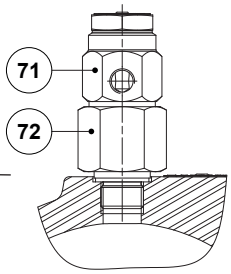
* As standard, in versions with EN flanges, these connections are female threaded ISO 228. In versions with ASME flanges, these connections are female threaded NPT.

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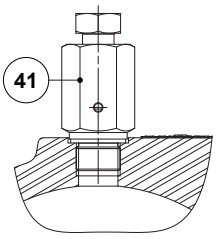
MATERIALS



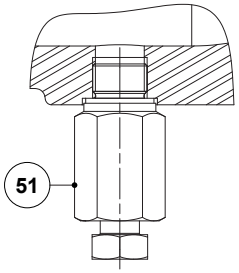




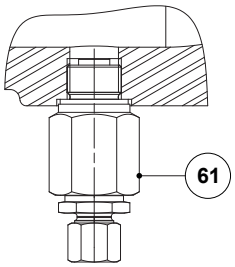
Optional vacuum breaker (VB21M)



Optional hand vent valve (HVV)



Optional blowdown valve (BDV); Manual



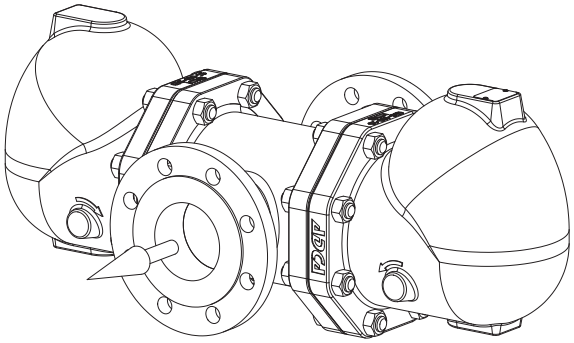
Optional anti-freeze device (AFZ); Automatic

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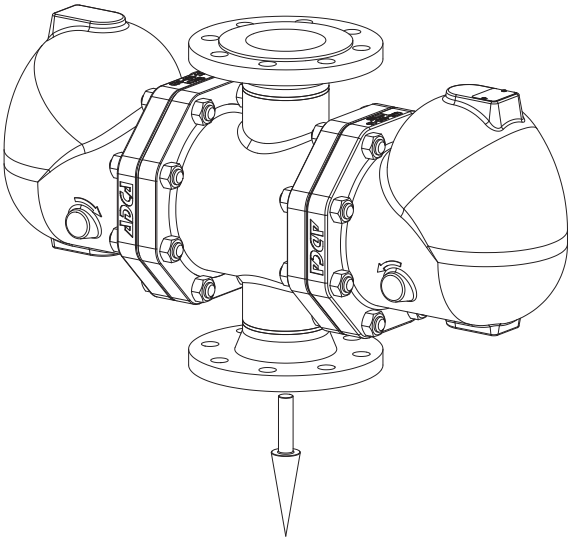
MATERIALS		
POS. No.	**DESIGNATION**	**MATERIAL**
1	Body	P250GH / 1.0460; P235GH / 1.0345; S235JR / 1.0038
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Stainless steel / Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel (bimetallic)
10	Stud	Zinc plated steel
10A	Nut	Zinc plated steel
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

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ORDERING CODES FLT29TW								
MODEL	**A29T**	**2**	**V**	**XX**	**IH**	**L**	**80**	**E**
FLT29TW – GJS-400-15 / 0.7040 SG iron	**A29T**							
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								
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 ASME B16.5 Class 150						**U**		
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**

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