



## FLOAT AND THERMOSTATIC STEAM TRAPS FLT21

(SG iron; 1/2" to 1" - DN 15 to DN 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.



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.

 $\Delta$ PMX: FLT21-4,5 – 4,5 bar

FLT21-10 - 10 bar FLT21-14 - 14 bar







CE MARKING – GROUP 2 (PED – European Directive)							
PN 16	Category						
PN 16	Category						

1/2" to 1" – DN 15 to 25

ВО	BODY LIMITING CONDITIONS										
FLANGED PN 16 *	FLANGED CLASS 150 **	RELATED									
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	TEMPERATURE									
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.
\* 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.

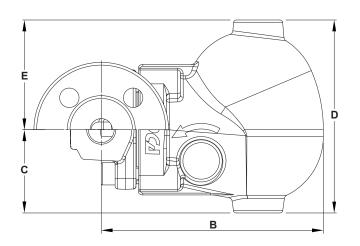


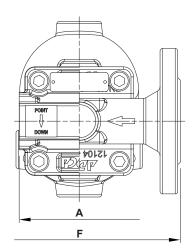
SFP

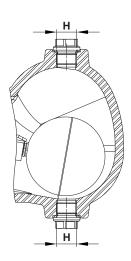




FLOW RATE CAPACITY (kg/h)											
MODEL	6175		DIFFERENTIAL PRESSURE (bar)								
MODEL	SIZE	0,5	1	1,5	2	4,5	12	14			
FLT21-4,5	1/2" to 1" – DN 15 to 25	305	395	455	500	680	_	_	_	_	
FLT21-10	1/2" to 1" – DN 15 to 25	235	330	400	440	630	694	705	_	_	
FLT21-14	1/2" to 1" – DN 15 to 25	220	277	318	365	481	556	654	691	710	



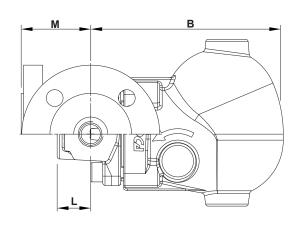


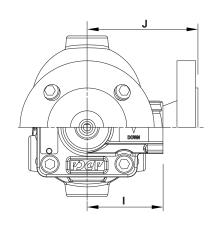


Inline design

DIMENSIONS – INLINE DESIGN (mm)											
CIZE	THREADED PN 16 CL								CLAS	ASS 150	
SIZE	Α	В	С	D	E	H *	WGT. (kg)	F	WGT. (kg)	F	WGT. (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

<sup>\*</sup> 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

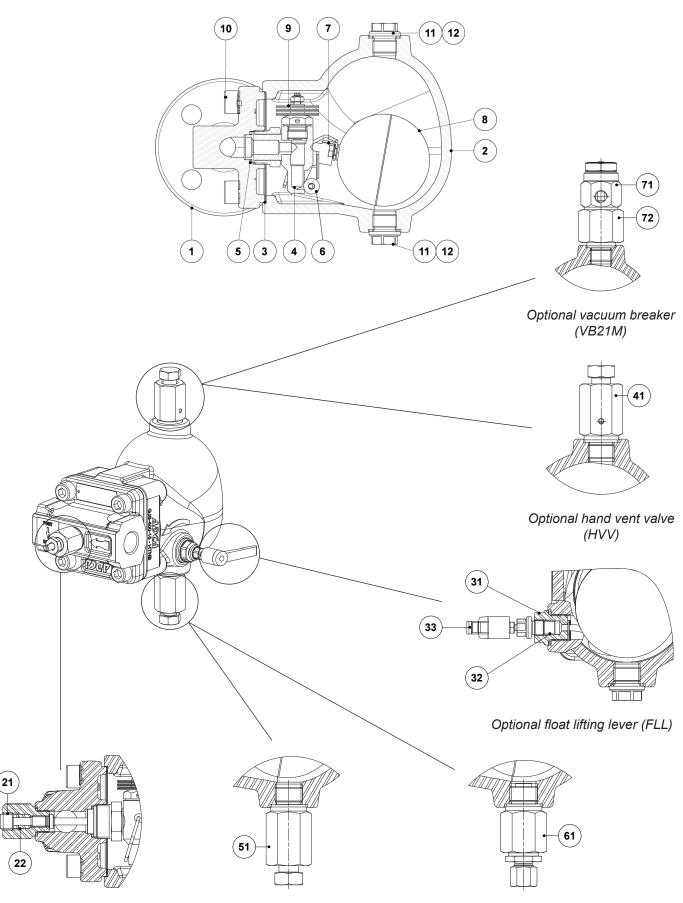
DIMENSIONS – ANGLED DESIGN (mm)														
CIZE	THREADED								PN 16	3	CLASS 150			
SIZE	В	С	D	E	H *	I	L	WGT. (kg)	J	М	WGT. (kg)	J	М	WGT. (kg)
1/2" – DN 15	160	60	139	79	3/8"	65	28	4,9	95	58	6,5	100	63	6
3/4" - DN 20	160	60	139	79	3/8"	65	28	4,9	95	58	7	100	63	6,4
1" – DN 25	160	60	139	79	3/8"	65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

<sup>\*</sup> 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**



Optional steam lock release (SLR)

Optional blowdown valve (BDV);
Manual

Optional anti-freeze device (AFZ); Automatic

VALSTEAM ADCA

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

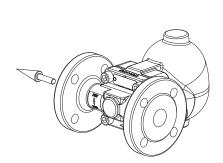




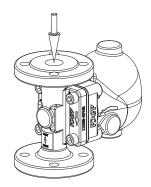
	MATERIALS	8
POS. Nº	DESIGNATION	MATERIAL
	Body (inline flanged)	GJS-400-15 / 0.7040
1	Body (inline threaded)	P250GH / 1.0460
	Body (angled)	P250GH / 1.0460
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401
7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

<sup>\*</sup> Available spare parts; \*\* Not applicable in NPT version.

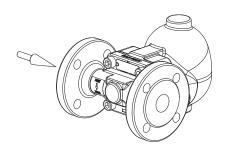
## **FLOW DIRECTION**



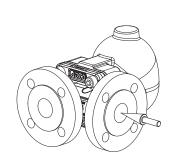
IR - Horizontal from right to left



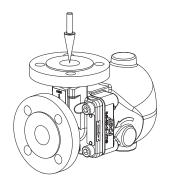
IT - Vertical from top to bottom



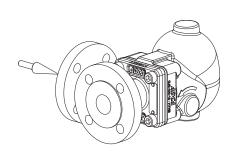
IL - Horizontal from left to right



AR - Angled from right to front



AT - Angled from top to front



AL - Angled from left to front







ORDERING CODE	ES FLT21									
Model	A21	2	V	XX	Х	Х	IR	Α	15	
FLT21	A21									
Maximum allowable differential pressure (ΔPMX)	'									
4,5 bar		2								
10 bar		3								
14 bar		4								
Automatic air vent										
Bimetallic air vent (standard)			V							
None			Х							
Cover connections										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if	any options a	are consid	dered)	10						
Options										
If any, these have specific separate ordering codes, please refer to the approp	riate docume	entation.								
SLR - Steam lock release										
None					X					
With steam lock release assembled					S					
FLL - Float lifting lever										
None						Х				
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										
Pipe connections										
Female threaded ISO 7 Rp								Α		
Female threaded NPT								С		
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 construction / Addi	tional option	ıs								
A full description must to be provided and validated in case of a non-standard	construction.									Е