FLOAT AND THERMOSTATIC STEAM TRAPS
FLT25
(SG iron ; 1" – DN 25)

DESCRIPTION

The ADCA FLT25 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.

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: FLT25-4,5, FLT25-10 and FLT25-14 – SG iron.

SIZES: 1"; DN 25.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.
Flanged EN 1092-1/-2 PN 16.
Flanged ASME B16.42 Class 150.

INSTALLATION: Inline horizontal or vertical installation.
Angled horizontal or vertical installation.
See IMI – Installation and maintenance instructions.

ΔPMX: FLT25-4,5 – 4,5 bar
FLT25-10 – 10 bar
FLT25-14 – 14 bar

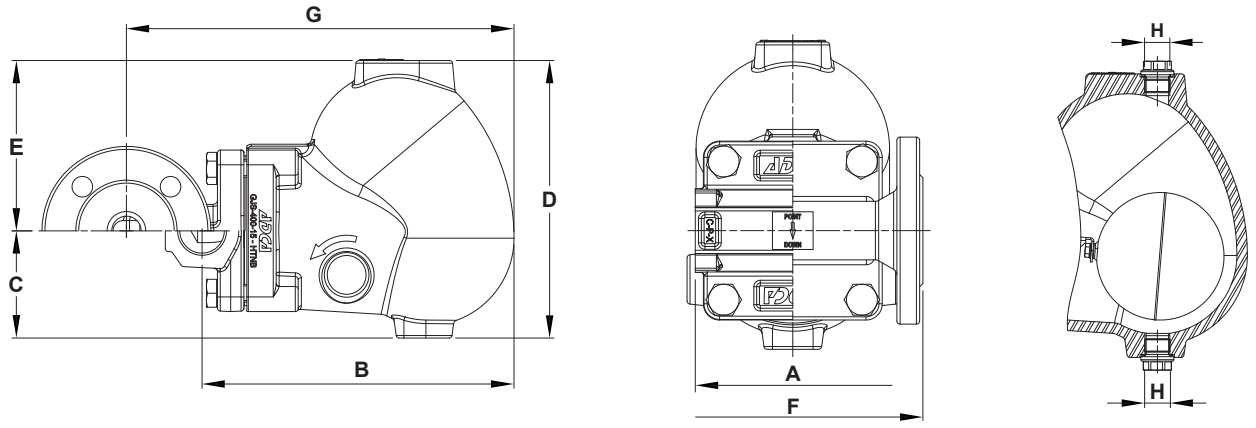
CE MARKING – GROUP 2 (PED – European Directive)	
PN 16	**Category**
1" – DN 25	SEP

BODY LIMITING CONDITIONS		
FLANGED PN 16 *	**FLANGED CLASS 150 ****	**RELATED TEMPERATURE**
ALLOW. PRESS.	**ALLOW. PRESS.**	
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: 250 ºC.
* Acc. to EN 1092-2:2018; ** Acc. to ASME B16.42.
Body limiting conditions PN 16 or below, depending on the type of connection adopted. Rating PN 16 for threaded versions.

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

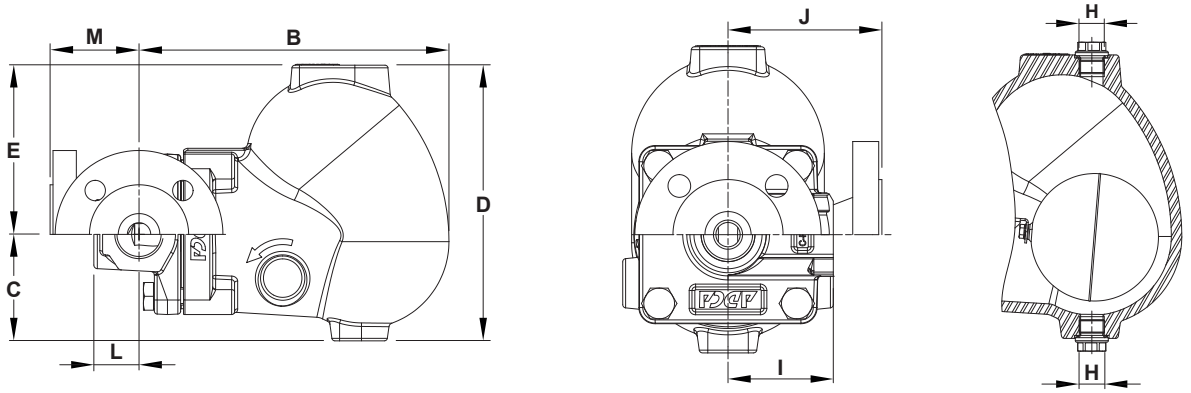
FLOW RATE CAPACITY (kg/h)										
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)								
		0,5	1	1,5	2	4,5	7	10	12	14
FLT25-4,5	1" – DN 25	900	1250	1490	1630	2490	–	–	–	–
FLT25-10	1" – DN 25	445	610	705	850	1285	1670	1820	–	–
FLT25-14	1" – DN 25	335	445	515	600	885	1150	1350	1500	1610



Inline design

DIMENSIONS – INLINE DESIGN (mm)													
SIZE	THREADED							PN 16			CLASS 150		
	A	B	C	D	E	H *	WEIGHT (kg)	F	G	WEIGHT (kg)	F	G	WEIGHT (kg)
1" – DN 25	120	212	73	189	116	3/8"	8,9	160	264	12	160	264	11,9

* As standard, in versions with EN flanges or 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.



Angled design

DIMENSIONS – ANGLED DESIGN (mm)														
SIZE	THREADED								PN 16			CLASS 150		
	B	C	D	E	H *	I	L	WEIGHT (kg)	J	M	WEIGHT (kg)	J	M	WEIGHT (kg)
1" – DN 25	212	73	189	116	3/8"	65	31	8,4	95	61	11	100	66	10,5

* As standard, in versions with EN flanges or 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.

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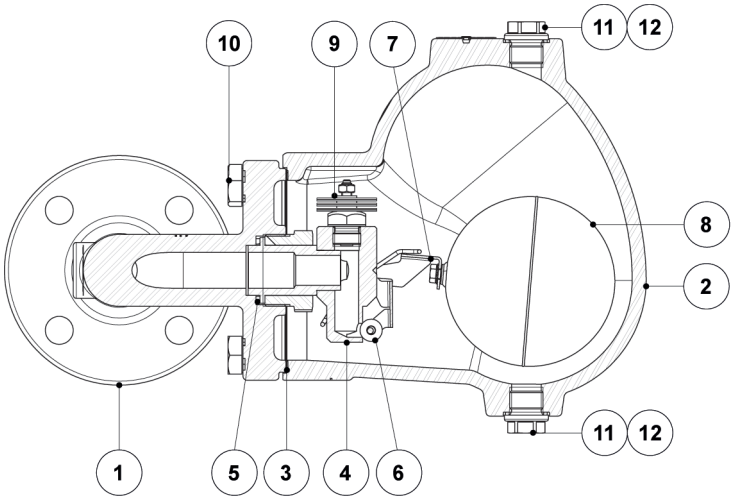
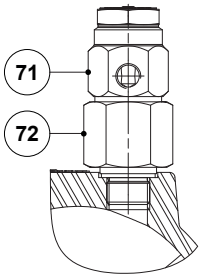
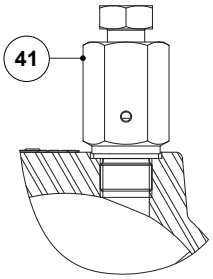
MATERIALS

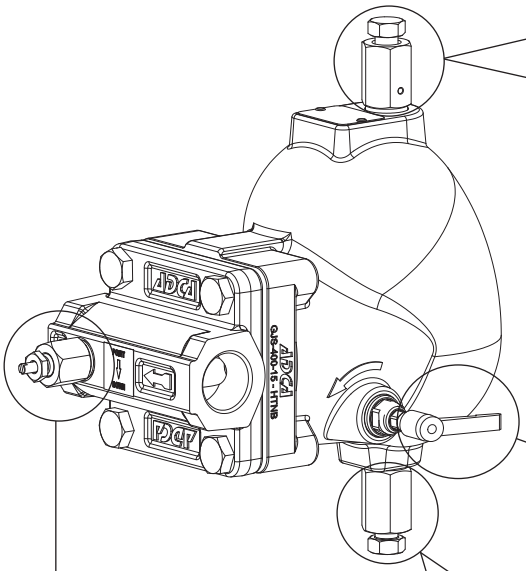


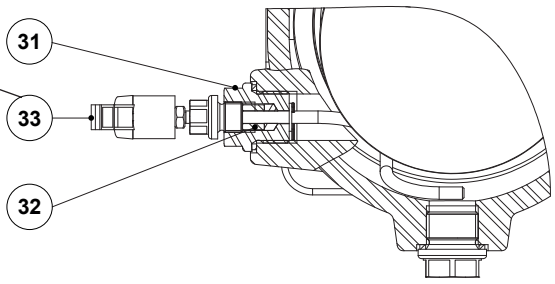


Optional vacuum breaker (VB21M)

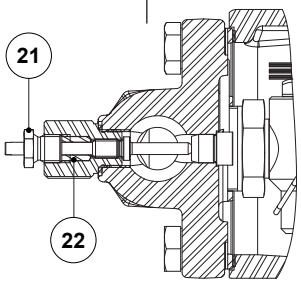


Optional hand vent valve (HVV)

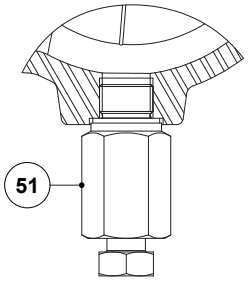




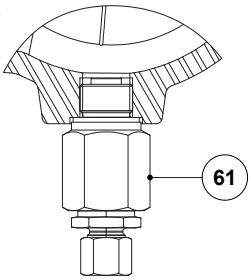
Optional float lifting lever (FLL)



Optional steam lock release (SLR)



Optional blowdown valve (BDV); Manual



Optional anti-freeze device (AFZ); Automatic

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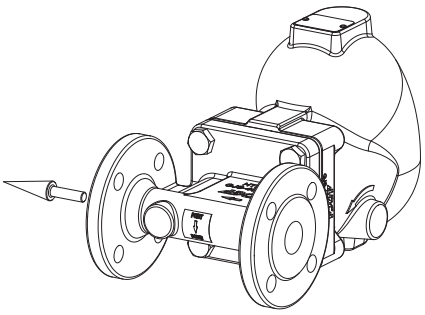
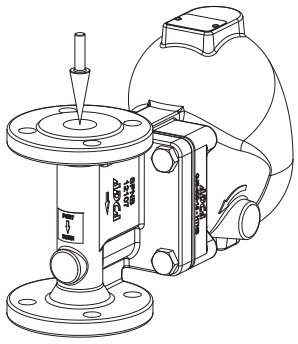
MATERIALS		
POS. Nº	**DESIGNATION**	**MATERIAL**
1	Body (inline flanged)	GJS-400-15 / 0.7040
	Body (inline threaded)	P250GH / 1.0460
	Body (angled)	P250GH / 1.0460
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401
7	* Lever	AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel; Bimetallic
10	Bolt	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	Connector	AISI 316L / 1.4404

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

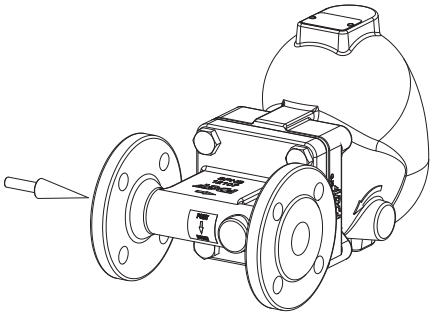
FLOW DIRECTION



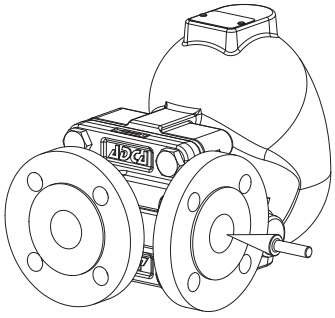
IR - Horizontal from right to left



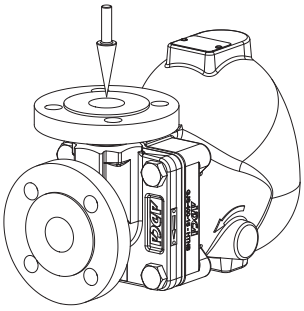
IT - Vertical from top to bottom



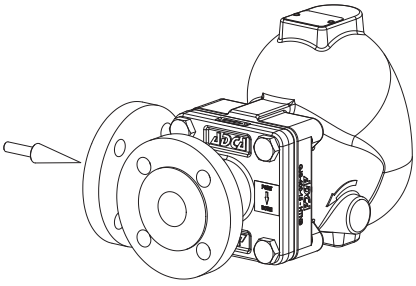
IL - Horizontal from left to right



AR - Angled from right to front



AT - Angled from top to front



AL - Angled from left to front

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ORDERING CODES FLT25

Model	A25	2	V	XX	X	X	IR	A	25	
FLT25 – SG iron	**A25**									
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										
Inline horizontal from right to left (standard)							**IR**			
Inline horizontal from left to right							**IL**			
Inline vertical from top to bottom							**IT**			
Angled from right to front							**AR**			
Angled from left to front							**AL**			
Angled from top to front							**AT**			
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										
1" or DN 25									**25**	
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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