



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						

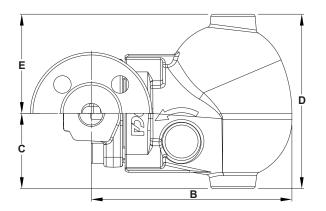
PMO – Maximum operating pressure: 32 bar.
TMO – Maximum operating temperature: 250 °C.
* Acc. to EN 1092-1:2018; ** Acc. to EN 1759-1:2004.
Body limiting conditions PN 40 or below, depending on the type of connection adopted. Rating PN 40 for threaded and SW versions.

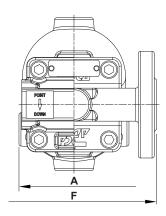


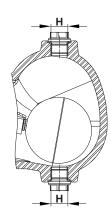




	FLOW RATE CAPACITY (kg/h)													
MODEL	CIZE	DIFFERENTIAL PRESSURE (bar)												
MODEL	SIZE	0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT31-4,5	1/2" to 1" – DN 15 to 25	305	395	455	500	680	_	_	_	_	_	_	-	_
FLT31-10	1/2" to 1" – DN 15 to 25	235	330	400	440	630	694	705	_	_	_	_	_	_
FLT31-14	1/2" to 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



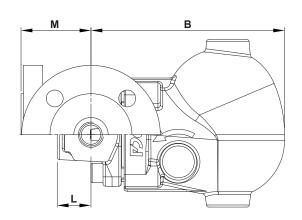


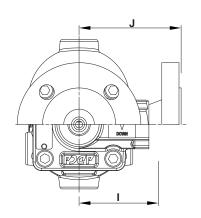


Inline design

DIMENSIONS – INLINE DESIGN (mm)													
SIZE	THREADED / SW							P	N 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

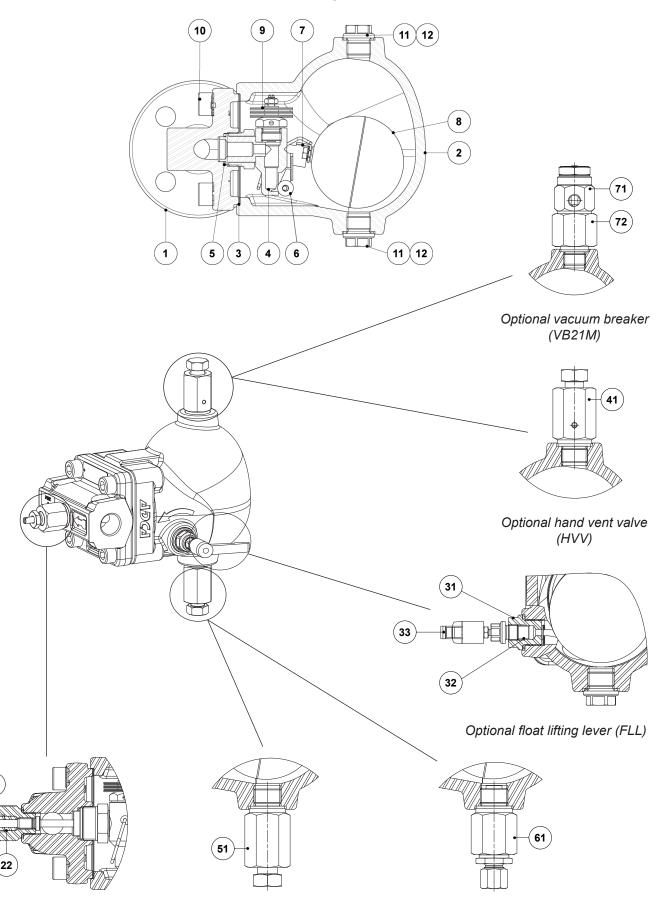
DIMENSIONS - ANGLED DESIGN (mm)																	
THREADED / SW							PN 40			CLASS 150			CLASS 300				
SIZE	В	С	D	E	H *	ı	L	WGT. (kg)	J	М	WGT. (kg)	J	М	WGT. (kg)	J	М	WGT. (kg)
1/2" – DN 15	160	60	139	79	3/8"	65	28	4,9	95	58	6,5	95	58	6	95	58	6,5
3/4" - DN 20	160	60	139	79	3/8"	65	28	4,9	95	58	7	95	58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

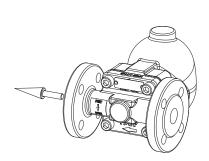




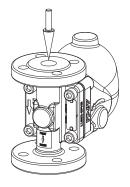
	MATERIALS								
POS. Nº	DESIGNATION	MATERIAL							
	Body (inline flanged)	A216 WCB / 1.0619							
1	Body (inline threaded)	P250GH / 1.0460							
	Body (angled)	P250GH / 1.0460							
2	Cover	A216 WCB / 1.0619							
3	* Gasket	Stainless steel / Graphite							
4	* Seat	AISI 303 / 1.4305							
5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

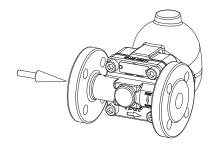
FLOW DIRECTION



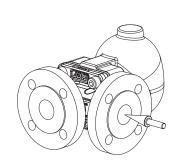
IR - Horizontal from right to left



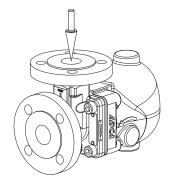
IT - Vertical from top to bottom



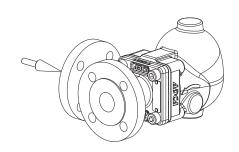
IL - Horizontal from left to right



AR - Angled from right to front



AT - Angled from top to front



AL - Angled from left to front







ORDERING CODES FL	.T31									
Model	A31	2	٧	ХХ	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			X							
Cover connections										
None				XX						
$3/8\ensuremath{^{\text{"}}}$ threaded connections on top and bottom, closed with plugs (mandatory if any σ	options are	consid	ered)	10						
Options										
If any, these have specific separate ordering codes, please refer to the appropriate	documenta	tion.								
SLR - Steam lock release										
None					Х					
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								Α		
Female threaded NPT								С		
Socket weld (SW) ASME B16.11								Н		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
Size										
1/2" or DN 15						-	_		15	
3/4" or DN 20									20	
1" or DN 25									25	
Special construction / Additiona	loptions									
A full description must to be provided and validated in case of a non-standard cons	truction.									Е