



FLOAT AND THERMOSTATIC STEAM TRAPS FLT31

(Carbon steel; 1/2" to 1" - DN 15 to DN 25)

DESCRIPTION

The FLT31 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: FLT31-4,5, 14, 10, 21 and 32 – carbon steel.

SIZES: 1/2" to 1"; DN 15 to DN 25.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.

Flanged EN 1092-1 PN 40.

Flanged ASME B16.5 Class 150 or 300.

Socket weld (SW) ASME B16.11.

INSTALLATION: Inline horizontal or vertical installation.

Angled horizontal or vertical installation.

See IMI - Installation and maintenance

instructions.

ΔPMX: FLT31-4,5 – 4,5 bar

FLT31-10 – 10 bar FLT31-14 – 14 bar FLT31-21 – 21 bar FLT31-32 – 32 bar







CE MARKING – GROUP 2 (PED – European Directive)						
PN 40	Category					
1/2" to 1" – DN 15 to 25	SEP					

BODY LIMITING CONDITIONS									
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED							
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	TEMPERATURE							
37,1 bar	17,7 bar	100 °C							
33,3 bar	14 bar	200 °C							
30,4 bar	12,1 bar	250 °C							
27,6 bar	10,2 bar	300 °C							

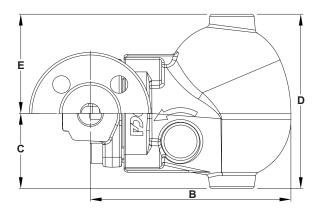
PMO – Maximum operating pressure: 32 bar.
TMO – Maximum operating temperature: 250 °C.
* Acc. to EN 1092-1:2018; ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded and SW versions.

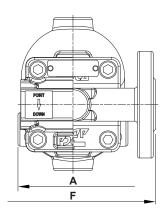


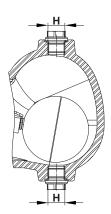




	FLOW RATE CAPACITY (kg/h)													
MODEL	0175	DIFFERENTIAL PRESSURE (bar)												
MODEL	SIZE	0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT31-4,5	1/2" to 1" – DN 15 to 25	305	395	455	500	680	_	_	_	_	_	_	_	_
FLT31-10	1/2" to 1" - DN 15 to 25	235	330	400	440	630	694	705	_	_	_	_	_	_
FLT31-14	1/2" to 1" – DN 15 to 25	220	277	318	365	481	556	654	691	710	_	_	_	_
FLT31-21	1/2" to 1" – DN 15 to 25	148	205	228	255	353	418	485	530	560	595	635	_	_
FLT31-32	1/2" to 1" - DN 15 to 25	72	97	123	155	208	252	323	385	393	410	440	550	595



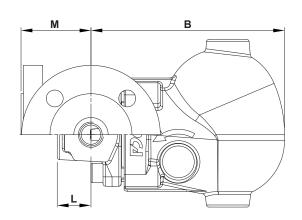


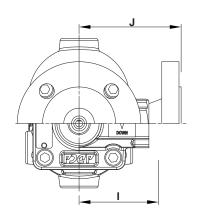


Inline design

DIMENSIONS - INLINE DESIGN (mm)														
CIZE	THREADED / SW							PN 40		CLA	SS 150	CLASS 300		
SIZE	Α	В	С	D	E	H *	WGT. (kg)	F	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	150	6,1	
3/4" – DN 20	95	160	60	139	79	3/8"	4,8	150	6,7	150	6,1	150	7,2	
1" – DN 25	95	160	60	139	79	3/8"	4,7	160	7,4	160	7,2	160	7,9	

^{*} 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, female NPT threads or SW, these connections are female threaded NPT.





Angled design

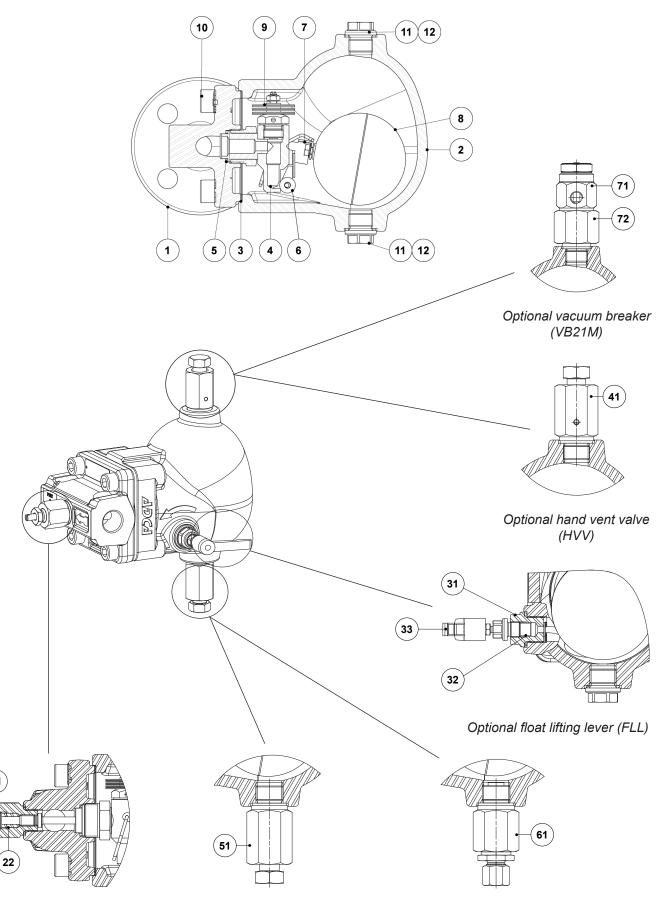
DIMENSIONS - ANGLED DESIGN (mm)																	
THREADED / SW						PN 40			CLASS 150			CLASS 300					
SIZE	В	С	D	E	H *	ı	L	WGT. (kg)	J	М	WGT. (kg)	J	М	WGT. (kg)	J	М	WGT. (kg)
1/2" – DN 15	160	60	139	79	3/8"	65	28	4,9	95	58	6,5	95	58	6	95	58	6,5
3/4" - DN 20	160	60	139	79	3/8"	65	28	4,9	95	58	7	95	58	6,4	95	58	7,5
1" – DN 25	160	60	139	79	3/8"	65	28	4,9	95	58	7,5	95	58	6,9	95	58	8

^{*} 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, female NPT threads or SW, these connections are female threaded NPT.





MATERIALS



Optional steam lock release (SLR)

VALSTEAM ADCA

Optional blowdown valve (BDV); Manual Optional anti-freeze device (AFZ); Automatic

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

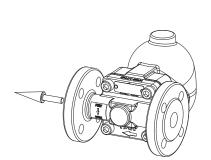




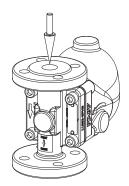
MATERIALS								
POS. Nº	DESIGNATION	MATERIAL						
	Body (inline flanged)	A216 WCB / 1.0619						
1	Body (inline threaded)	P250GH / 1.0460						
	Body (angled)	P250GH / 1.0460						
2	Cover	A216 WCB / 1.0619						
3	* Gasket	Stainless steel / Graphite						
4	* Seat	AISI 303 / 1.4305						
5	* Gasket	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.

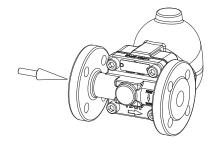
FLOW DIRECTION



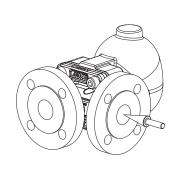
IR - Horizontal from right to left



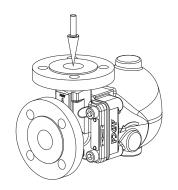
IT - Vertical from top to bottom



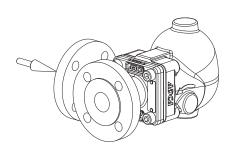
IL - Horizontal from left to right



AR - Angled from right to front



AT - Angled from top to front



AL - Angled from left to front





ORDERING CODES FL	.T31											
Model	A31	2	٧	XX	Х	Х	IR	Α	15			
FLT31 – carbon steel	A31											
Maximum allowable differential pressure (ΔPMX)												
4,5 bar		2										
10 bar		3										
14 bar		4										
21 bar		5										
32 bar		7										
Automatic air vent												
Bimetallic air vent (standard)			٧									
None			Х									
Cover connections												
None				XX								
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any c	ptions are o	consid	ered)	10								
Options												
If any, these have specific separate ordering codes, please refer to the appropriate	documentat	ion.										
SLR - Steam lock release												
None					Х							
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							AT					
Pipe connections												
Female threaded ISO 7 Rp								Α				
Female threaded NPT								С				
Socket weld (SW) ASME 16.11								Н				
Flanged EN 1092-1 PN 40								N				
Flanged ASME B16.5 Class 150								U				
Flanged ASME B16.5 Class 300			٧									
Size												
1/2" or DN 15												
3/4" or DN 20												
1" or DN 25												
Special construction / Additional options												
A full description must to be provided and validated in case of a non-standard construction.										Е		