## 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.
ΜΑΧ. ΔΡ:	FLT21-4,5 – 4,5 bar FLT21-10 – 10 bar FLT21-14 – 14 bar

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







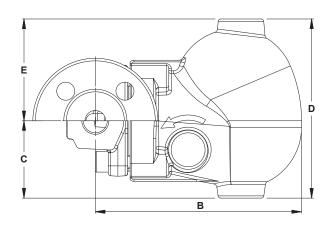
BODY LIMITING CONDITIONS										
FLANGED PN 16 *	FLANGED CLASS 150 **	RELAT.								
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	TEMP.								
16 bar	16 bar	100 °C								
15,5 bar	14,8 bar	150 °C								
14,7 bar	13,9 bar	200 °C								
13,9 bar	12,1 bar	250 °C								
DMO Maximum a	porating prossure: 1/	har								

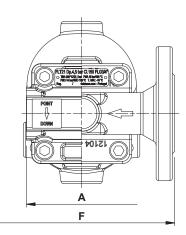
PMO – Maximum operating pressure: 14 bar.

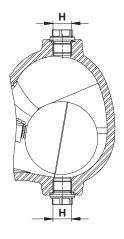
TMO – Maximum operating temperature: 250 °C. \* Acc. to EN 1092-2:2018; \*\* Acc. to ASME B16.42.

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

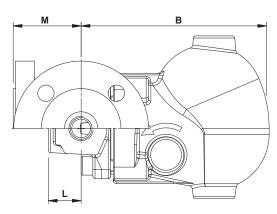
			FLOW R	ATE CAPA	CITY (kg/h)					
MODEL	0175				DIFFEREN	TIAL PRES	SURE (bar)	)		
MODEL	SIZE	0,5	1	1,5	2	4,5	7	10	12	14
FLT21-4,5	1/2" to 1" – DN 15 to 25	305	395	455	500	680	-	-	-	-
FLT21-10	1/2" to 1" – DN 15 to 25	235	330	400	440	630	694	705	-	-
FLT21-14	1/2" to 1" – DN 15 to 25	220	277	318	365	481	556	654	691	710

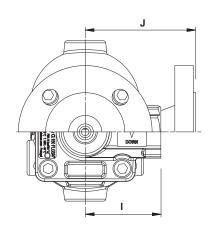






Inline design





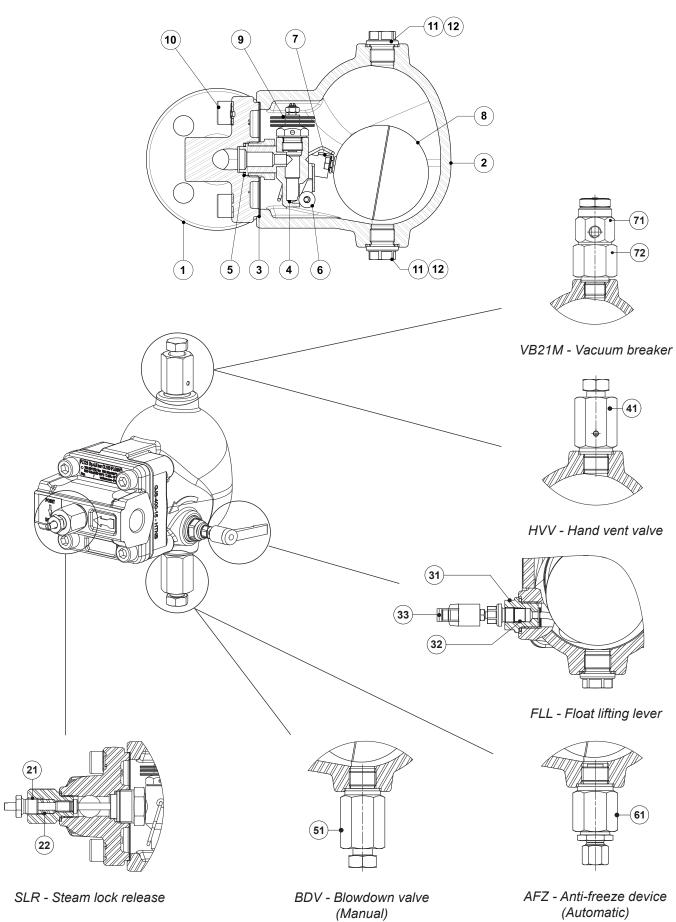
Angled design

				DIMENSI	ONS (mm) -	- INLINE DE	ESIGN				
			THREA	DED				PN	16	CLAS	S 150
SIZE	А	В	С	D	E	Н*	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

				I	DIMENSI	ONS (mm	) – ANGL	ED DESI	GN					
			THR	EADED						PN 16		C	LASS 15	0
SIZE	В	С	D	E	H *	I	L	WGT. (kg)	J	М	WGT. (kg)	J	м	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

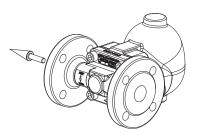
\* As standard, in versions with EN flanges or female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges or female NPT threads, these connections are female threaded NPT.

MATERIALS

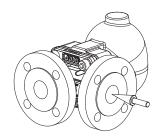


	MA	TERIALS
POS. Nº	DESIGNATION	MATERIAL
	Body (inline flanged)	GJS-400-15 / 0.7040
1	Body (inline threaded)	P250GH / 1.0460
	Body (angled)	P250GH / 1.0460
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401
7	* 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.

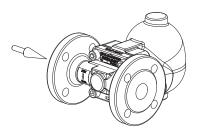


IR - Horizontal from right to left

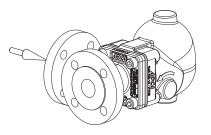


AR - Angled from right to front

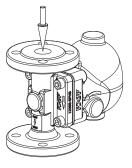
## FLOW DIRECTION



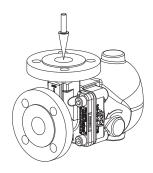
IL - Horizontal from left to right



AL - Angled from left to front



IT - Vertical from top to bottom



AT - Angled from top to front

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

ORDERING	CODES FLT21								
Model	A21	2	V	XX	X	X	IR	Α	15
FLT21	A21								
Differential pressure									
4,5 bar		2	-						
10 bar		3							
14 bar		4							
Automatic air vent									
Bimetallic air vent (standard)			v	1					
None			Х	1					
Cover connections			1						
None				XX	1				
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10					
Options					1				
If any, these have specific separate ordering codes, please refer to the a	ppropriate docume	entation.							
SLR - Steam lock release					1				
None					X	1			
With steam lock release assembled					S	1			
FLL - Float lifting leve	r					1			
None						X	1		
Lifting lever on the right side (when facing the steam trap body)						R	1		
Lifting lever on the left side (when facing the steam trap body)						L	1		
Flow direction							1		
Inline horizontal from right to left (standard)							IR	1	
Inline horizontal from left to right							IL	1	
Inline vertical from top to bottom							IT	1	
Angled from right to front							AR	1	
Angled from left to front							AL	1	
Angled from top to front							AT		
Pipe connectio	ons							1	
Female threaded ISO 7 Rp								Α	1
Female threaded NPT								С	1
Flanged EN 1092-2 PN 16								L	1
Flanged ASME B16.42 Class 150								U	
Size									1
1/2" or DN 15									15
3/4" or DN 20									20
1" or DN 25									25
Special valve	es / Extras								
Full description or additional codes have to be added in case of a non-st	andard combinatio	n							