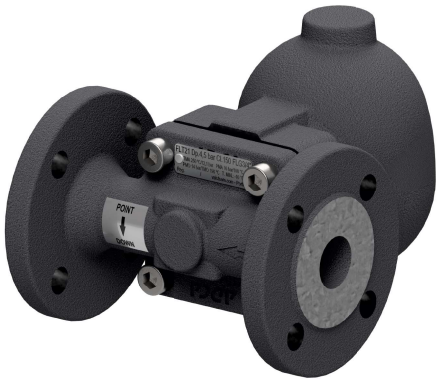
FLOAT AND THERMOSTATIC STEAM TRAPS
FLT21
(SG iron ; 1/2" to 1" – DN 15 to 25)

DESCRIPTION

The FLT21 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: FLT21-4,5 , 10 and 14 – SG iron.

SIZES: 1/2" to 1"; DN 15 to 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.

MAX. ΔP: FLT21-4,5 – 4,5 bar
FLT21-10 – 10 bar
FLT21-14 – 14 bar

BODY LIMITING CONDITIONS		
FLANGED PN 16 * ALLOWABLE PRESSURE	FLANGED CLASS 150 ** ALLOWABLE PRESSURE	RELAT. TEMP.
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.

CE MARKING – GROUP 2 (PED – European Directive)	
PN 16	Category
1/2" to 1" – DN 15 to 25	SEP

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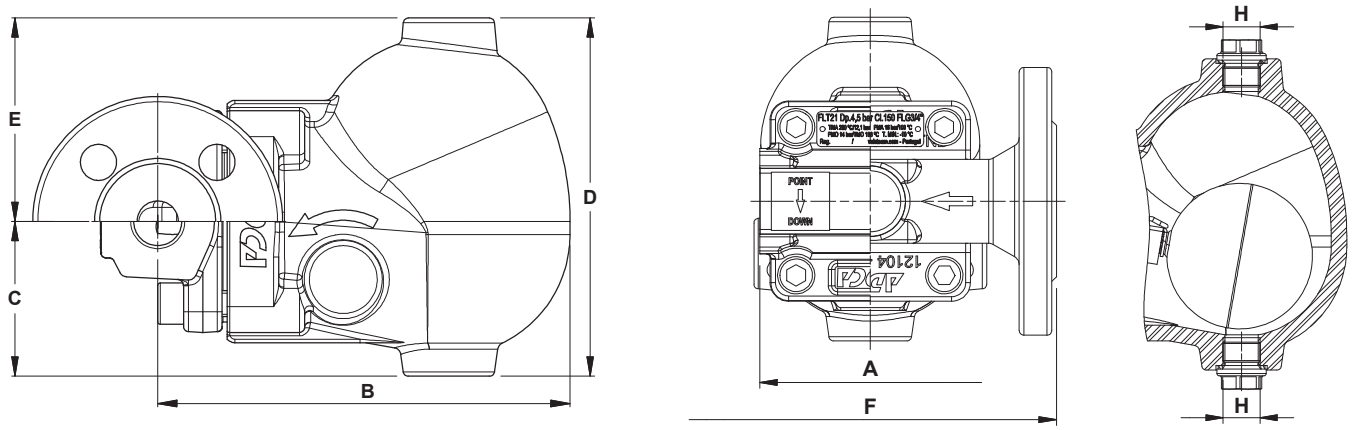
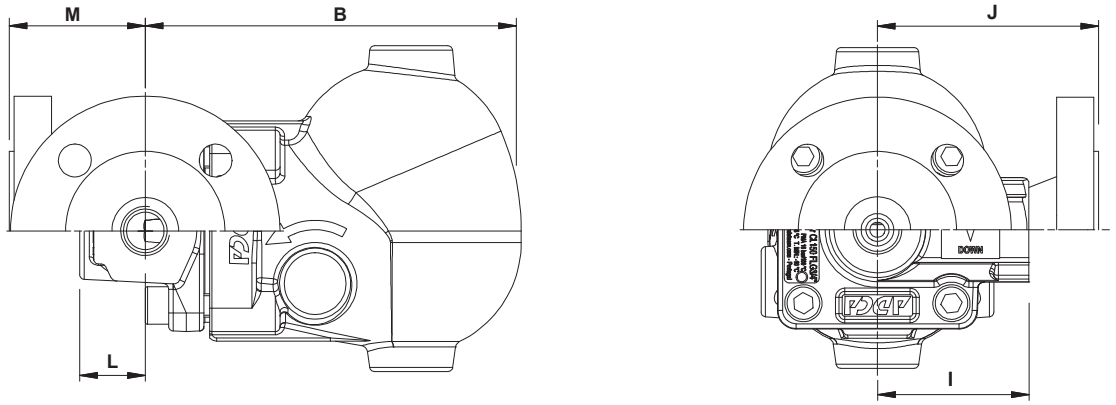
FLOW RATE CAPACITY (kg/h)										
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)								
		0,5	1	1,5	2	4,5	7	10	12	14
FLT21-4,5	1/2" to 1" – DN 15 to 25	305	395	455	500	680	–	–	–	–
FLT21-10	1/2" to 1" – DN 15 to 25	235	330	400	440	630	694	705	–	–
FLT21-14	1/2" to 1" – DN 15 to 25	220	277	318	365	481	556	654	691	710



Inline design



Angled design

DIMENSIONS (mm) – INLINE DESIGN											
THREADED								PN 16		CLASS 150	
SIZE	A	B	C	D	E	H *	WEIGHT (kg)	F	WEIGHT (kg)	F	WEIGHT (kg)
1/2" – DN 15	95	160	60	139	79	3/8"	4,9	150	6,2	150	5,8
3/4" – DN 20	95	160	60	139	79	3/8"	4,8	150	6,7	150	6,1
1" – DN 25	95	160	60	139	79	3/8"	4,7	160	7,4	160	7,2

DIMENSIONS (mm) – ANGLED DESIGN													
THREADED									PN 16			CLASS 150	
SIZE	B	C	D	E	H *	I	L	WGT. (kg)	J	M	WGT. (kg)	J	M	WGT. (kg)
1/2" – DN 15	160	60	139	79	3/8"	65	28	4,9	95	58	6,5	100	63	6
3/4" – DN 20	160	60	139	79	3/8"	65	28	4,9	95	58	7	100	63	6,4
1" – DN 25	160	60	139	79	3/8"	65	28	4,9	95	58	7,5	100	63	6,9

* 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.

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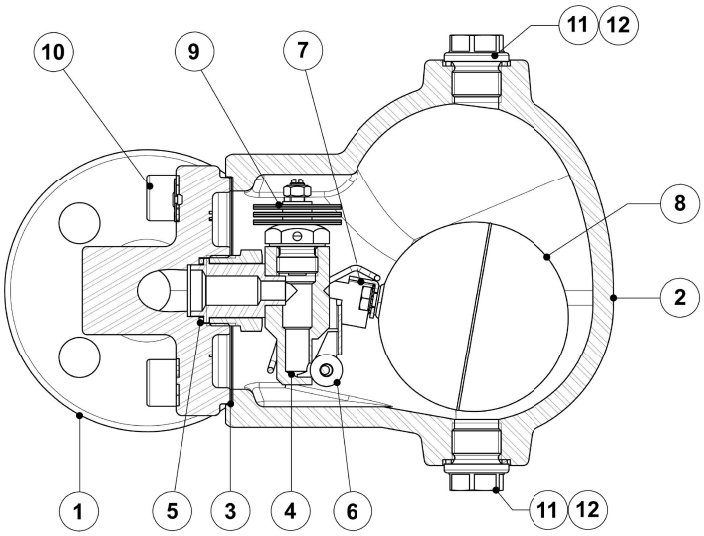
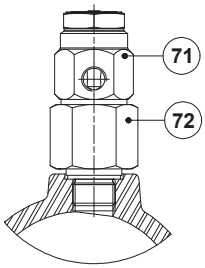
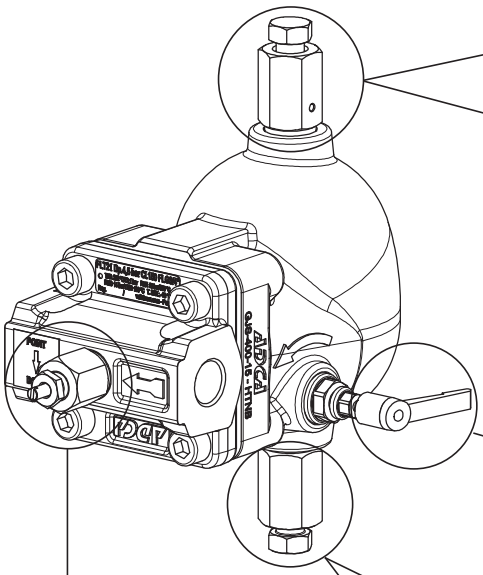
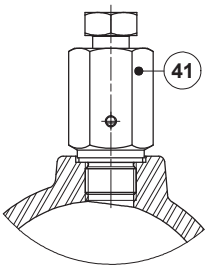
MATERIALS



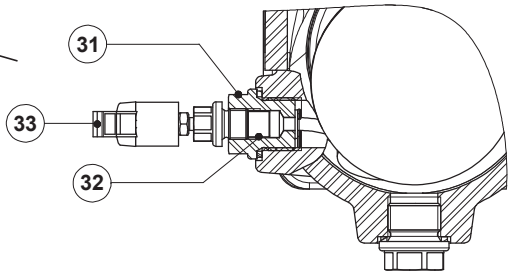


VB21M - Vacuum breaker

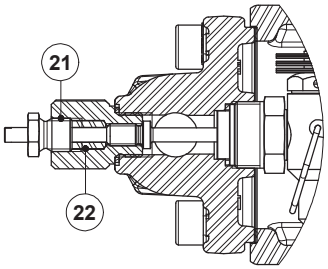




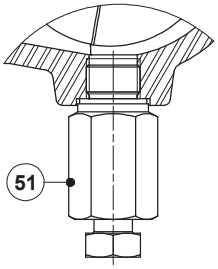
HVV - Hand vent valve



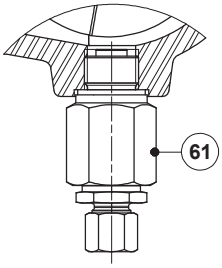
FLL - Float lifting lever



SLR - Steam lock release



BDV - Blowdown valve (Manual)



AFZ - Anti-freeze device (Automatic)

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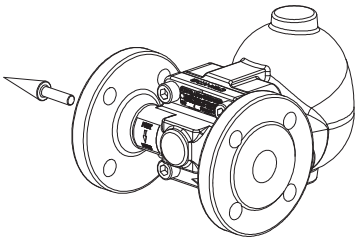
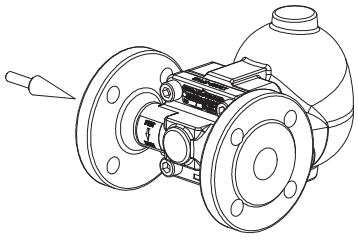
MATERIALS		
POS. Nº	**DESIGNATION**	**MATERIAL**
1	Body (inline flanged)	GJS-400-15 / 0.7040
	Body (inline threaded)	P250GH / 1.0460
	Body (angled)	P250GH / 1.0460
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 /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

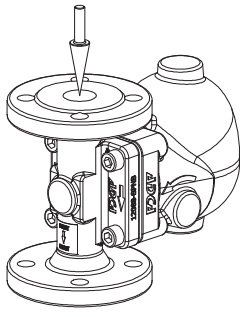
FLOW DIRECTION



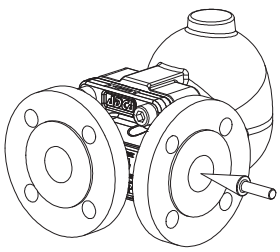
IR - Horizontal from right to left



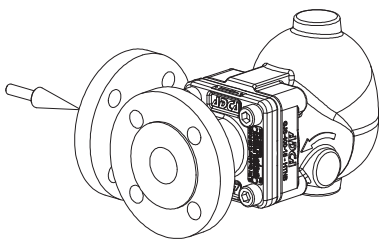
IL - Horizontal from left to right



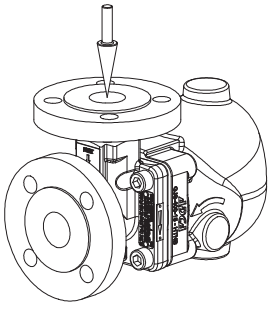
IT - Vertical from top to bottom



AR - Angled from right to front



AL - Angled from left to front



AT - Angled from top to front

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ORDERING CODES FLT21

Model	A21	2	V	XX	X	X	IR	A	15	
FLT21	A21									
Differential pressure										
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										
1/2" or DN 15									15	
3/4" or DN 20									20	
1" or DN 25									25	
Special valves / Extras										
Full description or additional codes have to be added in case of a non-standard combination										E

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