

**FLOAT AND THERMOSTATIC STEAM TRAPS  
FLT16**

**DESCRIPTION**

The FLT16 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.

**OPTIONS:** Equalizing (vent) and drain connections.  
SLR – Steam lock release.  
HVV – Hand vent valve.  
BDV – Blowdown valve.  
AFZ – Anti-freeze device.  
VB21M – Vacuum breaker.

**USE:** Saturated and superheated steam.

**AVAILABLE MODELS:** FLT16-4,5, 10 and 14 – SG iron.

**SIZES:** 1/2" and 3/4"; DN 15 and DN 20.

**CONNECTIONS:** Female threaded ISO 7 Rp or NPT.  
Flanged EN 1092-2 PN 16.

**INSTALLATION:** Horizontal installation from right to left (R-L).  
See IMI – Installation and maintenance instructions.  
On request: horizontal installation from left to right (L-R) or vertical from top to bottom (V).

**MAX. ΔP:** FLT16-4,5 – 4,5 bar  
FLT16-10 – 10 bar  
FLT16-14 – 14 bar



BODY LIMITING CONDITIONS *	
ALLOWABLE PRESSURE	RELATED TEMPERATURE
16 bar	100 °C
15,5 bar	150 °C
14,7 bar	200 °C
13,9 bar	250 °C

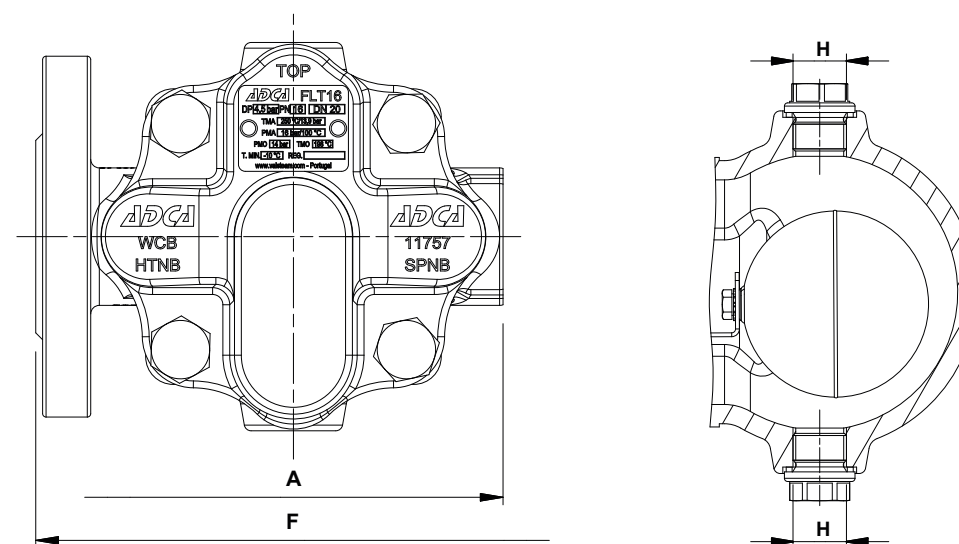
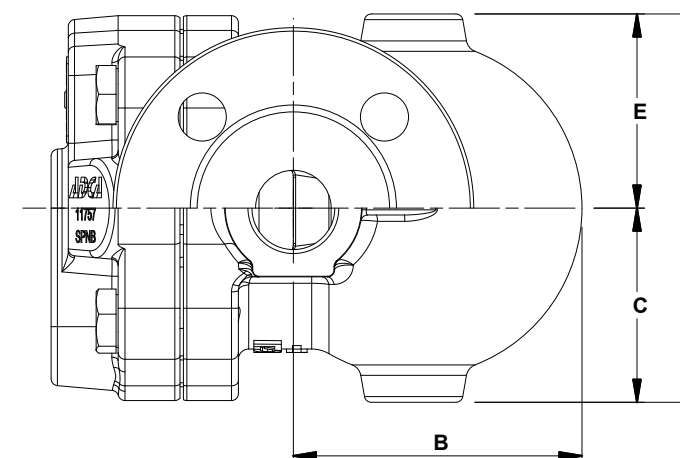
PMO – Maximum operating pressure: 14 bar.  
TMO – Maximum operating temperature: 198 °C.  
\* According to EN 1092-2:2018.

**CE MARKING – GROUP 2 (PED – European Directive)**

PN 16	Category
1/2" and 3/4" – DN 15 and 20	SEP

**FLOW RATE CAPACITY (kg/h)**

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	3	4,5	6	7	8	9	10	12	14
FLT16-4,5	1/2" and 3/4" – DN 15 and 20	200	280	320	360	400	495	–	–	–	–	–	–	–
FLT16-10	1/2" and 3/4" – DN 15 and 20	110	140	175	190	230	280	300	330	350	390	405	–	–
FLT16-14	1/2" and 3/4" – DN 15 and 20	70	100	120	140	155	190	210	220	225	230	260	280	300

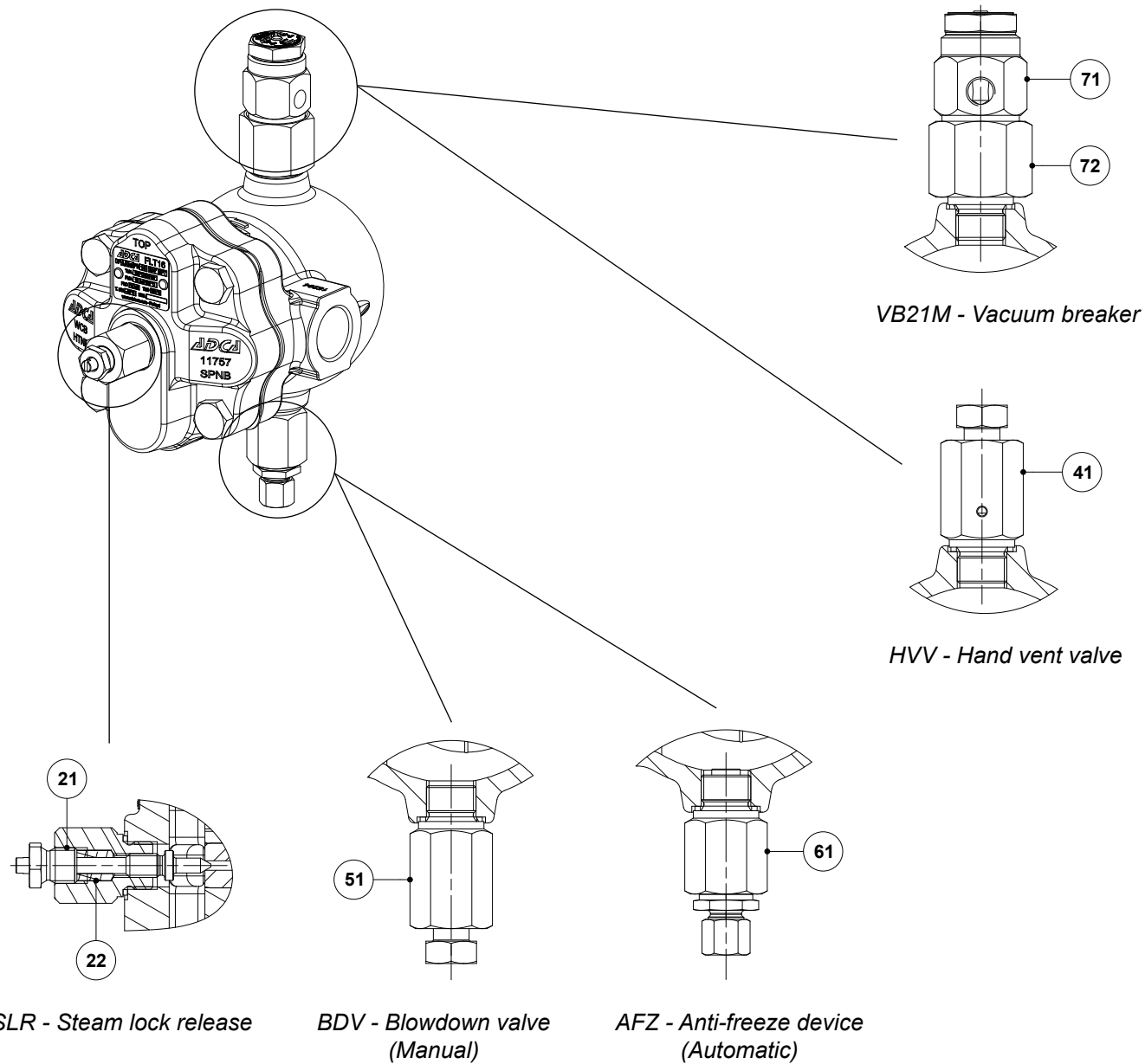
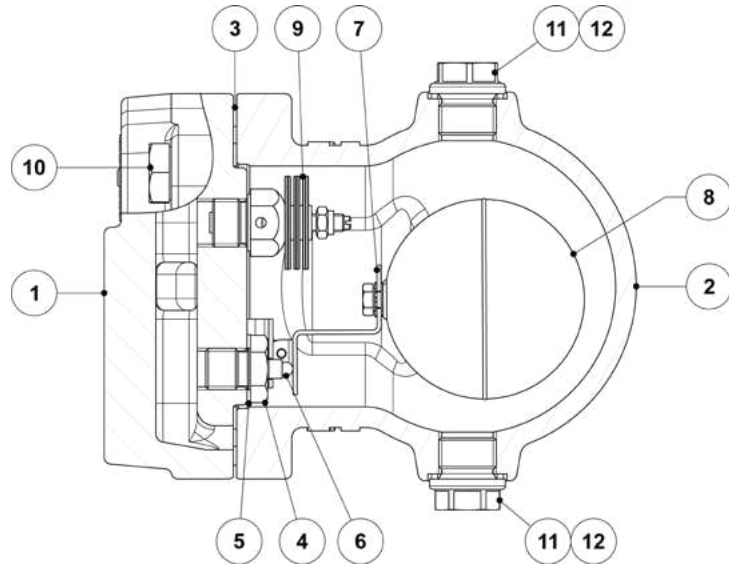


**DIMENSIONS (mm)**

SIZE	THREADED							PN 16		
	A	B	C	D	E	H *	WEIGHT (kg)	E	F	WEIGHT (kg)
1/2" – DN 15	122	84	56,5	113	56,5	3/8"	4,2	56,5	150	4,9
3/4" – DN 20	122	84	56,5	113	56,5	3/8"	4,2	56,5	150	5,3

\* 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**



SLR - Steam lock release

BDV - Blowdown valve  
(Manual)

AFZ - Anti-freeze device  
(Automatic)

VB21M - Vacuum breaker

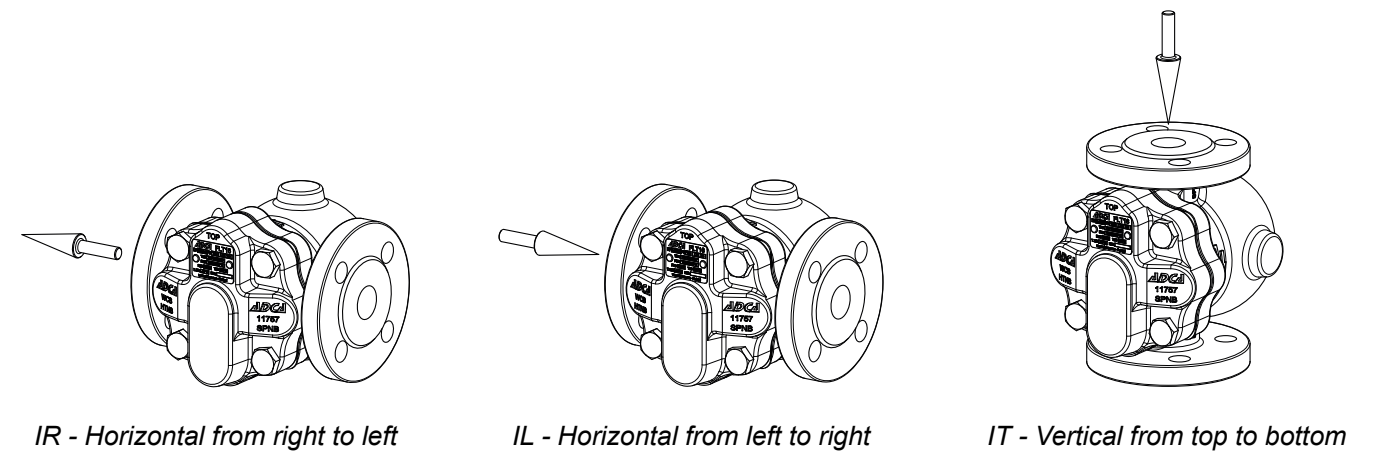
HVV - Hand vent valve

**MATERIALS**

POS. N°	DESIGNATION	MATERIAL
1	Body	GJS-400-15 / 0.7040
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 410 / 1.4006
5	* Gasket	AISI 304 / 1.4301
6	* Valve	AISI 440C / 1.4125
7	* Lever	AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel; Bimetal
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
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.

**FLOW DIRECTION**



IR - Horizontal from right to left

IL - Horizontal from left to right

IT - Vertical from top to bottom

ORDERING CODES FLT16									
Model	A16	2	V	XX	X	IR	A	15	
FLT16	A16								
<b>Differential pressure</b>									
4,5 bar		2							
10 bar		3							
14 bar		4							
<b>Automatic air vent</b>									
Bimetallic air vent (standard)			V						
None			X						
<b>Cover connections</b>									
None				XX					
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered) *									
<b>Options</b>									
If any, these have specific separate ordering codes, please refer to the appropriate documentation.									
<b>SLR - Steam lock release</b>									
None					X				
With steam lock release assembled					S				
<b>Flow direction</b>									
Inline horizontal from right to left (standard)						IR			
Inline horizontal from left to right						IL			
Inline vertical from top to bottom						IT			
<b>Pipe connections</b>									
Female threaded ISO 7 Rp							A		
Female threaded NPT							C		
Flanged EN 1092-2 PN 16							L		
<b>Size</b>									
1/2" or DN 15								15	
3/4" or DN 20								20	
<b>Special valves / Extras</b>									
Full description or additional codes have to be added in case of a non-standard combination									E

\* Not recommended with vertical flow direction, as the connections will be in the horizontal plane.

## FLOAT AND THERMOSTATIC STEAM TRAPS FLT20 (SG iron ; 1/2" to 1" – DN 15 to 25)

### DESCRIPTION

The FLT20 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.  
VB21M – Vacuum breaker.

**USE:** Saturated and superheated steam.

**AVAILABLE MODELS:** FLT20-4,5 , 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:** FLT20-4,5 – 4,5 bar  
FLT20-10 – 10 bar  
FLT20-14 – 14 bar

### CE MARKING – GROUP 2 (PED – European Directive)

PN 16	Category
1/2" to 1" – DN 15 to 25	SEP



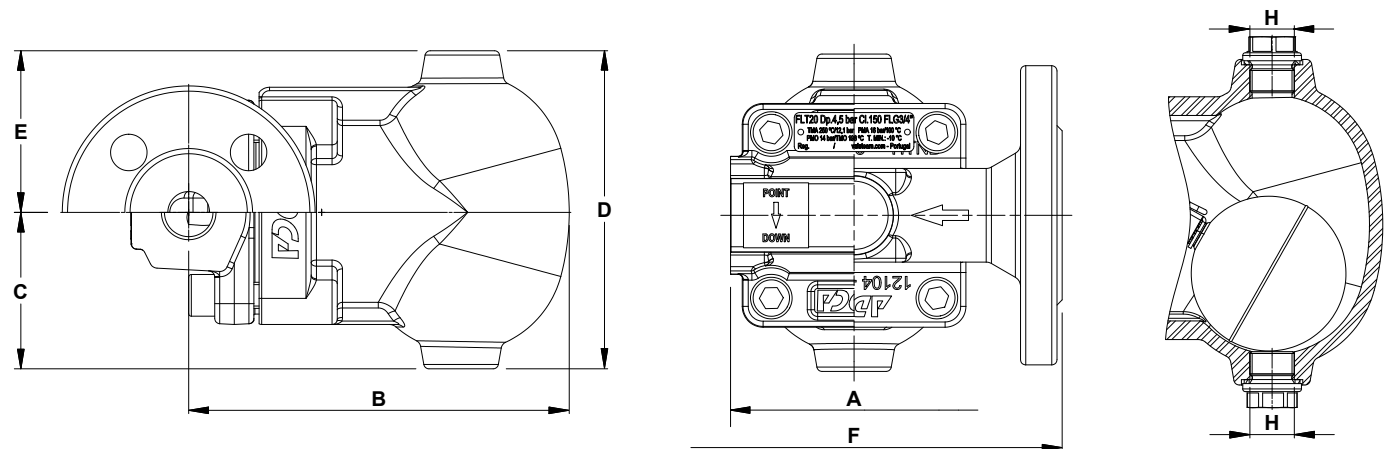
### BODY LIMITING CONDITIONS

FLANGED PN 16 * ALLOWABLE PRESSURE	FLANGED CLASS 150 ** ALLOWABLE PRESSURE	RELAT. 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

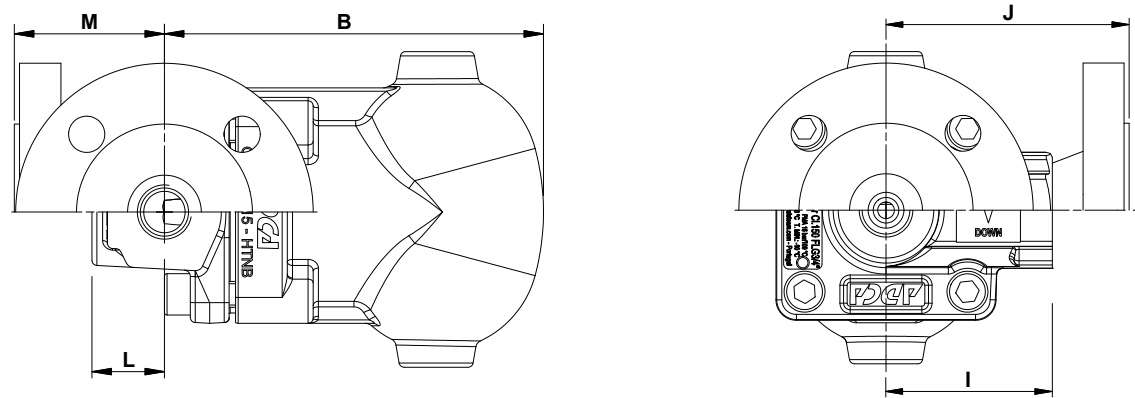
PMO – Maximum operating pressure: 14 bar.  
TMO – Maximum operating temperature: 250 °C.  
\* Acc. to EN 1092-2:2018; \*\* Acc. to ASME B16.42.  
Body limiting conditions PN 16 or below, depending on the type of connection adopted. Rating PN 16 for threaded versions.



FLOW RATE CAPACITY (kg/h)										
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)								
		0,5	1	1,5	2	4,5	7	10	12	14
FLT20-4,5	1/2" to 1" – DN 15 to 25	220	280	320	360	495	–	–	–	–
FLT20-10	1/2" to 1" – DN 15 to 25	200	252	290	335	440	505	595	–	–
FLT20-14	1/2" to 1" – DN 15 to 25	145	198	225	252	350	415	480	535	580



Inline design



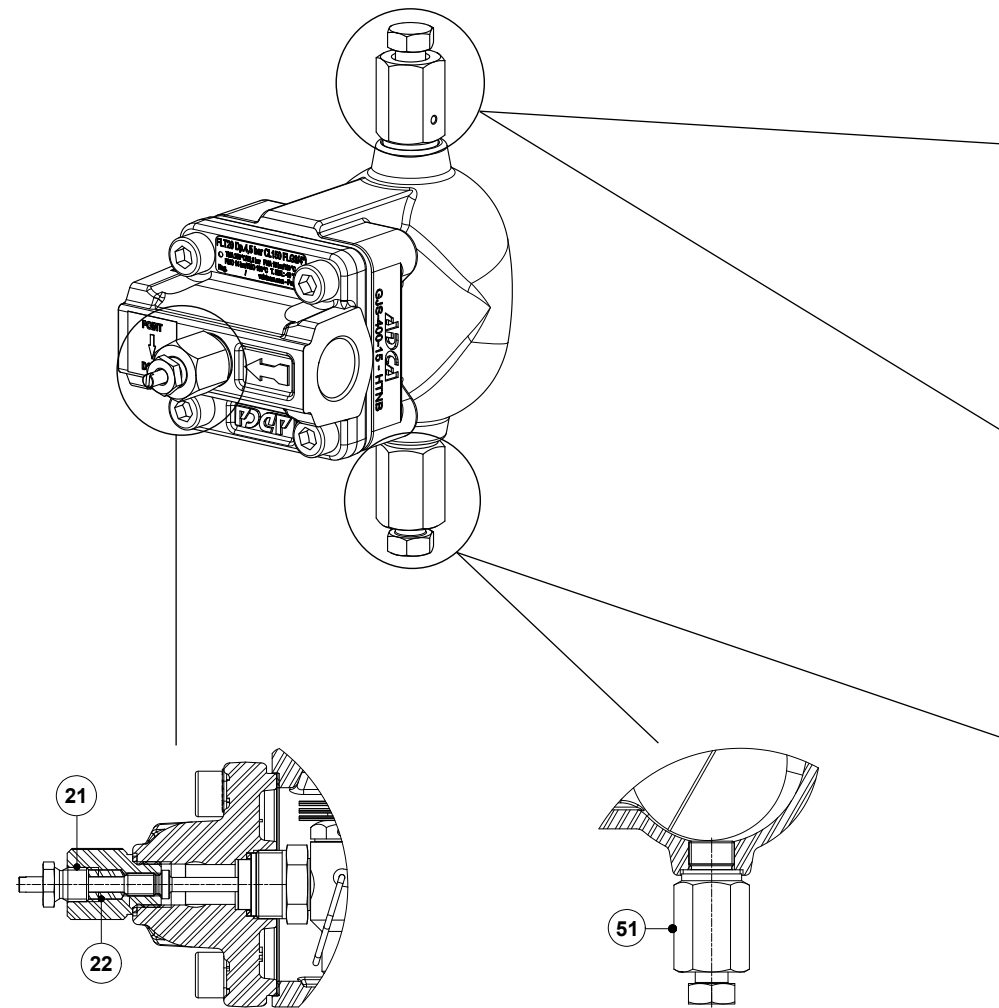
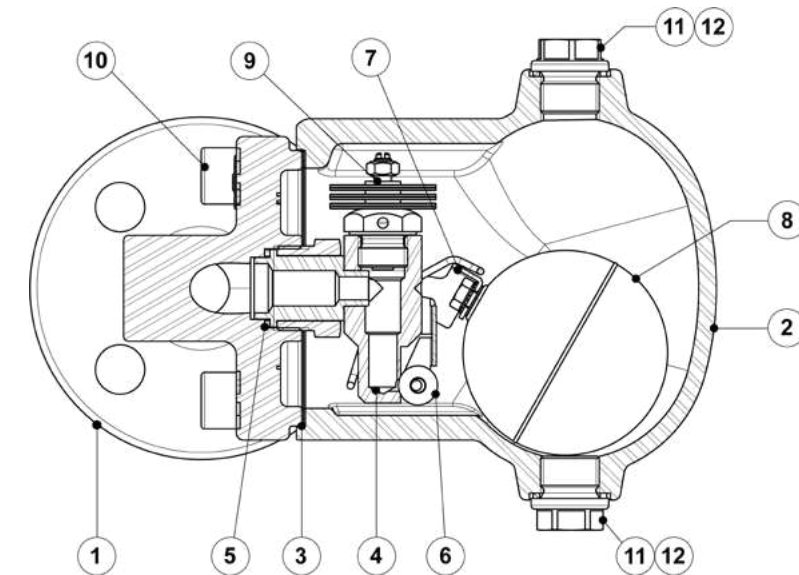
Angled design

DIMENSIONS (mm) – INLINE DESIGN											
SIZE	THREADED							PN 16		CLASS 150	
	A	B	C	D	E	H *	WEIGHT (kg)	F	WEIGHT (kg)	F	WEIGHT (kg)
1/2" – DN 15	95	146	60	122	62	3/8"	3,8	150	5,1	150	4,8
3/4" – DN 20	95	146	60	122	62	3/8"	3,8	150	5,7	150	5
1" – DN 25	95	146	60	122	62	3/8"	3,6	160	6,4	160	6

DIMENSIONS (mm) – ANGLED DESIGN														
SIZE	THREADED								PN 16			CLASS 150		
	B	C	D	E	H *	I	L	WGT. (kg)	J	M	WGT. (kg)	J	M	WGT. (kg)
1/2" – DN 15	146	60	122	62	3/8"	65	28	3,8	95	58	5,3	100	63	4,8
3/4" – DN 20	146	60	122	62	3/8"	65	28	3,8	95	58	5,9	100	63	5,2
1" – DN 25	146	60	122	62	3/8"	65	28	3,8	95	58	6,3	100	63	5,7

\* 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.

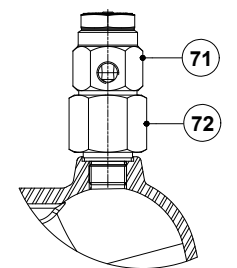
**MATERIALS**



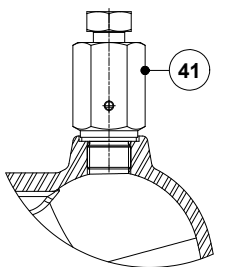
SLR - Steam lock release

BDV - Blowdown valve (Manual)

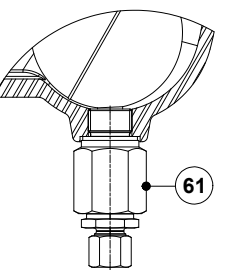
AFZ - Anti-freeze device (Automatic)



VB21M - Vacuum breaker



HVV - Hand vent valve

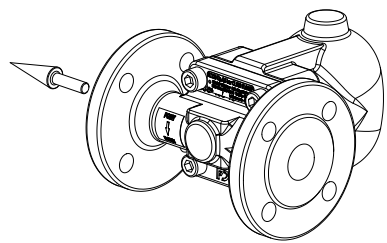




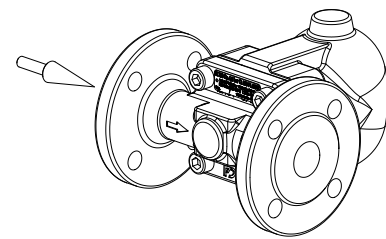
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body (inline flanged)	GJS-400-15 / 0.7040
	Body (inline threaded)	P250GH / 1.0460
	Body (angled)	P250GH / 1.0460
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401
7	* 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
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.

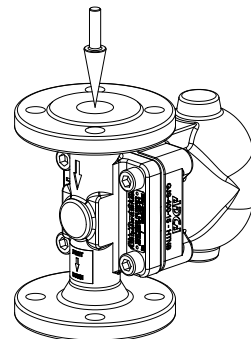
**FLOW DIRECTION**



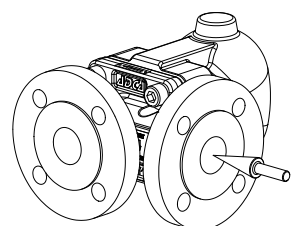
IR - Horizontal from right to left



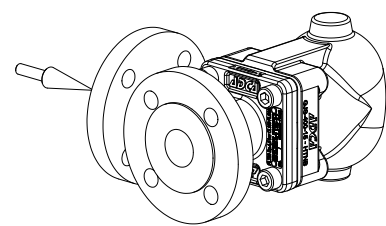
IL - Horizontal from left to right



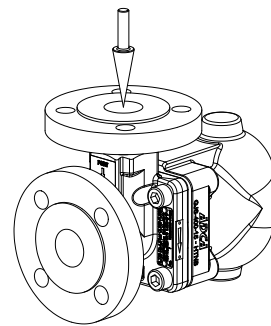
IT - Vertical from top to bottom



AR - Angled from right to front



AL - Angled from left to front



AT - Angled from top to front

ORDERING CODES FLT20										
Model	A20	2	V	XX	X	IR	A	15		
FLT20	A20									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
14 bar		4								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None								X		
With steam lock release assembled								S		
<b>Flow direction</b>										
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	
<b>Pipe connections</b>										
Female threaded ISO 7 Rp										A
Female threaded NPT										C
Flanged EN 1092-2 PN 16										L
Flanged ASME B16.42 Class 150										U
<b>Size</b>										
1/2" or DN 15										15
3/4" or DN 20										20
1" or DN 25										25
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										
										E

## 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



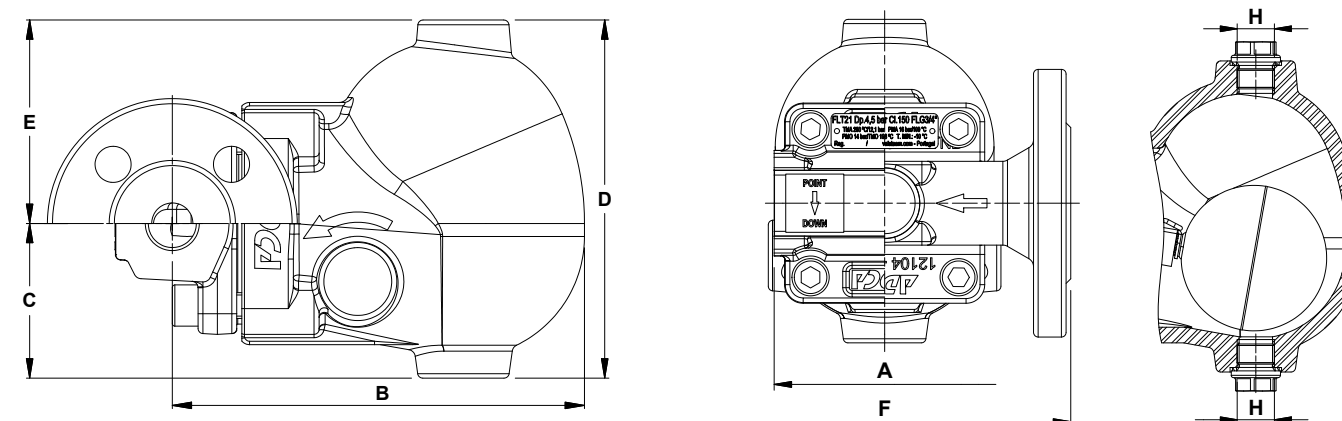
BODY LIMITING CONDITIONS		
FLANGED PN 16 *	FLANGED CLASS 150 **	RELAT. TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
16 bar	16 bar	100 °C
15,5 bar	14,8 bar	150 °C
14,7 bar	13,9 bar	200 °C
13,9 bar	12,1 bar	250 °C

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.

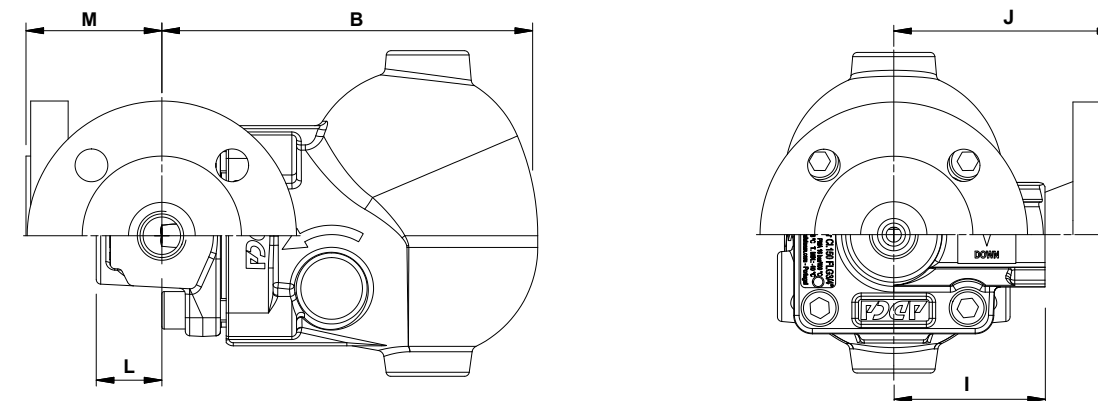
CE MARKING – GROUP 2 (PED – European Directive)	
PN 16	Category
1/2" to 1" – DN 15 to 25	SEP

### 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

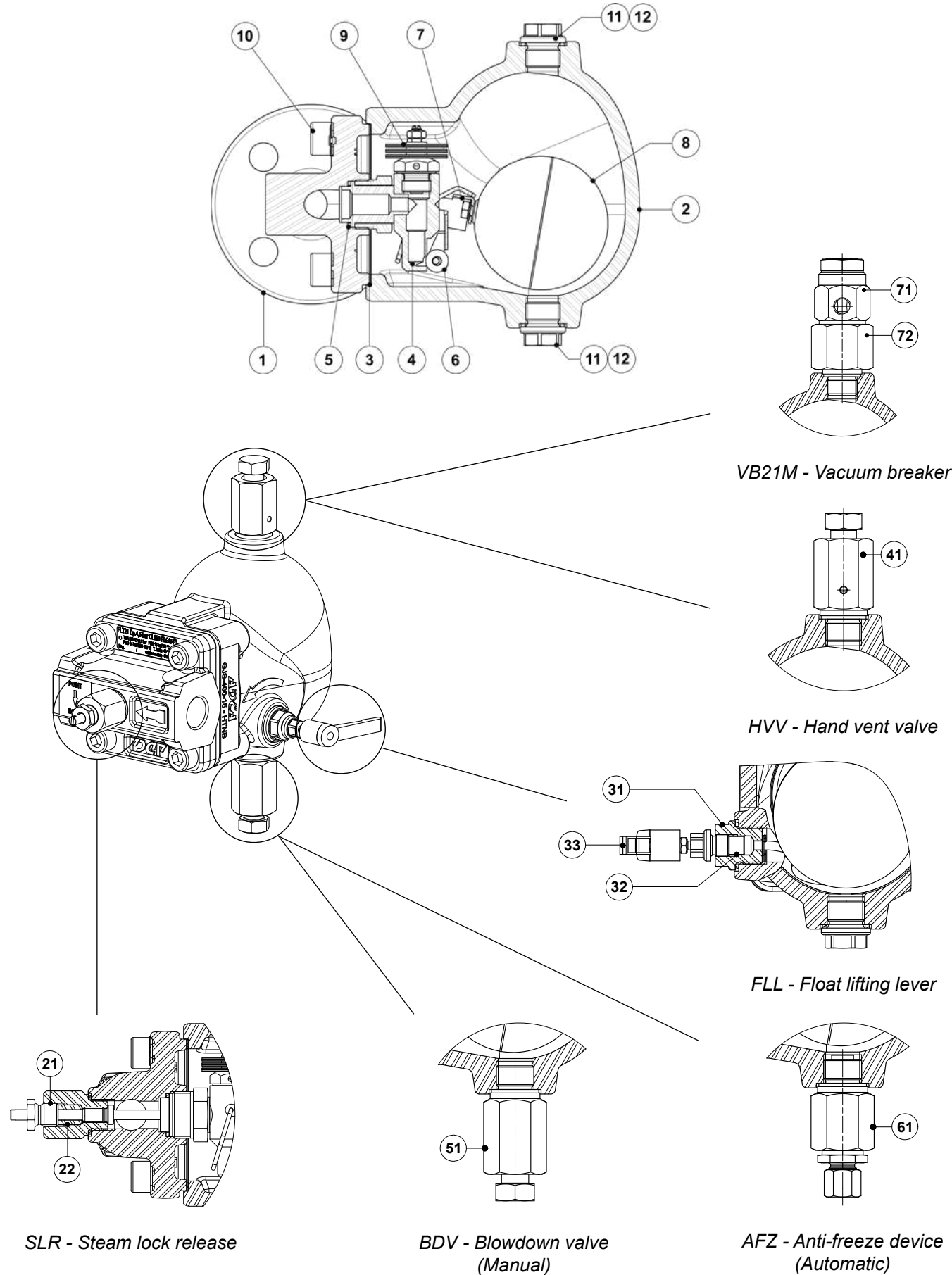
SIZE	THREADED							PN 16		CLASS 150	
	A	B	C	D	E	H *	WEIGHT (kg)	F	WEIGHT (kg)	F	WEIGHT (kg)
1/2" – DN 15	95	160	60	139	79	3/8"	4,9	150	6,2	150	5,8
3/4" – DN 20	95	160	60	139	79	3/8"	4,8	150	6,7	150	6,1
1" – DN 25	95	160	60	139	79	3/8"	4,7	160	7,4	160	7,2

### DIMENSIONS (mm) – ANGLED DESIGN

SIZE	THREADED								PN 16		CLASS 150			
	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.

**MATERIALS**

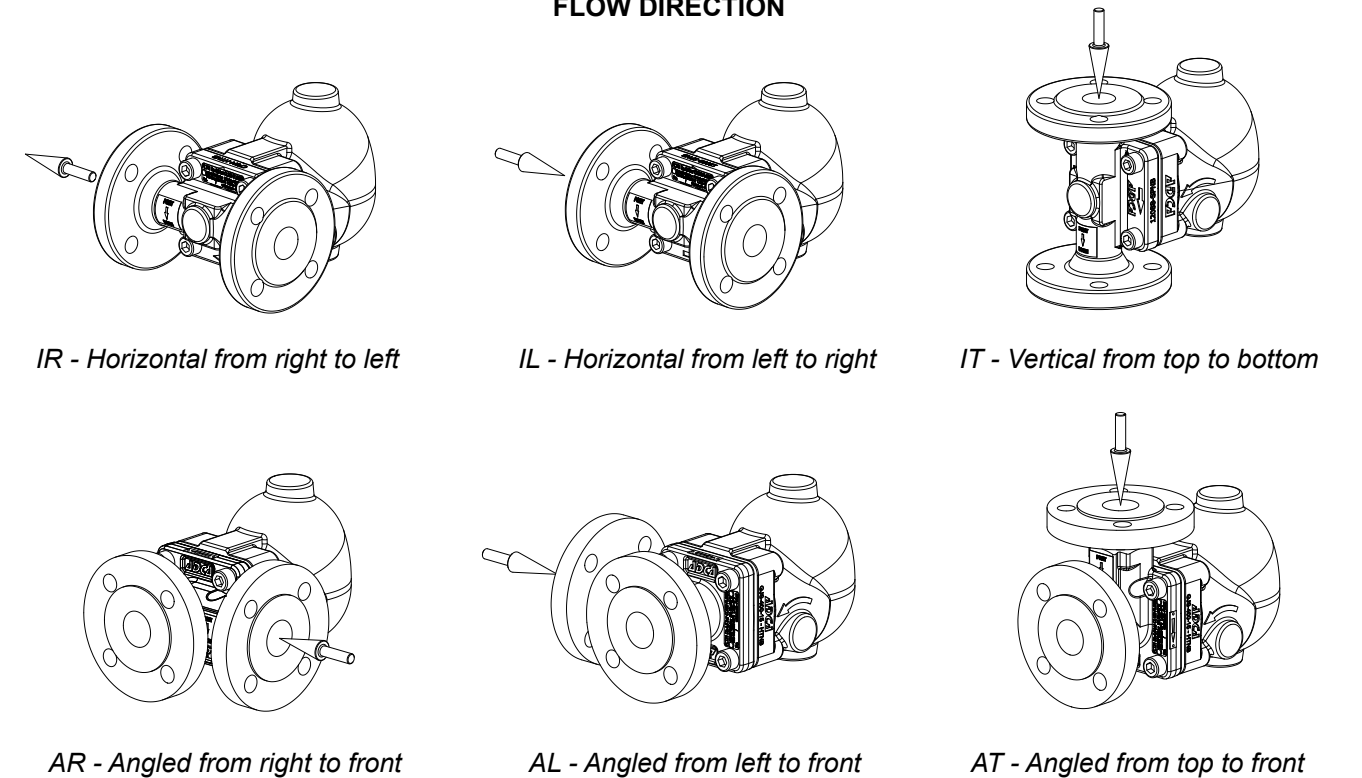


**MATERIALS**

POS. N°	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**





ORDERING CODES FLT21										
Model	A21	2	V	XX	X	X	IR	A	15	
FLT21	A21									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
14 bar		4								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None							X			
With steam lock release assembled							S			
<b>FLL - Float lifting lever</b>										
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	
<b>Flow direction</b>										
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	
<b>Pipe connections</b>										
Female threaded ISO 7 Rp										A
Female threaded NPT										C
Flanged EN 1092-2 PN 16										L
Flanged ASME B16.42 Class 150										U
<b>Size</b>										
1/2" or DN 15										15
3/4" or DN 20										20
1" or DN 25										25
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

**FLOAT AND THERMOSTATIC STEAM TRAPS  
FLT25  
(SG iron ; 1" – DN 25)**

**DESCRIPTION**

The FLT25 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:** FLT25-4,5 , 10 and 14 – SG iron.

**SIZES:** 1"; 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:** FLT25-4,5 – 4,5 bar  
FLT25-10 – 10 bar  
FLT25-14 – 14 bar

**CE MARKING – GROUP 2 (PED – European Directive)**

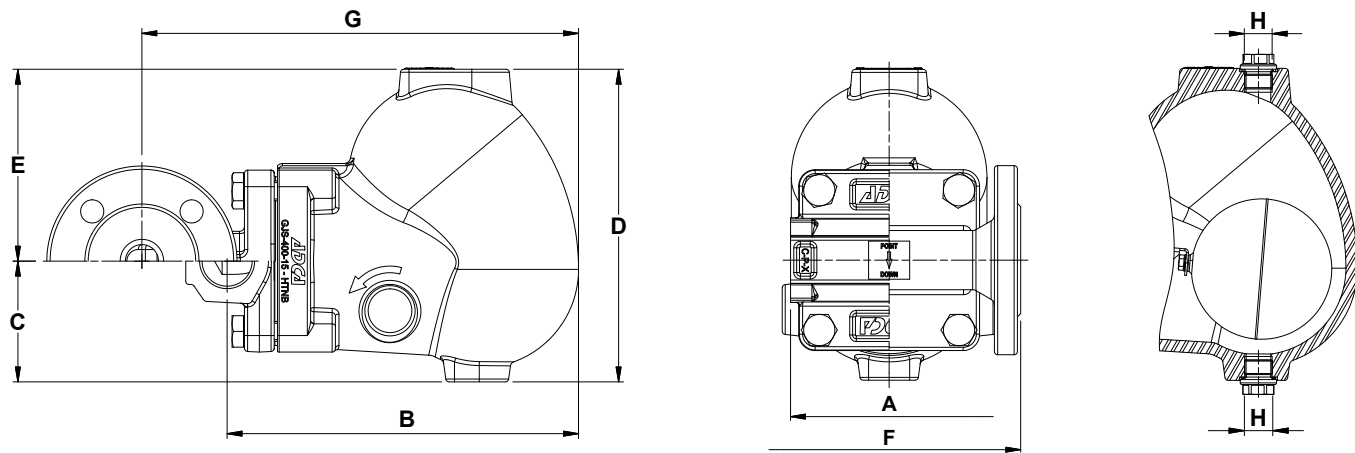
PN 16	Category
1" – DN 25	SEP



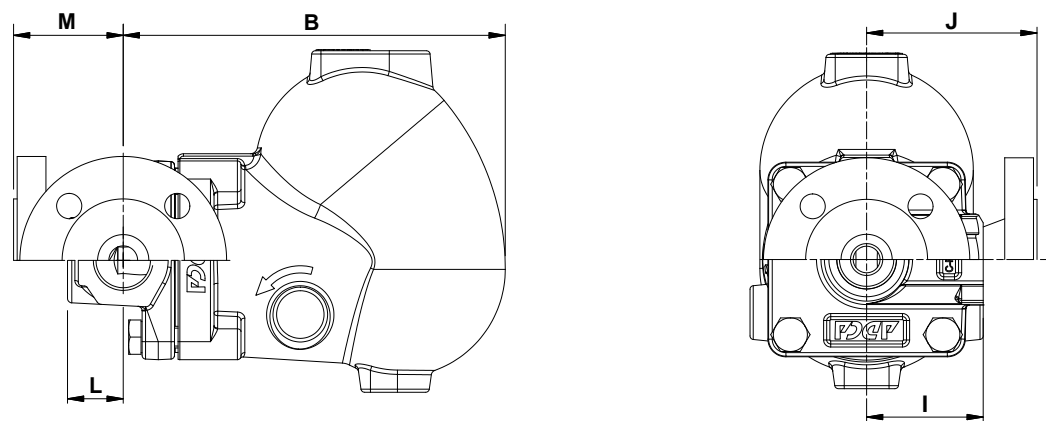
BODY LIMITING CONDITIONS		
FLANGED PN 16 *	FLANGED CLASS 150 **	RELAT. TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
16 bar	16 bar	100 °C
15,5 bar	14,8 bar	150 °C
14,7 bar	13,9 bar	200 °C
13,9 bar	12,1 bar	250 °C

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.

FLOW RATE CAPACITY (kg/h)										
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)								
		0,5	1	1,5	2	4,5	7	10	12	14
FLT25-4,5	1" – DN 25	900	1250	1490	1630	2490	–	–	–	–
FLT25-10	1" – DN 25	445	610	705	850	1285	1670	1820	–	–
FLT25-14	1" – DN 25	335	445	515	600	885	1150	1350	1500	1610



Inline design



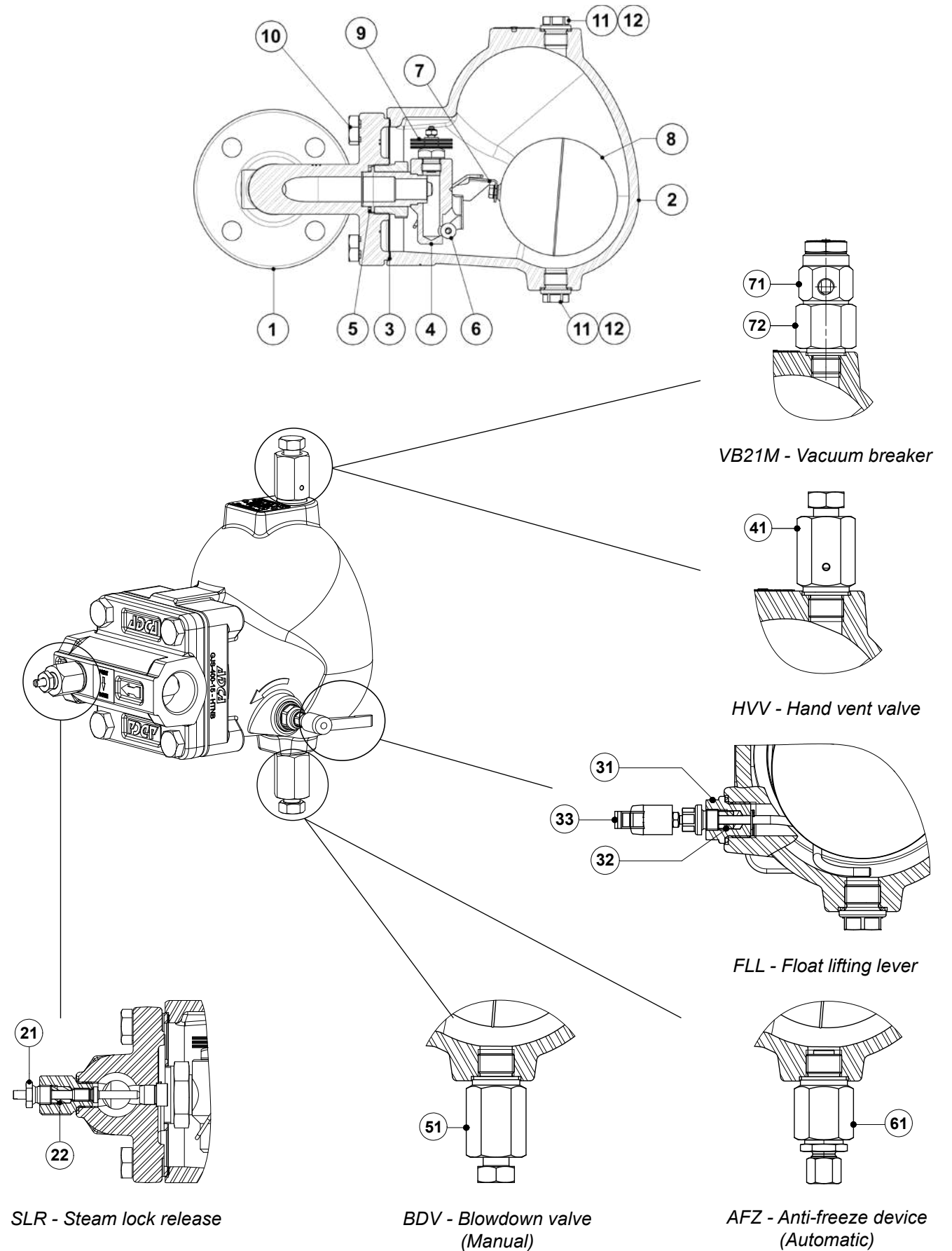
Angled design

DIMENSIONS (mm) – INLINE DESIGN													
SIZE	THREADED							PN 16			CLASS 150		
	A	B	C	D	E	H*	WEIGHT (kg)	F	G	WEIGHT (kg)	F	G	WEIGHT (kg)
1" – DN 25	120	212	73	189	116	3/8"	8,9	160	264	12	160	264	11,9

DIMENSIONS (mm) – ANGLED DESIGN														
SIZE	THREADED								PN 16			CLASS 150		
	B	C	D	E	H*	I	L	WGT. (kg)	J	M	WGT. (kg)	J	M	WGT. (kg)
1" – DN 25	212	73	189	116	3/8"	65	31	8,4	95	61	11	100	66	10,5

\* 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.

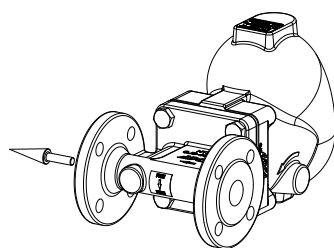
**MATERIALS**



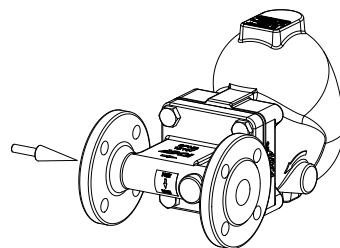
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body (inline flanged)	GJS-400-15 / 0.7040
	Body (inline threaded)	P250GH / 1.0460
	Body (angled)	P250GH / 1.0460
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401
7	* 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.

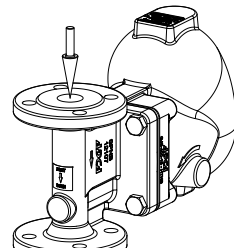
**FLOW DIRECTION**



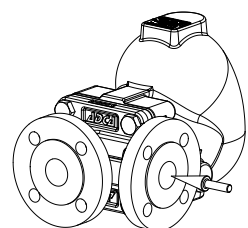
IR - Horizontal from right to left



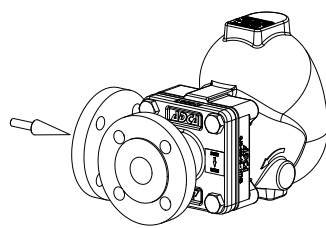
IL - Horizontal from left to right



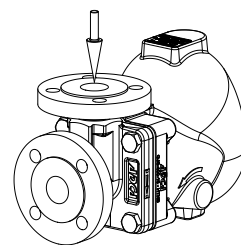
IT - Vertical from top to bottom



AR - Angled from right to front



AL - Angled from left to front



AT - Angled from top to front

ORDERING CODES FLT25										
Model	A25	2	V	XX	X	X	IR	A	25	
FLT25	A25									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
14 bar		4								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None							X			
With steam lock release assembled							S			
<b>FLL - Float lifting lever</b>										
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		
<b>Flow direction</b>										
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	
<b>Pipe connections</b>										
Female threaded ISO 7 Rp										A
Female threaded NPT										C
Flanged EN 1092-2 PN 16										L
Flanged ASME B16.42 Class 150										U
<b>Size</b>										
1" or DN 25										25
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										
										E



**FLOAT AND THERMOSTATIC STEAM TRAPS**  
**FLT27**  
**(SG iron ; 1 1/2" and 2" – DN 40 and 50)**

**DESCRIPTION**

The FLT27 is a range 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 and high flow capacities are involved.

**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:** FLT27-4,5 , 10 and 14 – SG iron.

**SIZES:** 1 1/2" and 2"; DN 40 and DN 50.

**CONNECTIONS:** Female threaded ISO 7 Rp or NPT.  
Flanged EN 1092-2 PN 16.  
Flanged ASME B16.42 Class 150.

**INSTALLATION:** Horizontal or vertical installation.

**MAX. ΔP:** FLT27-4,5 – 4,5 bar  
FLT27-10 – 10 bar  
FLT27-14 – 14 bar



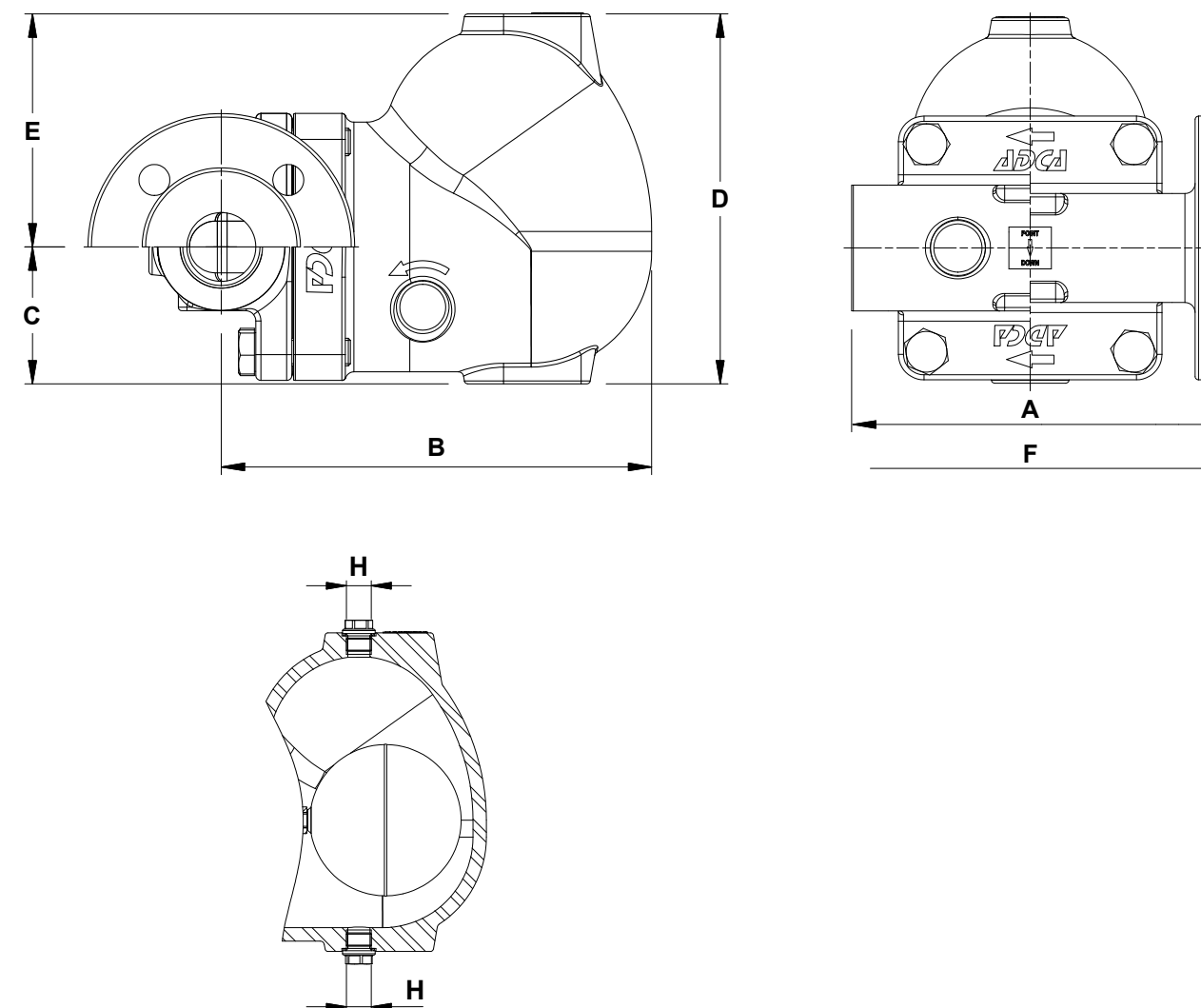
BODY LIMITING CONDITIONS		
FLANGED PN 16 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
16 bar	16 bar	100 °C
15,5 bar	14,8 bar	150 °C
14,7 bar	13,9 bar	200 °C
13,9 bar	12,1 bar	250 °C

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.

CE MARKING – GROUP 2 (PED – European Directive)	
PN 16	Category
1 1/2" and 2" – DN 40 and 50	SEP

**FLOW RATE CAPACITY (kg/h)**

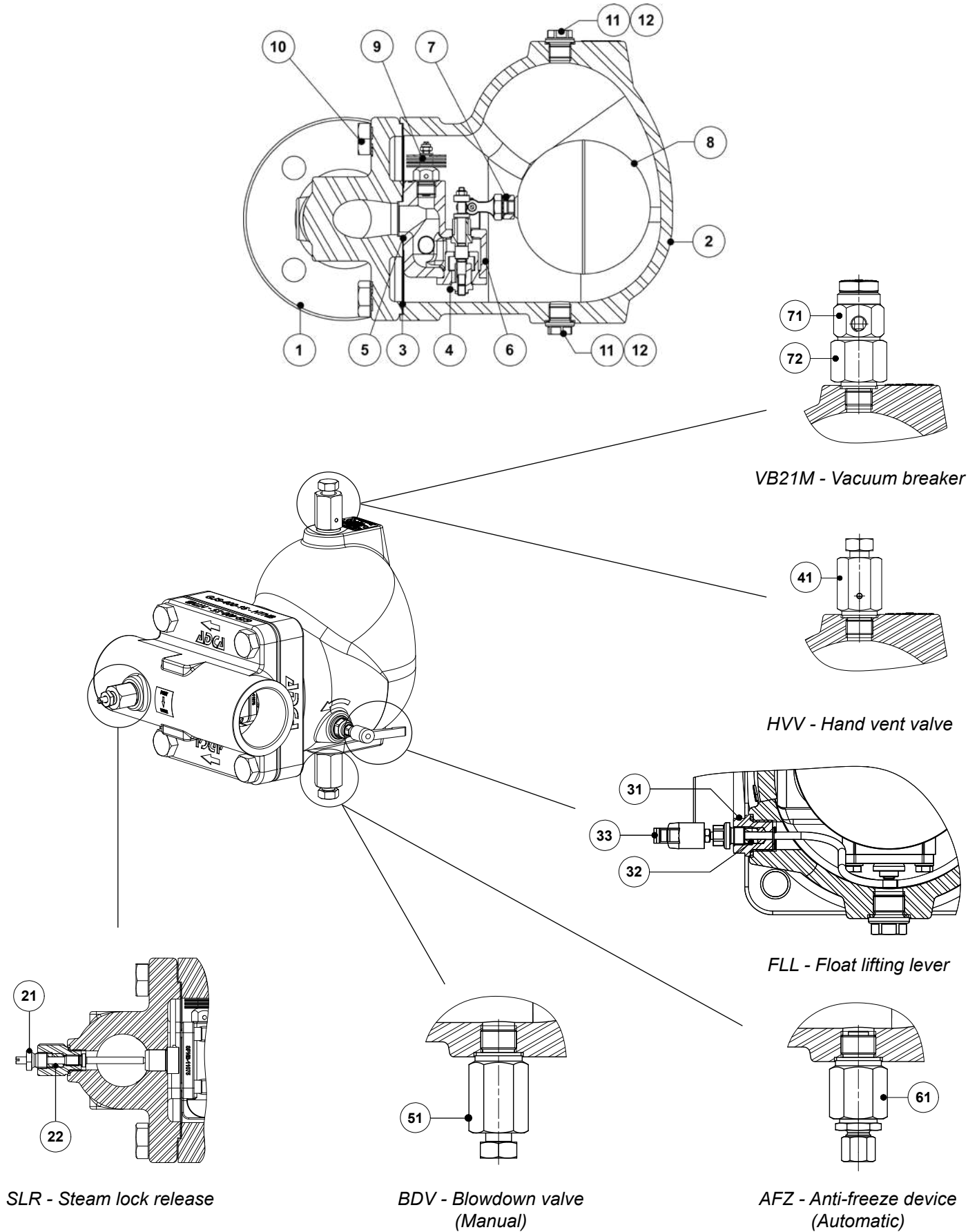
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)								
		0,5	1	1,5	2	4,5	7	10	12	14
FLT27-4,5	1 1/2" and 2" – DN 40 and 50	2400	3400	3900	4500	7300	–	–	–	–
FLT27-10	1 1/2" and 2" – DN 40 and 50	1500	2000	2600	3000	4000	5400	6200	–	–
FLT27-14	1 1/2" and 2" – DN 40 and 50	950	1300	1600	1800	2600	3250	3900	4210	4950



DIMENSIONS (mm)											
SIZE	THREADED							PN 16		CLASS 150	
	A	B	C	D	E	H *	WEIGHT (kg)	F	WEIGHT (kg)	F	WEIGHT (kg)
1 1/2" – DN 40	210	250	80	215	136	3/8"	19	230	21,9	230	20,4
2" – DN 50	210	250	80	215	136	3/8"	18,4	230	23,8	230	21,7

\* 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**

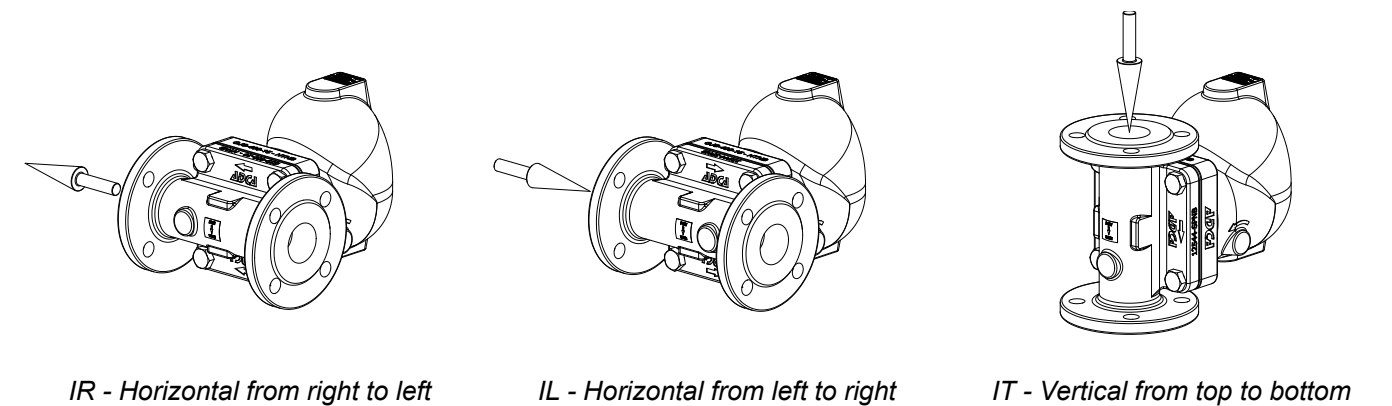


**MATERIALS**

POS. N°	DESIGNATION	MATERIAL
1	Body	GJS-400-15 / 0.7040
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.

**FLOW DIRECTION**



ORDERING CODES FLT27										
Model	A27	2	V	XX	X	X	IR	A	40	
FLT27 – GJS-400-15 / 0.7040 SG iron	A27									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
14 bar		4								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None						X				
With steam lock release assembled						S				
<b>FLL - Float lifting lever</b>										
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			
<b>Flow direction</b>										
Horizontal from right to left (standard)							IR			
Horizontal from left to right							IL			
Vertical from top to bottom							IT			
<b>Pipe connections</b>										
Female threaded ISO 7 Rp								A		
Female threaded NPT								C		
Flanged EN 1092-2 PN 16								L		
Flanged ASME B16.42 Class 150								U		
<b>Size</b>										
11/2" or DN 40									40	
2" or DN 50									50	
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

## FLOAT AND THERMOSTATIC STEAM TRAPS FLT29 (SG iron ; 2" – DN 50)

### DESCRIPTION

The FLT29 is a range 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 and high flow capacities are involved.

### 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:** FLT29-4,5 , 10 and 14 – SG iron.

**SIZES:** 2"; DN 50.

**CONNECTIONS:** Female threaded ISO 7 Rp or NPT.  
Flanged EN 1092-2 PN 16.  
Flanged ASME B16.42 Class 150.

**INSTALLATION:** Horizontal or vertical installation.

**MAX. ΔP:** FLT29-4,5 – 4,5 bar  
FLT29-10 – 10 bar  
FLT29-14 – 14 bar

### CE MARKING – GROUP 2 (PED – European Directive)

PN 16	Category
2" – DN 50	1 (CE marked)

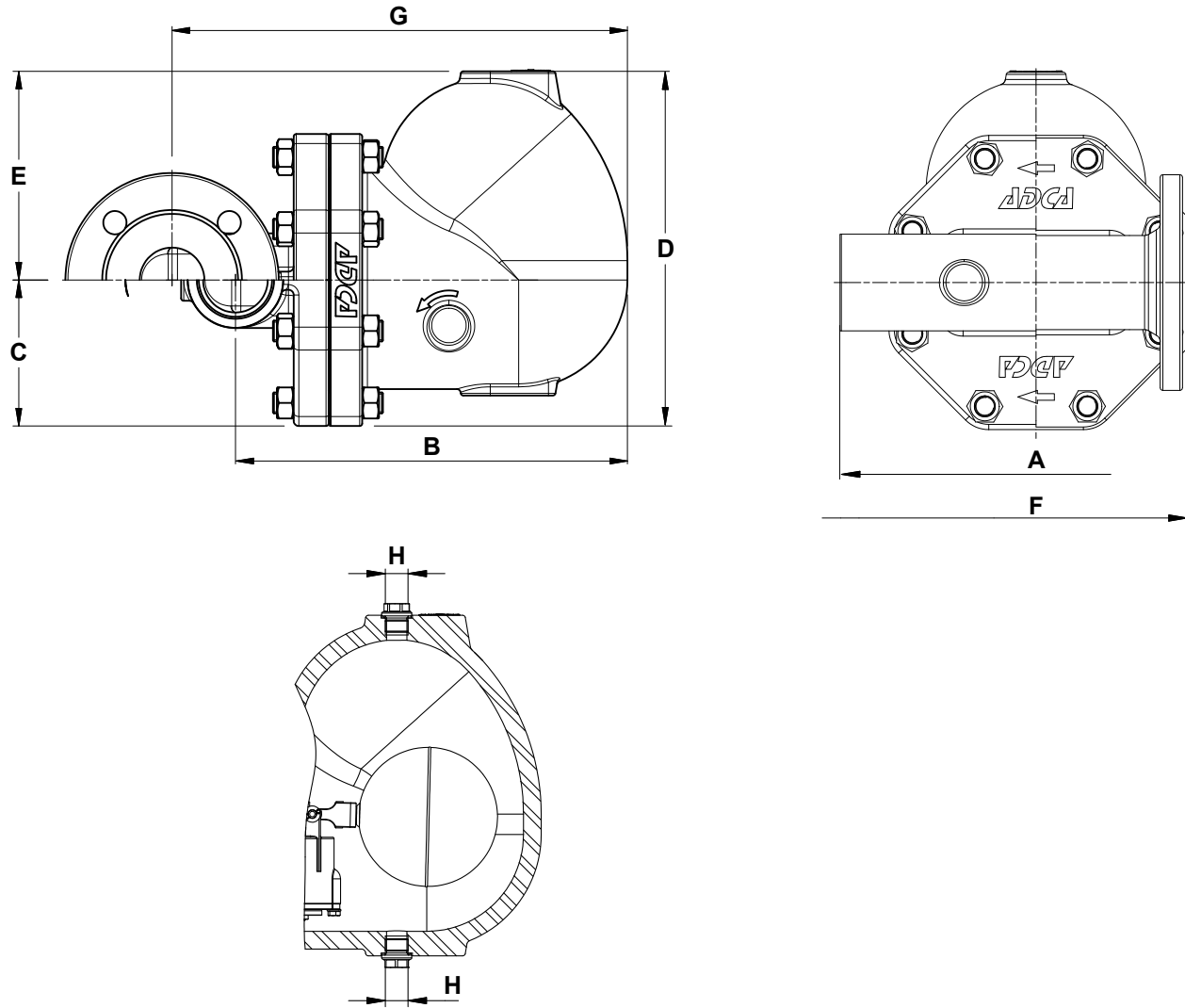


BODY LIMITING CONDITIONS		
FLANGED PN 16 * ALLOWABLE PRESSURE	FLANGED CLASS 150 ** ALLOWABLE PRESSURE	RELATED TEMP.
16 bar	16 bar	100 °C
15,5 bar	14,8 bar	150 °C
14,7 bar	13,9 bar	200 °C
13,9 bar	12,1 bar	250 °C

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.



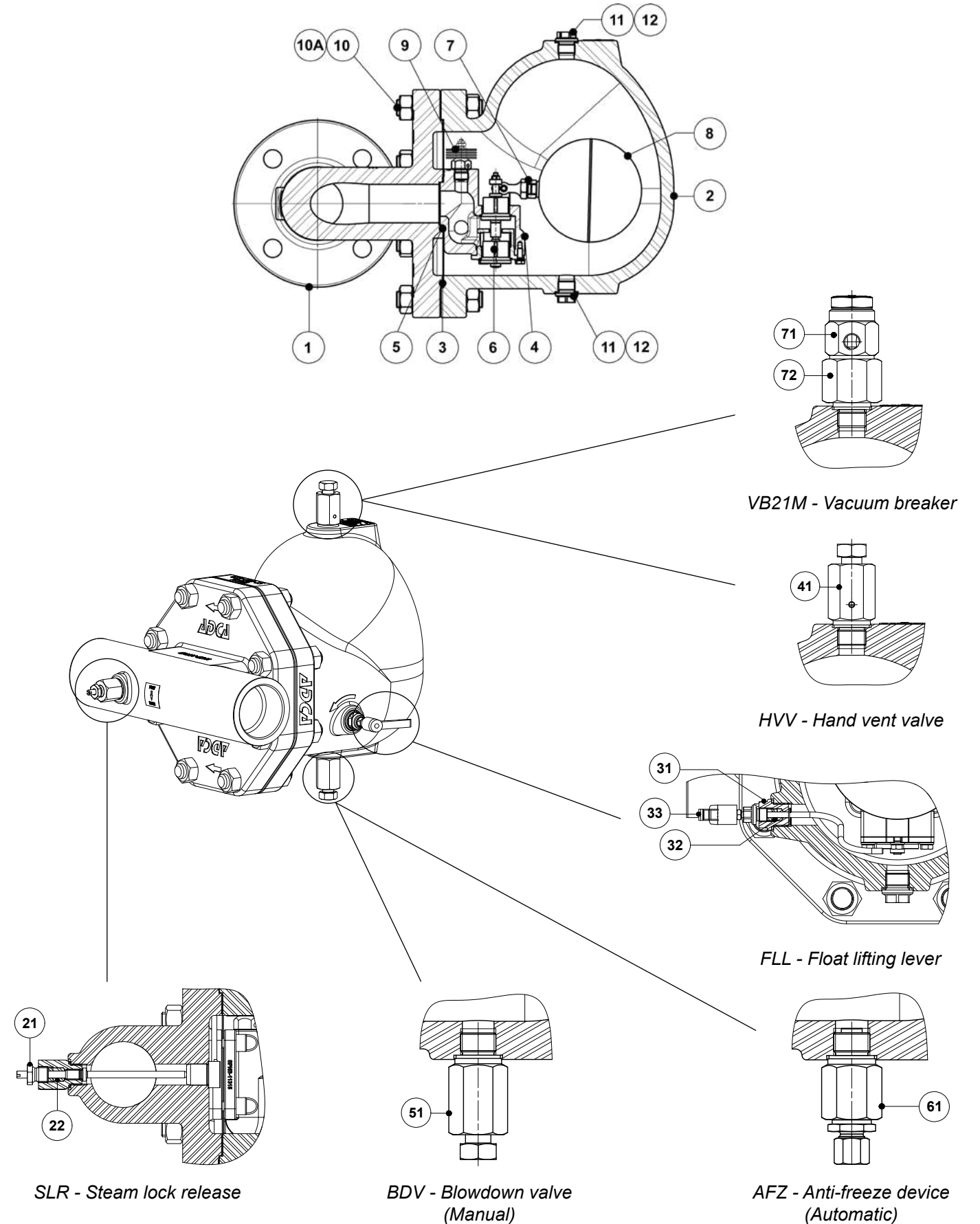
FLOW RATE CAPACITY (kg/h)										
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)								
		0,5	1	1,5	2	4,5	7	10	12	14
FLT29-4,5	2" - DN 50	7550	11000	14000	15500	22500	-	-	-	-
FLT29-10	2" - DN 50	3900	5000	6100	7100	10000	13750	16000	-	-
FLT29-14	2" - DN 50	1900	2700	3100	3600	5000	6900	8100	9000	9800



DIMENSIONS (mm)													
SIZE	THREADED							PN 16			CLASS 150		
	A	B	C	D	E	H*	WGT. (kg)	F	G	WGT. (kg)	F	G	WGT. (kg)
2" - DN 50	300	303	80	215	136	3/8"	35,5	230	352	40,8	230	352	39,9

\* As standard, in versions with EN flanges and 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.

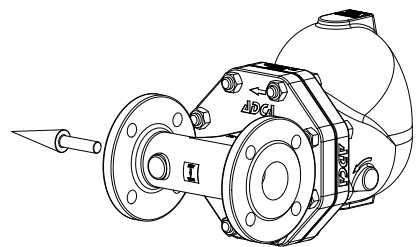
**MATERIALS**



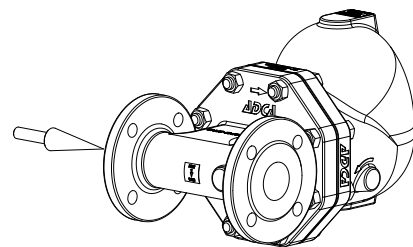
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body (Flanged)	GJS-400-15 / 0.7040
	Body (Threaded)	A216 WCB / 1.0619
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless st. (bimetallic)
10	Studs	Zinc plated steel
10A	Nuts	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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.

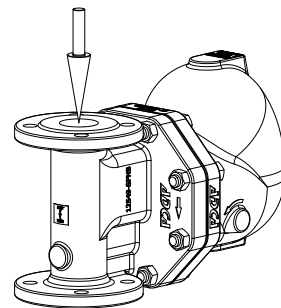
**FLOW DIRECTION**



IR - Horizontal from right to left



IL - Horizontal from left to right



IT - Vertical from top to bottom

ORDERING CODES FLT29										
Model	A29	2	V	XX	X	X	IR	A	50	
FLT29	A29									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
14 bar		4								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None						X				
With steam lock release assembled						S				
<b>FLL - Float lifting lever</b>										
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			
<b>Flow direction</b>										
Horizontal from right to left (standard)							IR			
Horizontal from left to right							IL			
Vertical from top to bottom							IT			
<b>Pipe connections</b>										
Female threaded ISO 7 Rp								A		
Female threaded NPT								C		
Flanged EN 1092-2 PN 16								L		
Flanged ASME B16.42 Class 150								U		
<b>Size</b>										
2" or DN 50									50	
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										
										E

**FLOAT AND THERMOSTATIC STEAM TRAPS  
FLT29TW  
(SG iron ; 3" and 4" – DN 80 and 100)**

**DESCRIPTION**

The FLT29TW is a range of high capacity 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 and high flow capacities are involved.

**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.  
HVV – Hand vent valve.  
BDV – Blowdown valve.  
AFZ – Anti-freeze device.  
VB21M – Vacuum breaker.

**USE:** Saturated and superheated steam.

**AVAILABLE MODELS:** FLT29TW-4,5 , 10 and 14 – SG iron.

**SIZES:** 3" to 4"; DN 80 to DN 100.

**CONNECTIONS:** Flanged EN 1092-1 PN 16.  
Flanged ASME B16.5 Class 150.

**INSTALLATION:** Horizontal or vertical installation.

**MAX. ΔP:** FLT29TW-4,5 – 4,5 bar  
FLT29TW-10 – 10 bar  
FLT29TW-14 – 14 bar



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

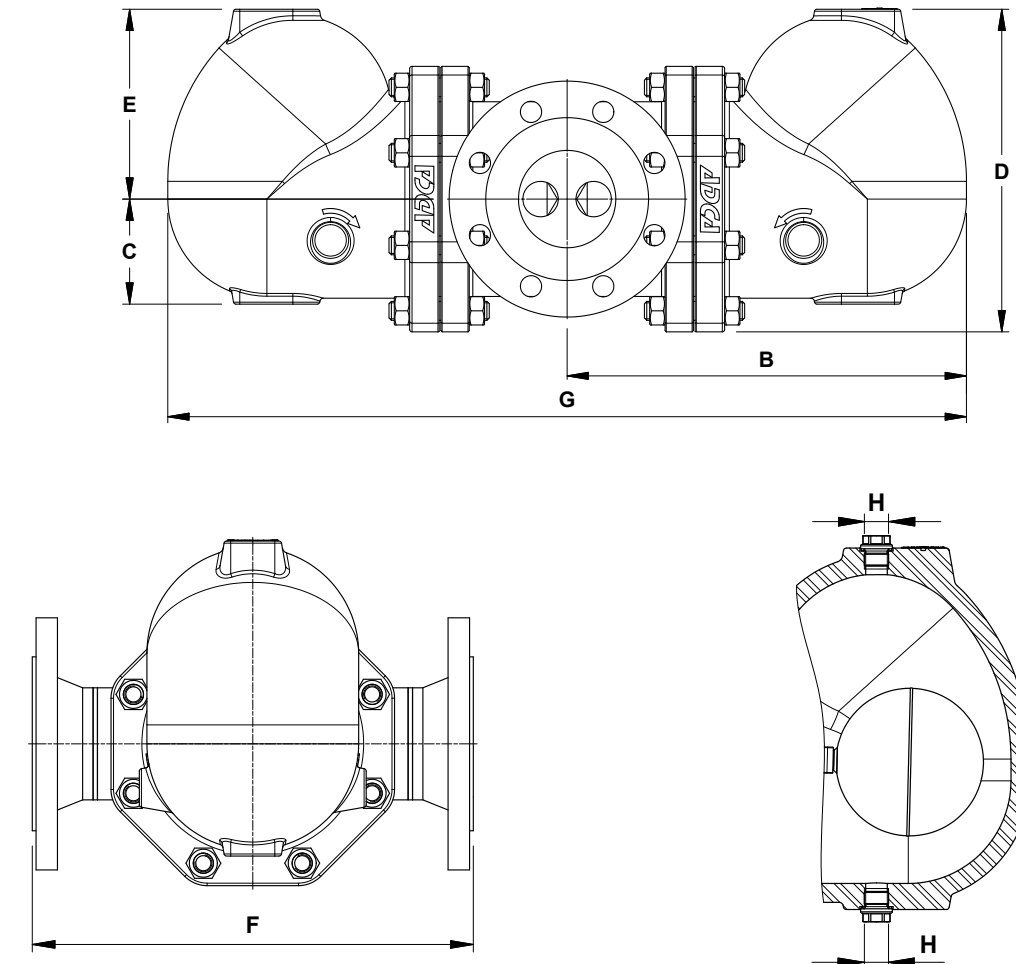
PMO – Maximum operating pressure: 14 bar;  
TMO – Maximum operating temperature: 198 °C.  
\* Acc. to EN 1092-2:2018; \*\* Acc. to ASME B16.42.  
Body limiting conditions PN 16 or below, depending on the type of connection adopted.

**CE MARKING – GROUP 2 (PED – European Directive)**

PN 16	Category
3" to 4" – DN 80 to 100	1 (CE marked)

**FLOW RATE CAPACITY (kg/h)**

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)								
		0,5	1	1,5	2	4,5	7	10	12	14
FLT29TW-4,5	3" to 4" – DN 80 to 100	15100	22000	28000	31000	45000	–	–	–	–
FLT29TW-10	3" to 4" – DN 80 to 100	7800	10000	12200	14200	20000	27500	32000	–	–
FLT29TW-14	3" to 4" – DN 80 to 100	3800	5400	6200	7200	10000	13800	16200	18000	19600



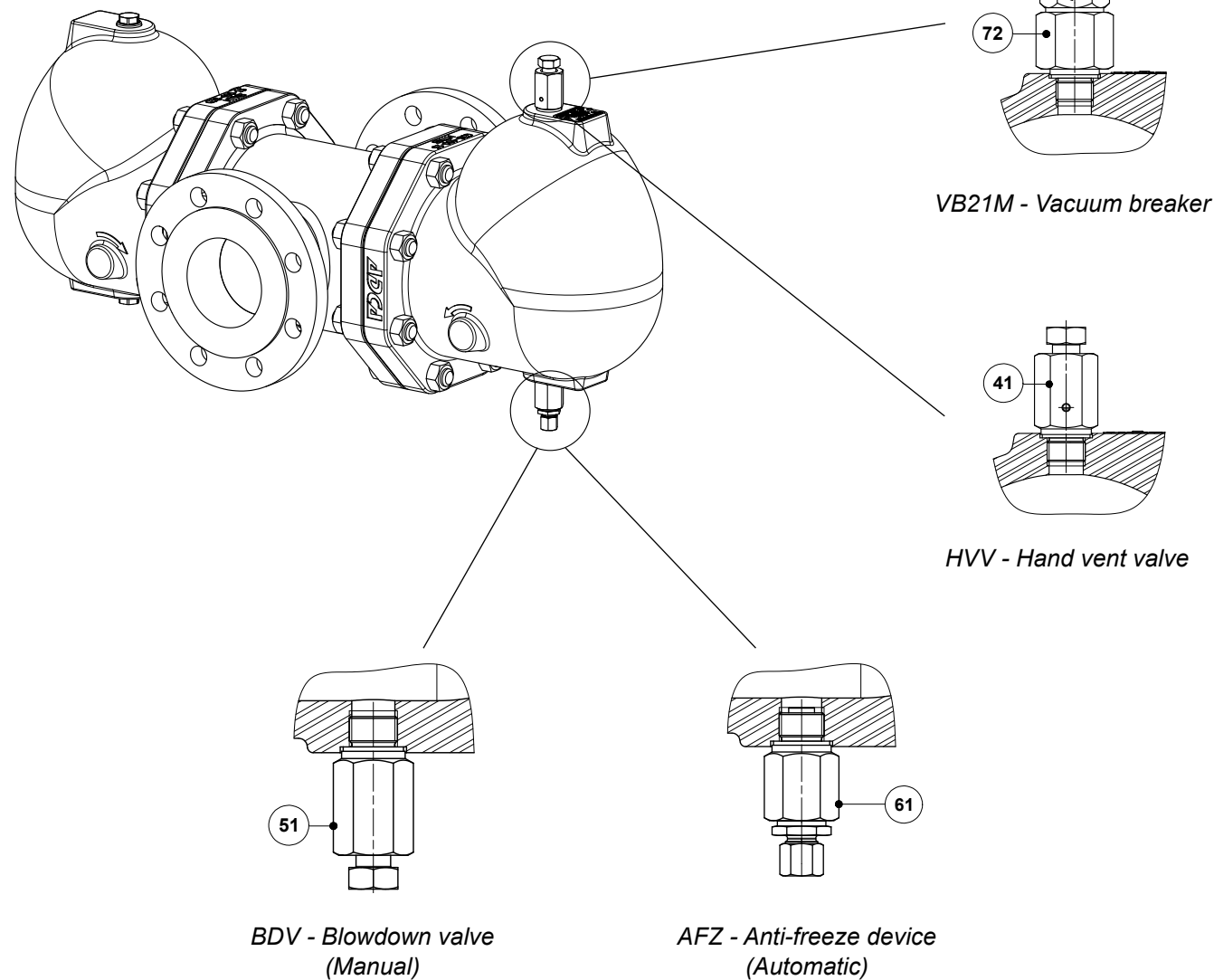
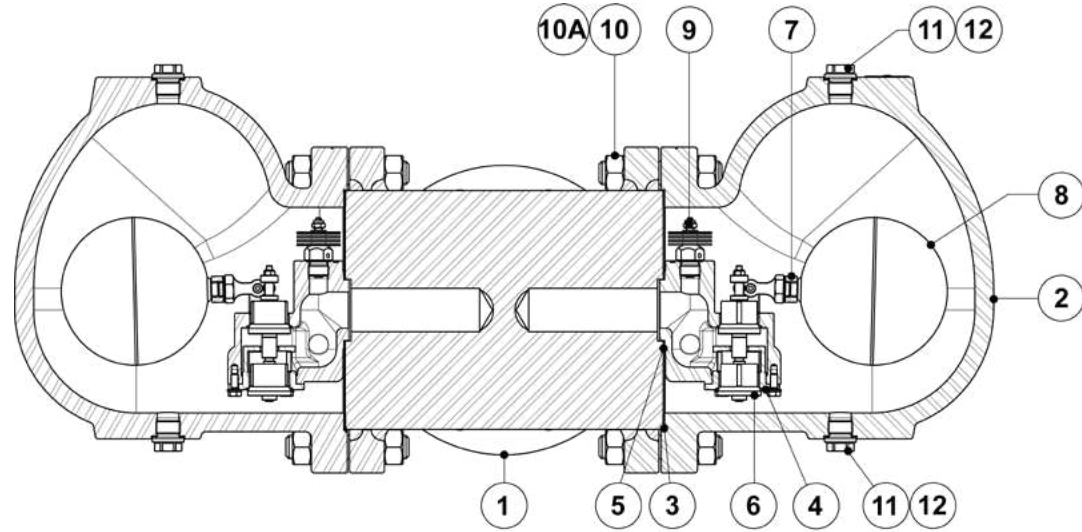
**DIMENSIONS (mm)**

SIZE	PN 16							WEIGHT (kg)	WEIGHT (kg)
	B	C	D	E	F	G	H *		
3" – DN 80	339	113	273	161	350	677	3/8"	86	86,6
4" – DN 100	339	113	273	161	350	677	3/8"	85,1	87,9

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



**MATERIALS**

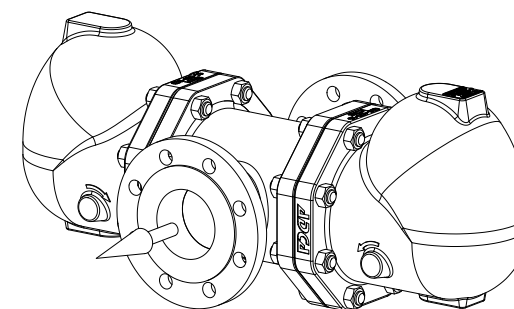


**MATERIALS**

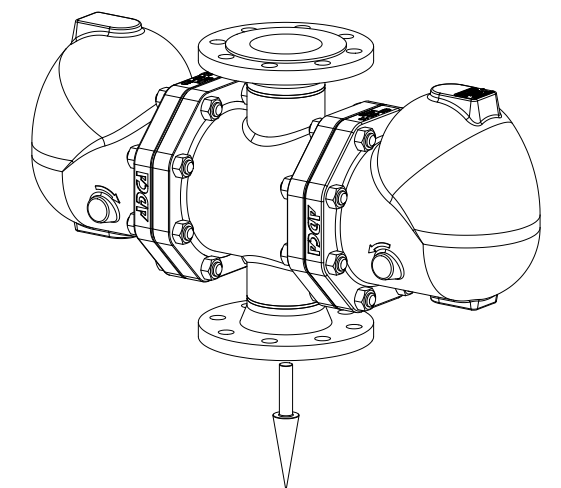
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460; P235GH / 1.0345; S235JR / 1.0038
2	Cover	GJS-400-15 / 0.7040
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Stainless steel / Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless st. (bimetallic)
10	Studs	Zinc plated steel
10A	Nuts	Zinc plated steel
11	Plug	AISI 316L / 1.4404
12	** Gasket	Copper; AISI 304 / 1.4301
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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.

**FLOW DIRECTION**



IH - Horizontal



IT - Vertical from top to bottom

ORDERING CODES FLT29TW									
Model	A29T	2	V	XX	IH	L	80	E	
FLT29TW – GJS-400-15 / 0.7040 SG iron	A29T								
<b>Differential pressure</b>									
4,5 bar		2							
10 bar		3							
14 bar		4							
<b>Automatic air vent</b>									
Bimetallic air vent (standard)			V						
None			X						
<b>Cover connections</b>									
None				XX					
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)					10				
<b>Options</b>									
HVV, BDV, AFZ and VB21M have specific separated ordering codes, please refer to the appropriate documentation.									
<b>Flow direction</b>									
Horizontal					IH				
Vertical from top to bottom					IT				
<b>Pipe connections</b>									
Flanged EN 1092-1 PN 16						L			
Flanged ASME B16.5 Class 150						U			
<b>Size</b>									
3" or DN 80							80		
4" or DN 100							100		
<b>Special valves / Extras</b>									
Full description or additional codes have to be added in case of a non-standard combination									E

**FLOAT AND THERMOSTATIC STEAM TRAPS  
FLT30  
(Carbon steel 1/2" – 1"; DN 15 – 25)**

**DESCRIPTION**

The FLT30 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.  
VB21M – Vacuum breaker.

**USE:** Saturated and superheated steam.

**AVAILABLE MODELS:** FLT30-4,5 , 10, 14 and 21 – 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 16.11.

**INSTALLATION:** Inline horizontal or vertical installation.  
Angled horizontal or vertical installation.  
See IMI – Installation and maintenance instructions.

**MAX. ΔP:** FLT30-4,5 – 4,5 bar  
FLT30-10 – 10 bar  
FLT30-14 – 14 bar  
FLT30-21 – 21 bar

**CE MARKING – GROUP 2 (PED – European Directive)**

PN 40	Category
1/2" to 1" – DN 15 to 25	SEP

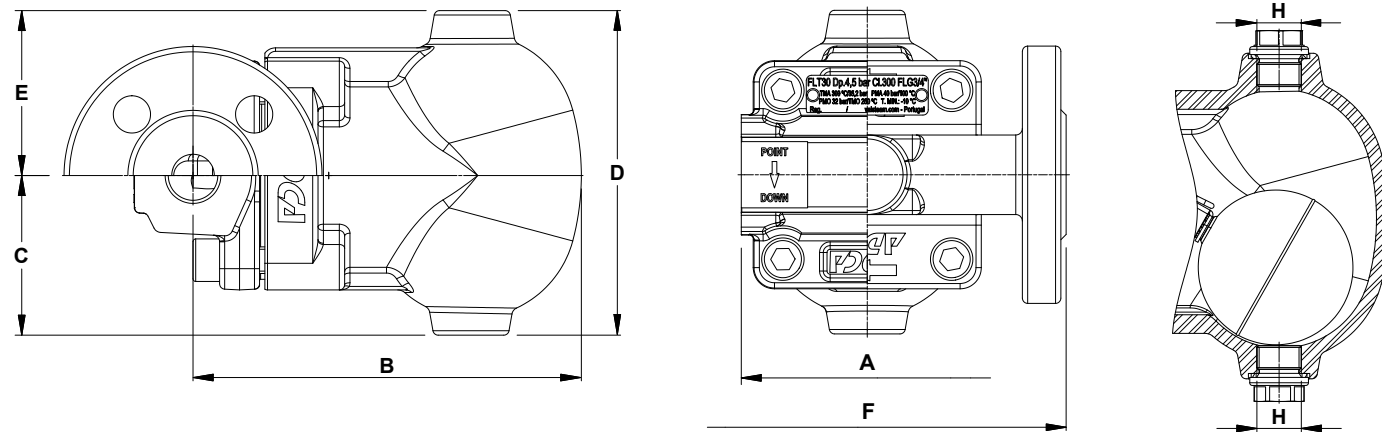


**BODY LIMITING CONDITIONS**

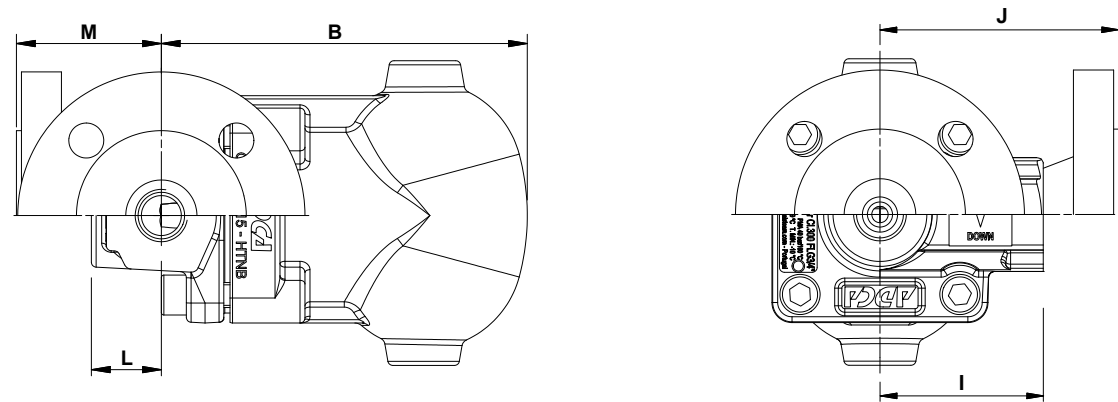
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
37,1 bar	17,7 bar	100 °C
33,3 bar	14 bar	200 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

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	SIZE	DIFFERENTIAL PRESSURE (bar)										
		0,5	1	1,5	2	4,5	7	10	12	14	16	21
FLT30-4,5	1/2" to 1" – DN 15 to 25	220	280	320	360	495	–	–	–	–	–	–
FLT30-10	1/2" to 1" – DN 15 to 25	200	252	290	335	440	505	595	–	–	–	–
FLT30-14	1/2" to 1" – DN 15 to 25	145	198	225	252	350	415	480	535	580	–	–
FLT30-21	1/2" to 1" – DN 15 to 25	70	95	120	150	205	250	320	380	390	405	435



Inline design

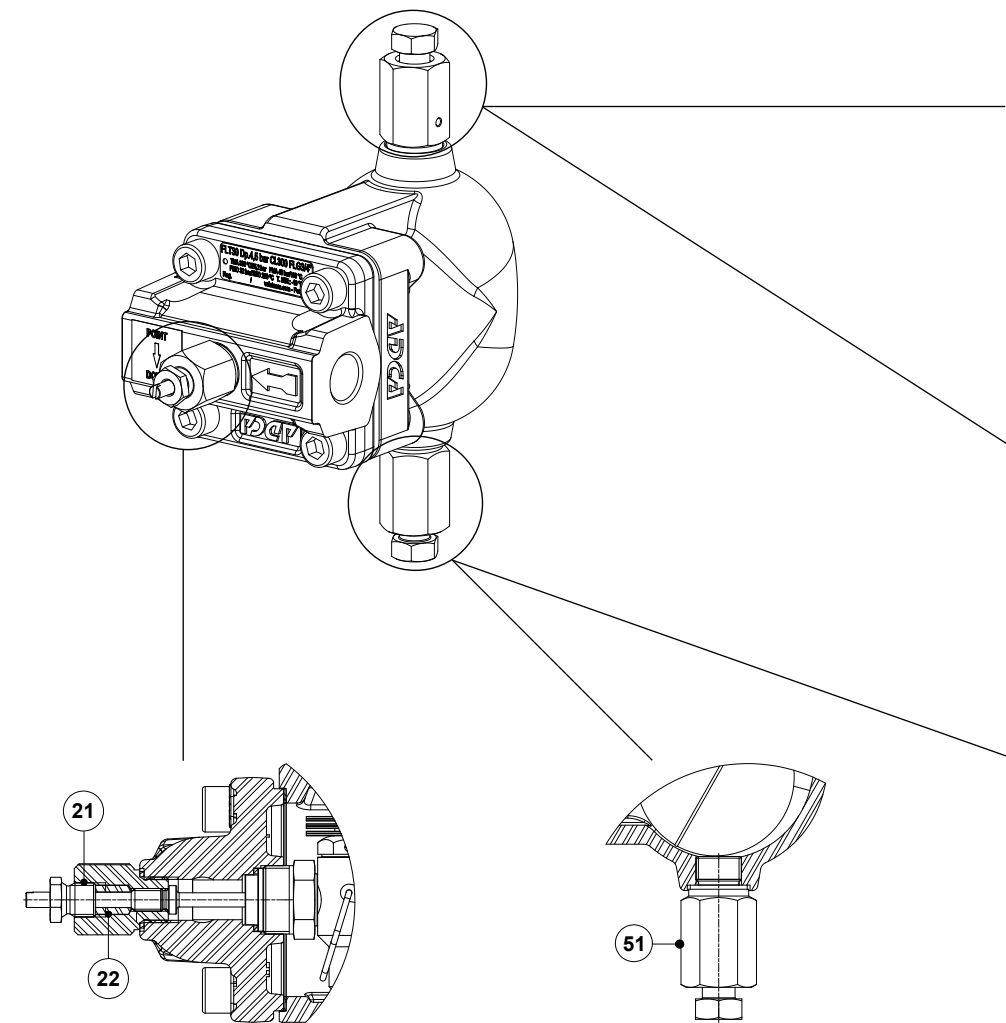
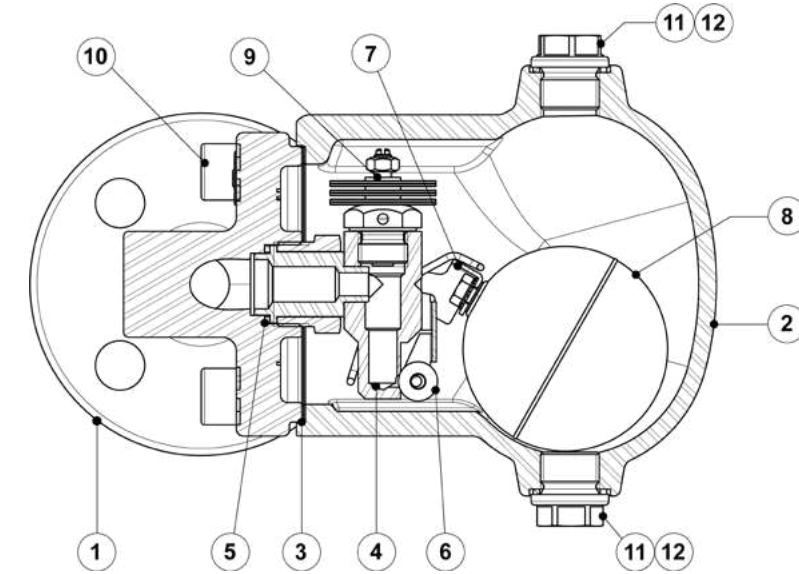


Angled design

DIMENSIONS (mm) – INLINE DESIGN													
SIZE	THREADED / SW						PN 40		CLASS 150		CLASS 300		
	A	B	C	D	E	H *	WEIGHT (kg)	F	WEIGHT (kg)	F	WEIGHT (kg)	F	WEIGHT (kg)
1/2" – DN 15	95	146	60	122	62	3/8"	3,8	150	5,1	150	4,8	150	5
3/4" – DN 20	95	146	60	122	62	3/8"	3,8	150	5,7	150	5	150	6
1" – DN 25	95	146	60	122	62	3/8"	3,6	160	6,4	160	6	160	6,8

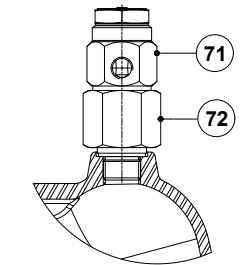
DIMENSIONS (mm) – ANGLED DESIGN																	
SIZE	THREADED / SW							PN 40			CLASS 150			CLASS 300			
	B	C	D	E	H *	I	L	WGT. (kg)	J	M	WGT. (kg)	J	M	WGT. (kg)	J	M	WGT. (kg)
1/2" – DN 15	146	60	122	62	3/8"	65	28	3,8	95	58	5,3	100	63	4,8	105	68	5,4
3/4" – DN 20	146	60	122	62	3/8"	65	28	3,8	95	58	5,9	100	63	5,2	110	73	6,4
1" – DN 25	146	60	122	62	3/8"	65	28	3,8	95	58	6,3	100	63	5,7	110	73	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, female NPT threads or SW, these connections are female threaded NPT.

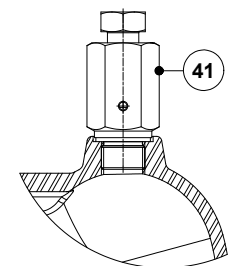


SLR - Steam lock release

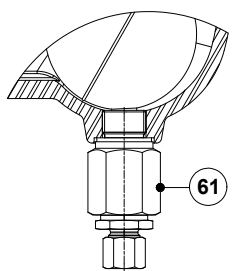
BDV - Blowdown valve (Manual)



VB21M - Vacuum breaker



HVV - Hand vent valve



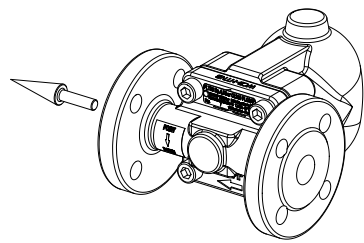
AFZ - Anti-freeze device (Automatic)



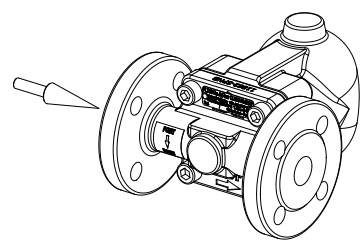
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body (inline flanged)	A216 WCB / 1.0619
	Body (inline threaded)	P250GH / 1.0460
	Body (angled)	P250GH / 1.0460
2	Cover	A216 WCB / 1.0619
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401
7	* Lever	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
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.

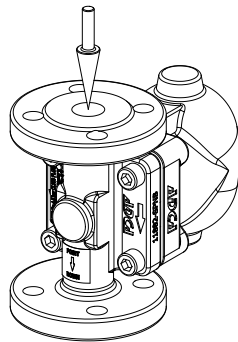
**FLOW DIRECTION**



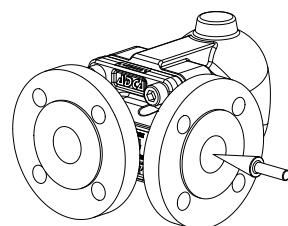
IR - Horizontal from right to left



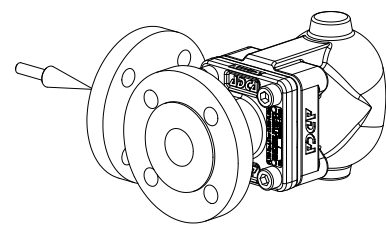
IL - Horizontal from left to right



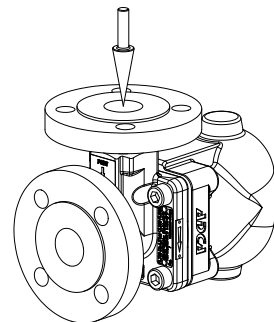
IT - Vertical from top to bottom



AR - Angled from right to front



AL - Angled from left to front



AT - Angled from top to front

ORDERING CODES FLT30										
Model	A30	2	V	XX	X	IR	A	15		
FLT30 – carbon steel	A30									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
14 bar		4								
21 bar		5								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)					10					
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None							X			
With steam lock release assembled							S			
<b>Flow direction</b>										
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	
<b>Pipe connections</b>										
Female threaded ISO 7 Rp										A
Female threaded NPT										C
Socket weld (SW) ASME 16.11										H
Flanged EN 1092-1 PN 40										N
Flanged ASME B16.5 Class 150										U
Flanged ASME B16.5 Class 300										V
<b>Size</b>										
1/2" or DN 15										15
3/4" or DN 20										20
1" or DN 25										25
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

**FLOAT AND THERMOSTATIC STEAM TRAPS**  
**FLT31**  
**(Carbon steel 1/2" – 1"; DN 15 – 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.

**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:** 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 16.11.

**INSTALLATION:** Inline horizontal or vertical installation.  
Angled horizontal or vertical installation.  
See IMI – Installation and maintenance instructions.

**MAX. ΔP:** FLT31-4,5 – 4,5 bar  
FLT31-10 – 10 bar  
FLT31-14 – 14 bar  
FLT31-21 – 21 bar  
FLT31-32 – 32 bar



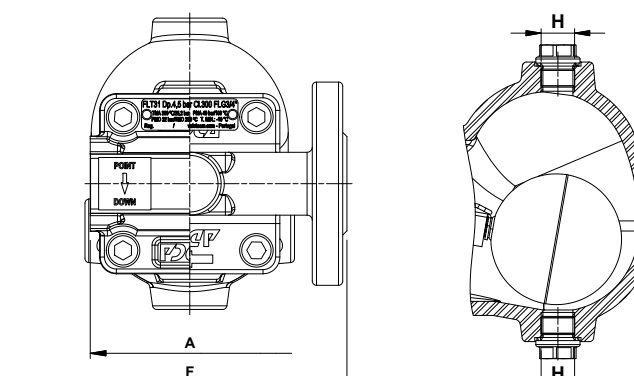
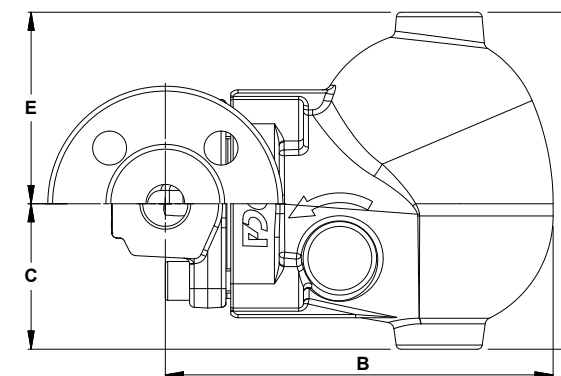
BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
37,1 bar	17,7 bar	100 °C
33,3 bar	14 bar	200 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

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.

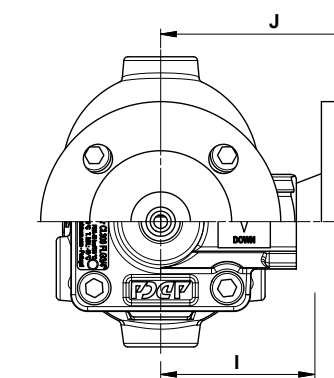
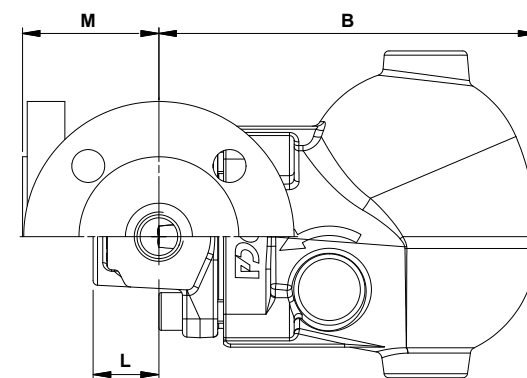
CE MARKING – GROUP 2 (PED – European Directive)	
PN 40	Category
1/2" to 1" – DN 15 to 25	SEP

**FLOW RATE CAPACITY (kg/h)**

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		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



Angled design

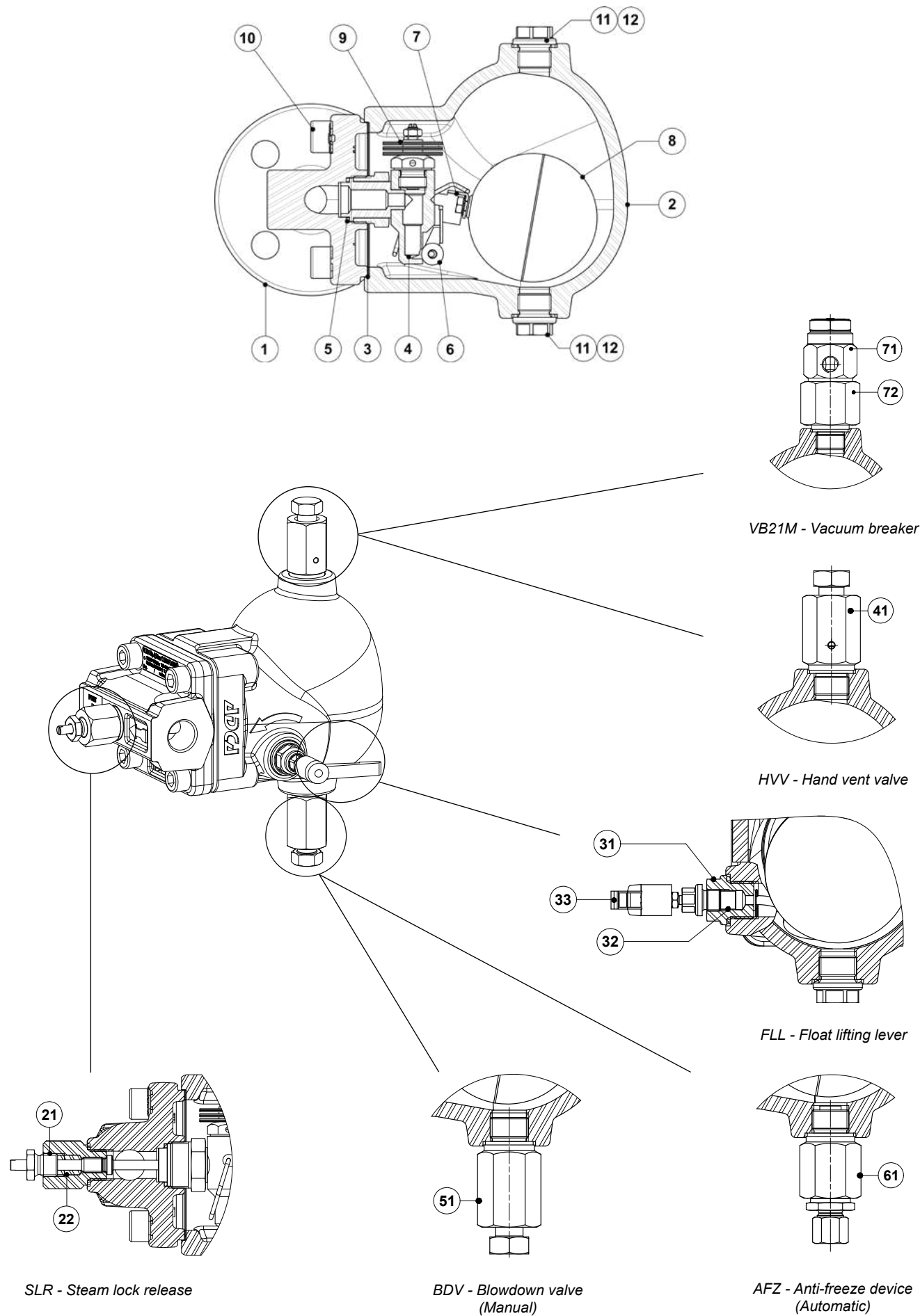
**DIMENSIONS (mm) – INLINE DESIGN**

SIZE	THREADED / SW							PN 40		CLASS 150		CLASS 300	
	A	B	C	D	E	H *	WEIGHT (kg)	F	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	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

**DIMENSIONS (mm) – ANGLED DESIGN**

SIZE	THREADED / SW							PN 40		CLASS 150		CLASS 300		
	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	95	58	6,5
3/4" – DN 20	160	60	139	79	3/8"	65	28	4,9	95	58	7	95	58	7,5
1" – DN 25	160	60	139	79	3/8"	65	28	4,9	95	58	7,5	95	58	8

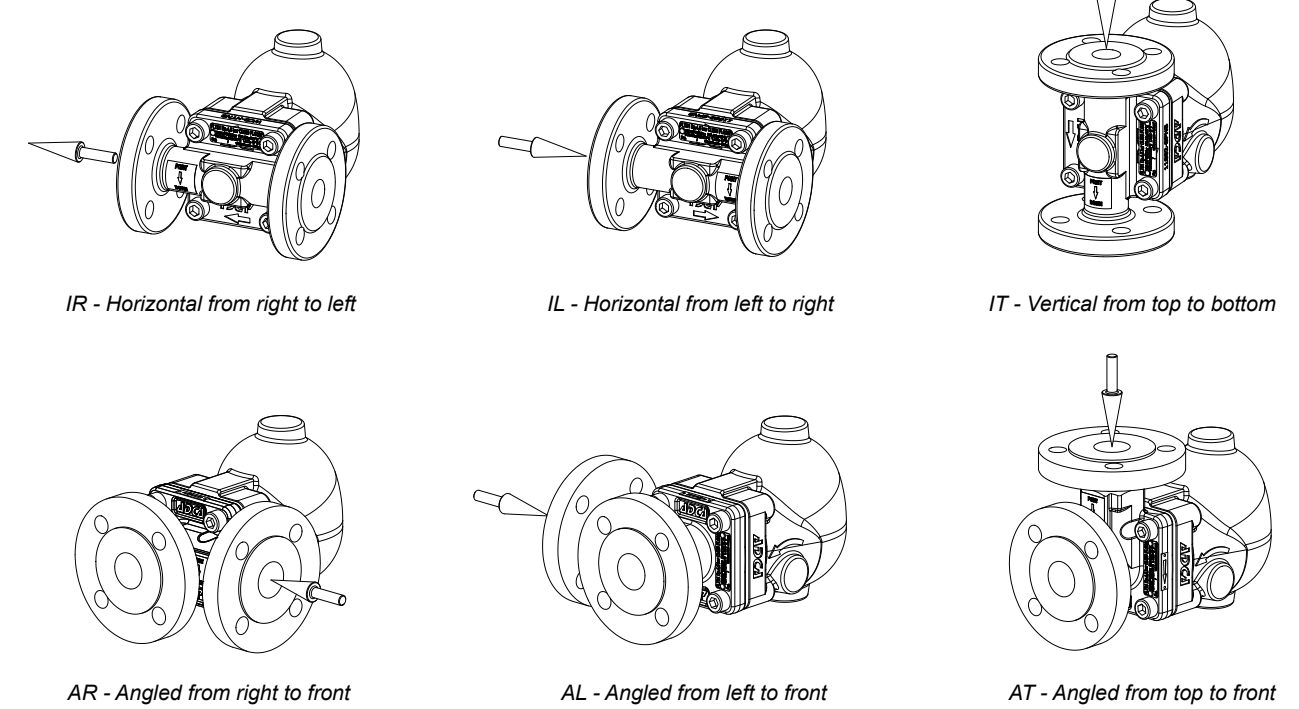
\* As standard, in versions with EN flanges or female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.



MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body (inline flanged)	A216 WCB / 1.0619
	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**





ORDERING CODES FLT31										
Model	A31	2	V	XX	X	X	IR	A	15	
FLT31 – carbon steel	A31									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
14 bar		4								
21 bar		5								
32 bar		7								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)					10					
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None						X				
With steam lock release assembled						S				
<b>FLL - Float lifting lever</b>										
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		
<b>Flow direction</b>										
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	
<b>Pipe connections</b>										
Female threaded ISO 7 Rp									A	
Female threaded NPT									C	
Socket weld (SW) ASME 16.11									H	
Flanged EN 1092-1 PN 40									N	
Flanged ASME B16.5 Class 150									U	
Flanged ASME B16.5 Class 300									V	
<b>Size</b>										
1/2" or DN 15										15
3/4" or DN 20										20
1" or DN 25										25
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

## FLOAT AND THERMOSTATIC STEAM TRAPS FLT35 (Carbon steel 1"; DN 25)

### DESCRIPTION

The FLT35 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:** FLT35-4,5 , 10, 14, 21 and 32 – carbon steel.

**SIZES:** 1"; 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 16.11.

**INSTALLATION:** Inline horizontal or vertical installation.  
Angled horizontal or vertical installation.  
See IMI – Installation and maintenance instructions.

**MAX. ΔP:**

- FLT35-4,5 – 4,5 bar
- FLT35-10 – 10 bar
- FLT35-14 – 14 bar
- FLT35-21 – 21 bar
- FLT35-32 – 32 bar

### CE MARKING – GROUP 2 (PED – European Directive)

CLASS 150	PN 40	Category
1" – DN 25	–	SEP
–	1" – DN 25	1 (CE marked)

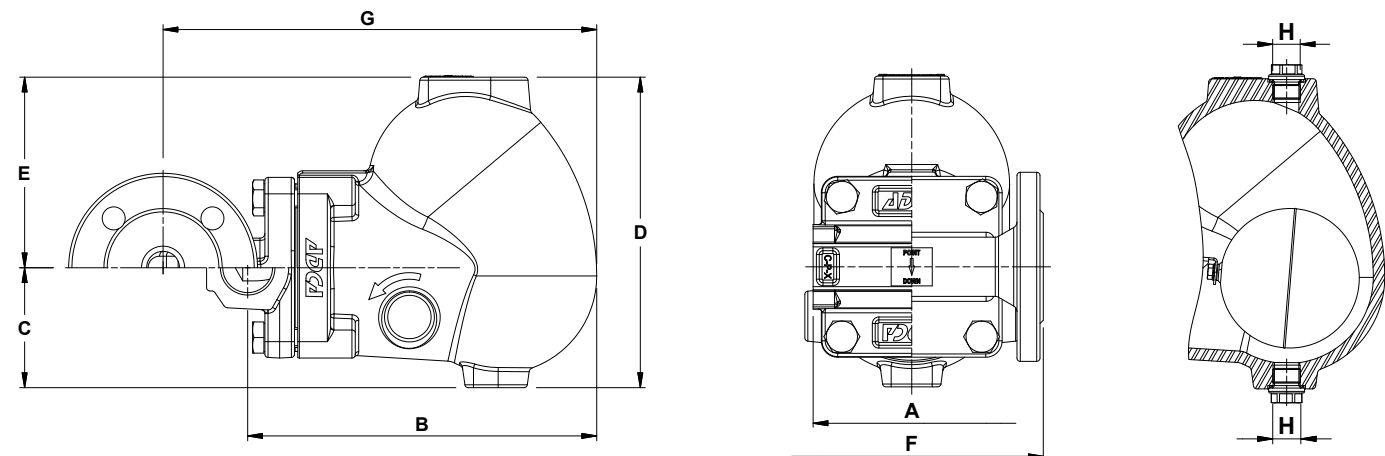


### BODY LIMITING CONDITIONS

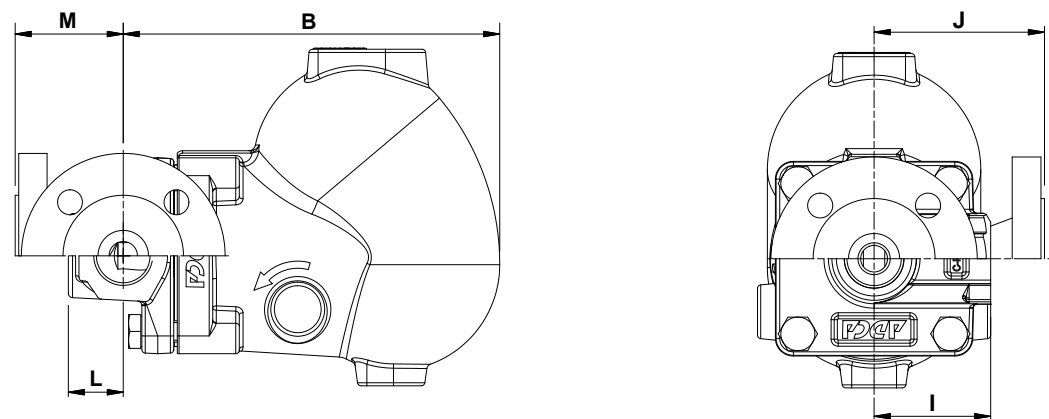
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
37,1 bar	17,7 bar	100 °C
33,3 bar	14 bar	200 °C
30,4 bar	12,1 bar	250 °C
27,6 bar	10,2 bar	300 °C

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	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT35-4,5	1" – DN 25	900	1250	1490	1630	2490	–	–	–	–	–	–	–	–
FLT35-10	1" – DN 25	445	610	705	850	1285	1670	1820	–	–	–	–	–	–
FLT35-14	1" – DN 25	335	445	515	600	885	1150	1350	1500	1610	–	–	–	–
FLT35-21	1" – DN 25	255	335	380	410	555	680	745	790	815	895	920	–	–
FLT35-32	1" – DN 25	230	275	315	345	440	500	570	600	610	650	705	750	810



Inline design



Angled design

**DIMENSIONS (mm) – INLINE DESIGN**

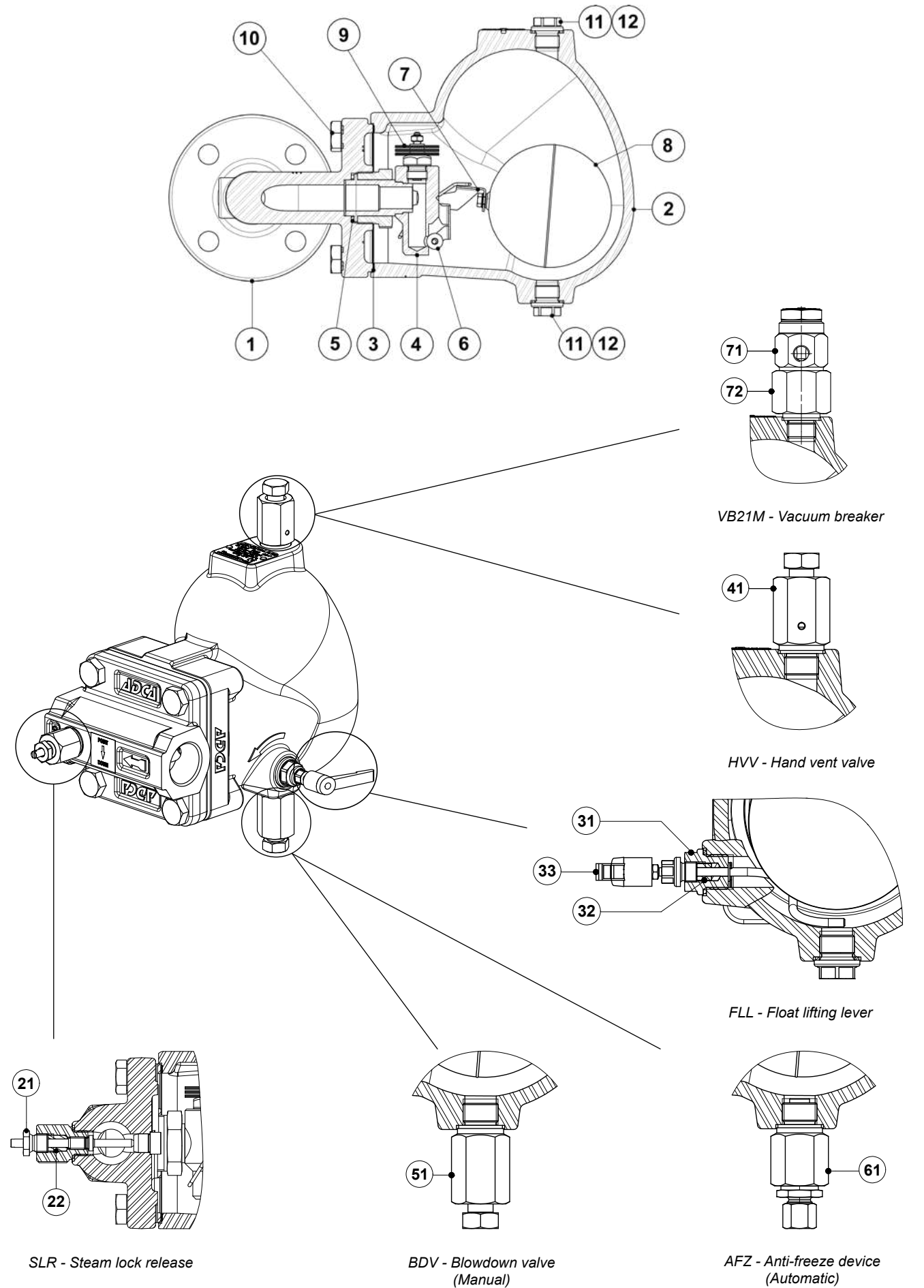
SIZE	THREADED / SW							PN 40			CLASS 150			CLASS 300		
	A	B	C	D	E	H*	WGT. (kg)	F	G	WGT. (kg)	F	G	WGT. (kg)	F	G	WGT. (kg)
1" – DN 25	120	212	73	189	116	3/8"	8,9	160	264	12	160	264	11,9	160	264	12,6

\* 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.

**DIMENSIONS (mm) – ANGLED DESIGN**

SIZE	THREADED / SW							PN 40			CLASS 150			CLASS 300			
	B	C	D	E	H*	I	L	WGT. (kg)	J	M	WGT. (kg)	J	M	WGT. (kg)	J	M	WGT. (kg)
1" – DN 25	212	73	189	116	3/8"	65	31	8,4	95	61	11	100	66	10,5	110	76	11,7

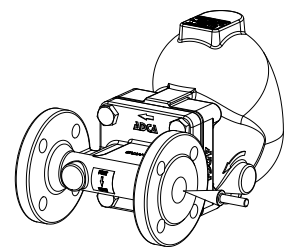
\* As standard, in versions with EN flanges or female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.



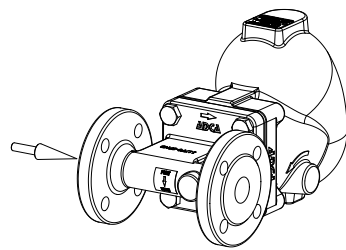
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body (inline flanged)	A216 WCB / 1.0619
	Body (inline threaded)	P250GH / 1.0460
	Body (angled)	P250GH / 1.0460
2	Cover	A216 WCB / 1.0619
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401
7	* Lever	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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.

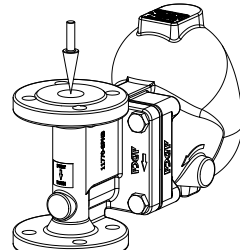
**FLOW DIRECTION**



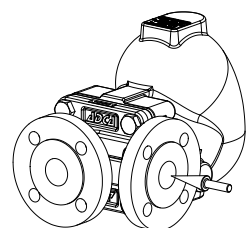
IR - Horizontal from right to left



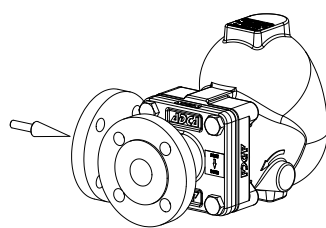
IL - Horizontal from left to right



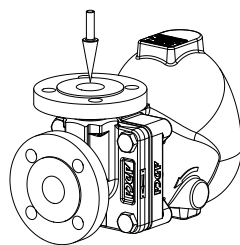
IT - Vertical from top to bottom



AR - Angled from right to front



AL - Angled from left to front



AT - Angled from top to front

ORDERING CODES FLT35										
Model	A35	2	V	XX	X	X	IR	A	25	
FLT35 – Carbon steel	A35									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
14 bar		4								
21 bar		5								
32 bar		7								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)					10					
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None						X				
With steam lock release assembled (not available for angled design versions)							S			
<b>FLL - Float lifting lever</b>										
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	
<b>Flow direction</b>										
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
<b>Pipe connections</b>										
Female threaded ISO 7 Rp										A
Female threaded NPT										C
Socket weld (SW) ASME 16.11										H
Flanged EN 1092-1 PN 40										N
Flanged ASME B16.5 Class 150										U
Flanged ASME B16.5 Class 300										V
<b>Size</b>										
1" or DN 25										25
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E



## FLOAT AND THERMOSTATIC STEAM TRAPS FLT37 (Carbon steel 11/2" – 2"; DN 40 – 50)

### DESCRIPTION

The FLT37 is a range 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 all applications where continuous discharge is essential and high flow capacities are involved.

### 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:** FLT37-4,5 , 10 , 21 and 32 – carbon steel.

**SIZES:** 11/2" to 2"; DN 40 to DN 50.

**CONNECTIONS:** Female threaded ISO 7 Rp or NPT. Flanged EN 1092-1 PN 40. Flanged ASME B16.5 Class 150 or 300. Socket weld ASME B16.11.

**INSTALLATION:** Horizontal or vertical installation.

**MAX. ΔP:**

- FLT37-4,5 – 4,5 bar
- FLT37-10 – 10 bar
- FLT37-21 – 21 bar
- FLT37-32 – 32 bar



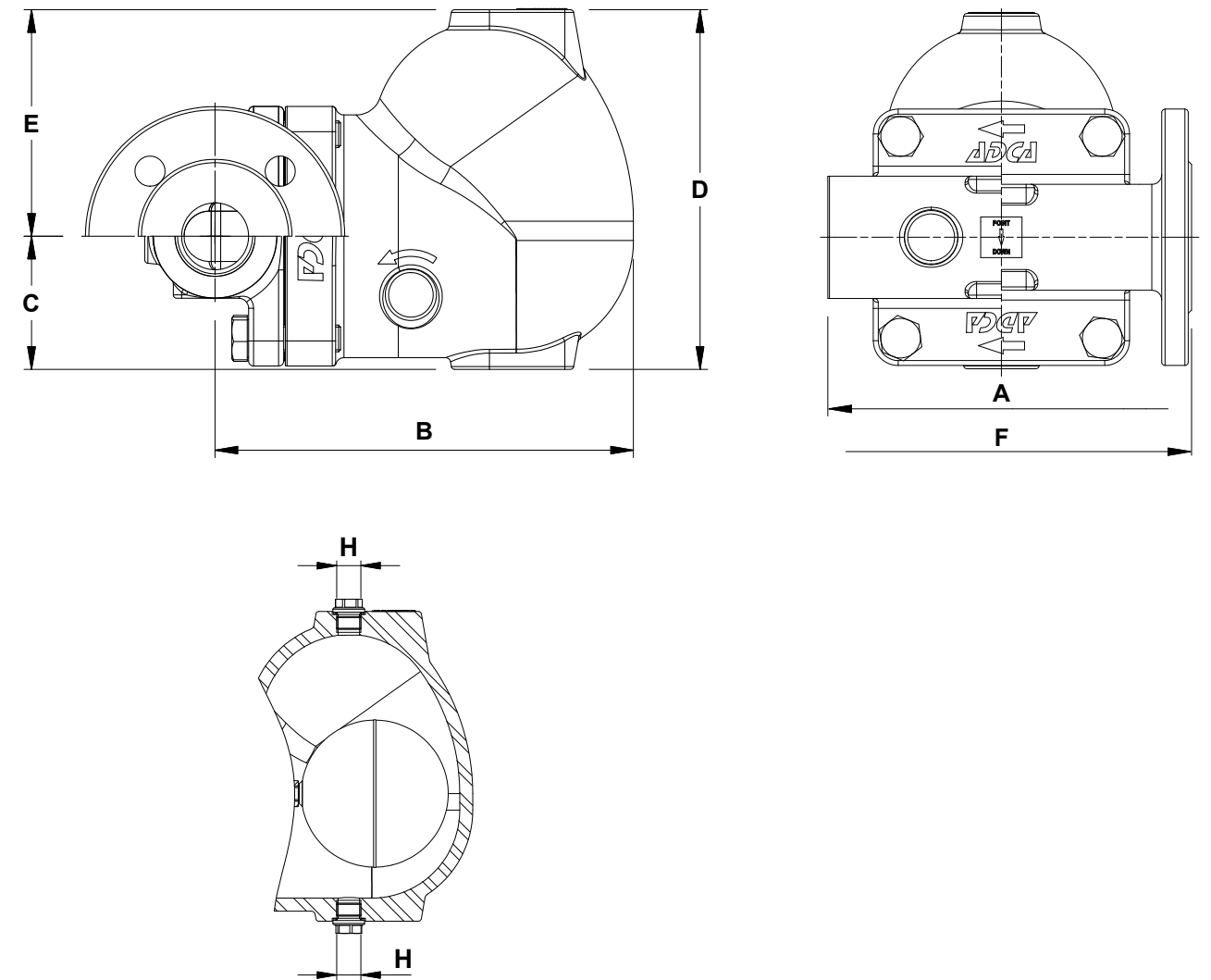
CE MARKING – GROUP 2 (PED – European Directive)		
CLASS 150	PN 40	Category
11/2" to 2" – DN 40 to 50	–	SEP
–	11/2" to 2" – DN 40 to 50	1 (CE marked)

BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
40 bar	17,7 bar	100 °C
40 bar	14 bar	200 °C
39 bar	12,1 bar	250 °C
35,2 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.

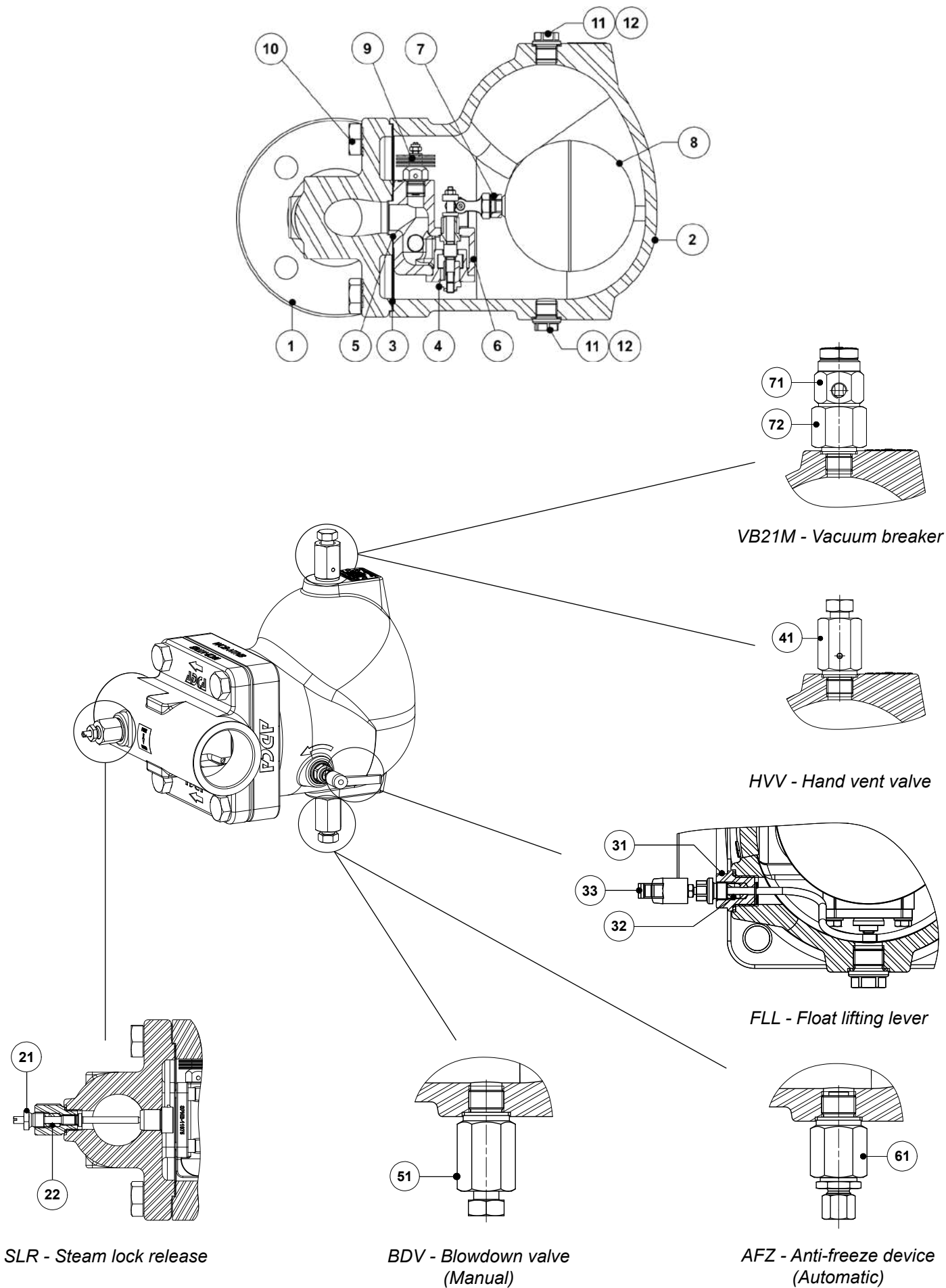
### FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT37-4,5	11/2" to 2" – DN 40 to 50	2400	3400	3900	4500	7300	–	–	–	–	–	–	–	–
FLT37-10	11/2" to 2" – DN 40 to 50	1500	2000	2600	3000	4000	5400	6200	–	–	–	–	–	–
FLT37-21	11/2" to 2" – DN 40 to 50	950	1300	1600	1800	2600	3250	3900	4210	4950	5000	5600	–	–
FLT37-32	11/2" to 2" – DN 40 to 50	950	1300	1600	1800	2600	3250	3900	4210	4950	5000	5600	6000	6500



DIMENSIONS (mm)														
SIZE	THREADED / SW							PN 40		CLASS 150		CLASS 300		
	A	B	C	D	E	H *	WGT. (kg)	F	WGT. (kg)	F	WGT. (kg)	F	WGT. (kg)	
11/2" – DN 40	210	250	80	215	136	3/8"	19	230	21,9	230	20,4	230	21,7	
2" – DN 50	210	250	80	215	136	3/8"	18,4	230	23,8	230	21,7	230	23,4	

\* As standard, in versions with EN flanges and 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.



SLR - Steam lock release

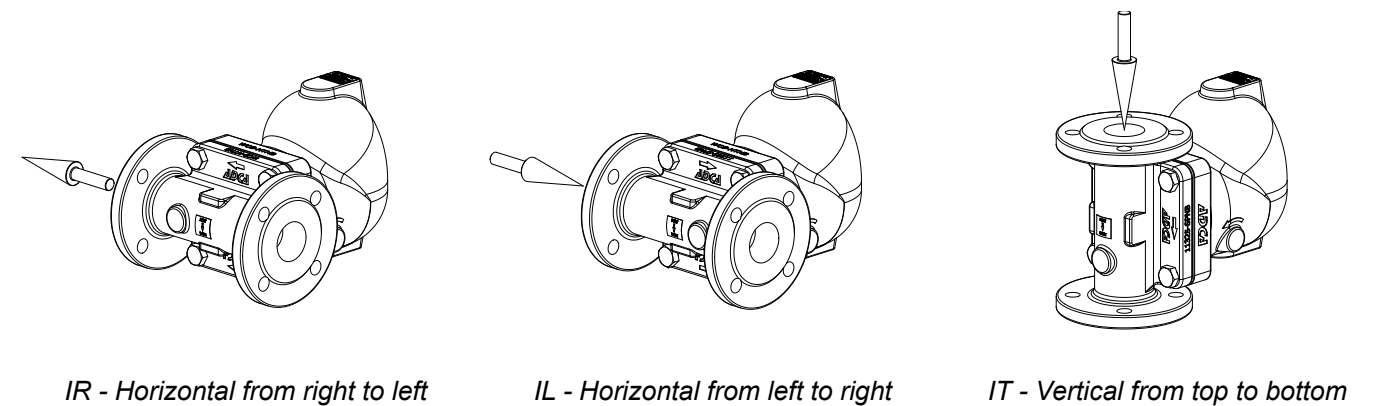
BDV - Blowdown valve  
(Manual)

AFZ - Anti-freeze device  
(Automatic)

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	A216 WCB / 1.0619
2	Cover	A216 WCB / 1.0619
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.

**FLOW DIRECTION**



ORDERING CODES FLT37										
Model	A37	2	V	XX	X	X	IR	A	40	
FLT37 – A216 WCB / 1.0619 carbon steel	A37									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
21 bar		4								
32 bar		5								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None						XX				
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)						10				
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None							X			
With steam lock release assembled							S			
<b>FLL - Float lifting lever</b>										
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		
<b>Flow direction</b>										
Horizontal from right to left (standard)							IR			
Horizontal from left to right							IL			
Vertical from top to bottom							IT			
<b>Pipe connections</b>										
Female threaded ISO 7 Rp								A		
Female threaded NPT								C		
Socket weld ASME B16.11								H		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
<b>Size</b>										
11/2" or DN 40									40	
2" or DN 50									50	
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

## FLOAT AND THERMOSTATIC STEAM TRAPS FLT39 (Carbon steel 2"; DN 50)

### DESCRIPTION

The FLT39 is a range 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 and high flow capacities are involved.

### 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:** FLT39-4,5 , 10 , 21 and 32 – carbon steel.

**SIZES:** 2"; DN 50.

**CONNECTIONS:** Female threaded ISO 7 Rp or NPT.  
Flanged EN 1092-1 PN 40.  
Flanged ASME B16.5 Class 150 or 300.  
Socket weld ASME B16.11.

**INSTALLATION:** Horizontal or vertical installation.

**MAX. ΔP:** FLT39-4,5 – 4,5 bar  
FLT39-10 – 10 bar  
FLT39-21 – 21 bar  
FLT39-32 – 32 bar

### CE MARKING – GROUP 2 (PED – European Directive)

PN 40	Category
2" – DN 50	1 (CE marked)

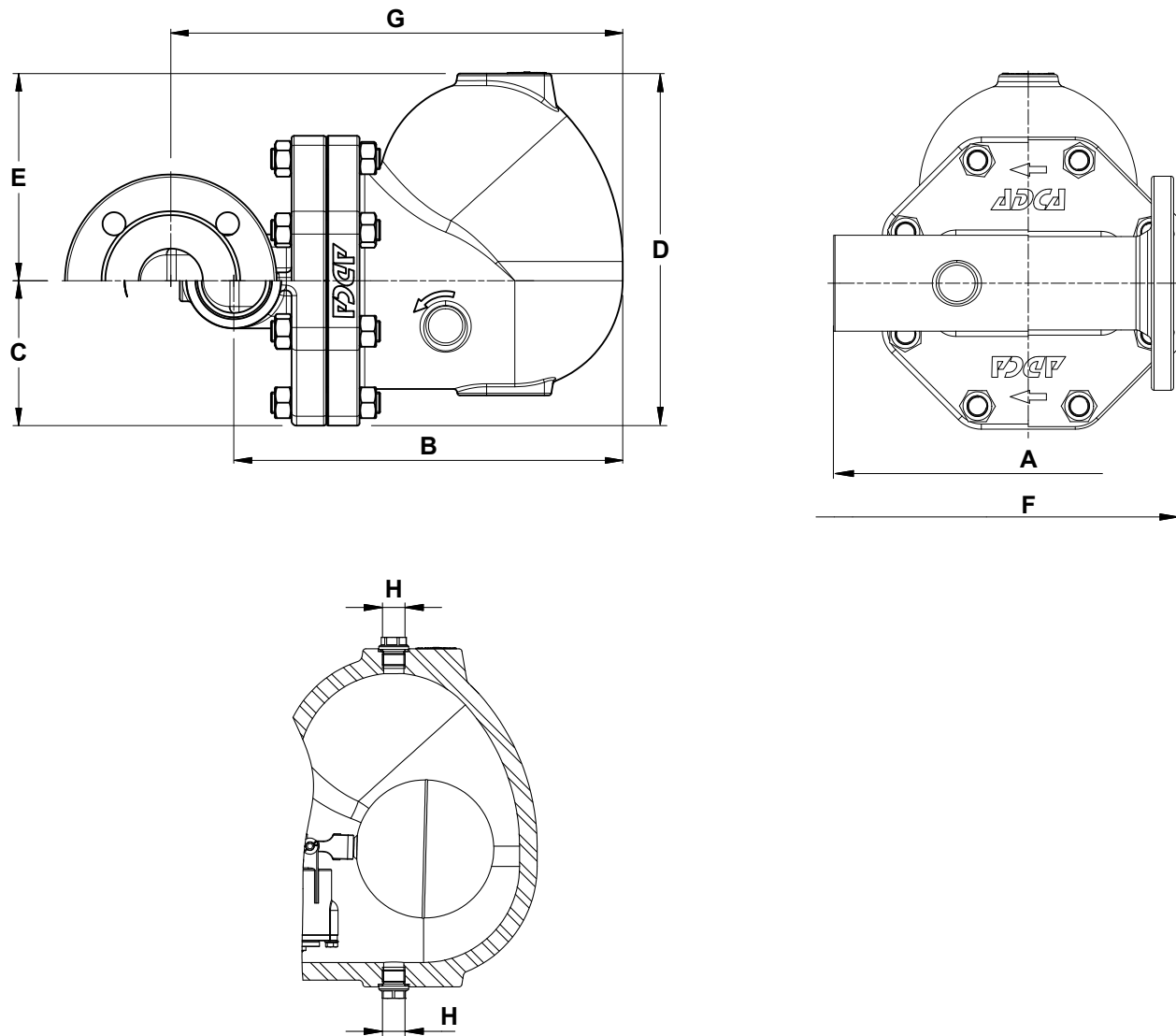


BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
40 bar	17,7 bar	100 °C
40 bar	14 bar	200 °C
39 bar	12,1 bar	250 °C
35,2 bar	10,2 bar	300 °C

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.

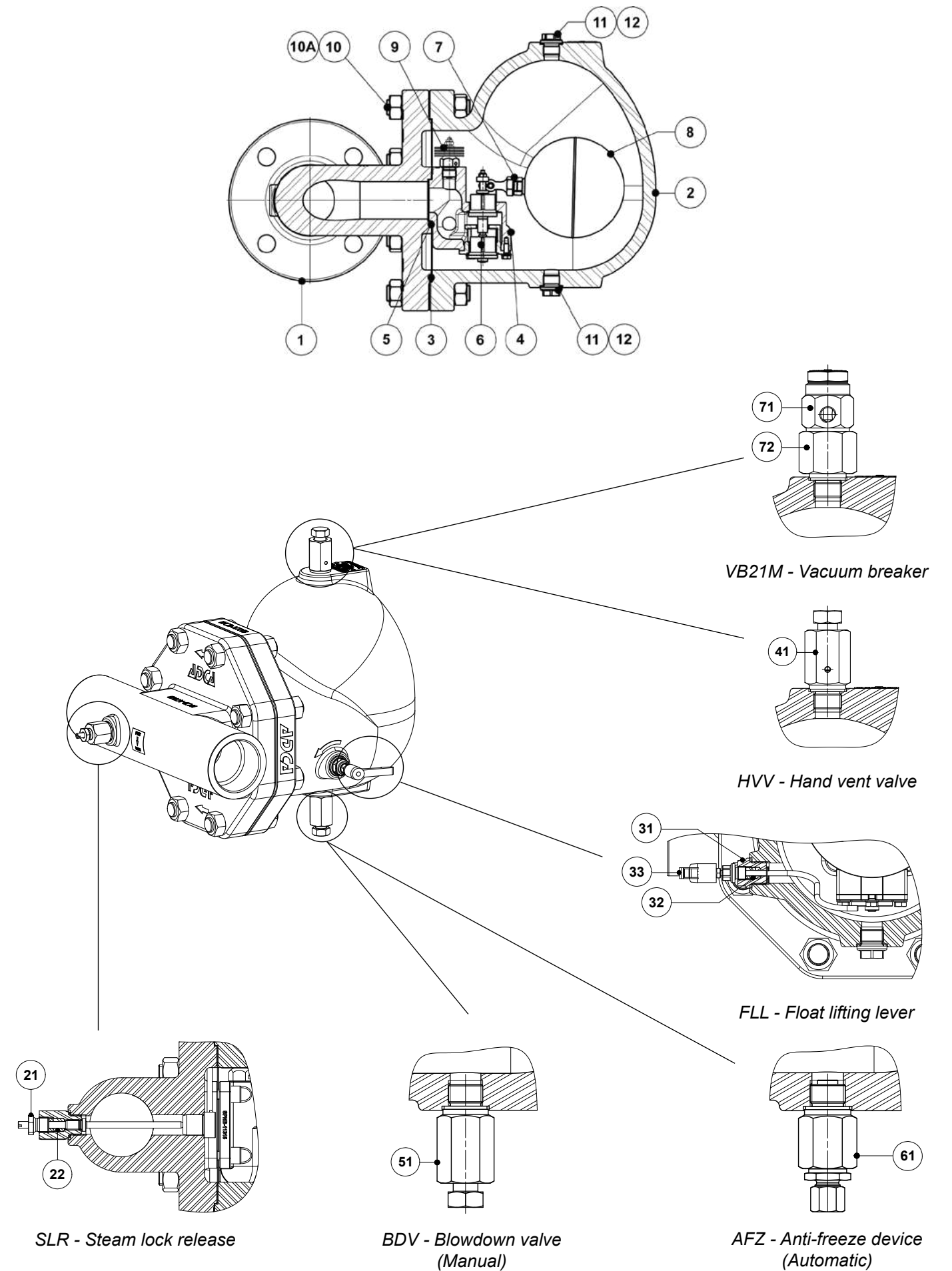


FLOW RATE CAPACITY (kg/h)														
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT39-4,5	2" - DN 50	7550	11000	14000	15500	22500	-	-	-	-	-	-	-	-
FLT39-10	2" - DN 50	3900	5000	6100	7100	10000	13750	16000	-	-	-	-	-	-
FLT39-21	2" - DN 50	1900	2700	3100	3600	5000	6900	8100	9000	9800	10050	11150	-	-
FLT39-32	2" - DN 50	1900	2700	3100	3600	5000	6900	8100	9000	9800	10050	11150	12000	12550



DIMENSIONS (mm)																
SIZE	THREADED / SW							PN 40			CLASS 150			CLASS 300		
	A	B	C	D	E	H*	WGT. (kg)	F	G	WGT. (kg)	F	G	WGT. (kg)	F	G	WGT. (kg)
2" - DN 50	300	303	80	215	136	3/8"	35,5	230	352	40,8	230	352	39,9	230	352	40,4

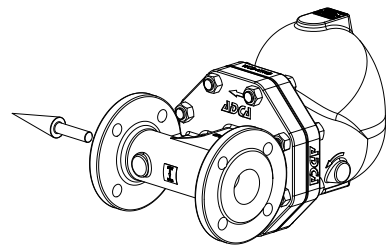
\* As standard, in versions with EN flanges and female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.



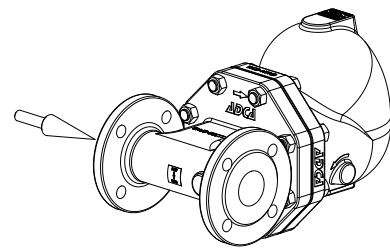
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	A216 WCB / 1.0619
2	Cover	A216 WCB / 1.0619
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel (bimetallic)
10	Studs	Zinc plated steel
10A	Nuts	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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.

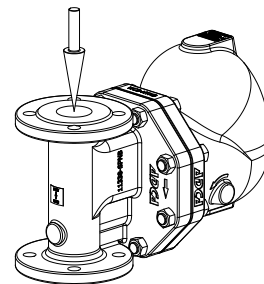
**FLOW DIRECTION**



IR - Horizontal from right to left



IL - Horizontal from left to right



IT - Vertical from top to bottom

ORDERING CODES FLT39										
Model	A39	2	V	XX	X	X	IR	A	50	
FLT39 – A216 WCB / 1.0619 carbon steel	A39									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
21 bar		4								
32 bar		5								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None						XX				
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)						10				
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None								X		
With steam lock release assembled								S		
<b>FLL - Float lifting lever</b>										
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		
<b>Flow direction</b>										
Horizontal from right to left (standard)									IR	
Horizontal from left to right									IL	
Vertical from top to bottom									IT	
<b>Pipe connections</b>										
Female threaded ISO 7 Rp										A
Female threaded NPT										C
Socket weld ASME B16.11										H
Flanged EN 1092-1 PN 40										N
Flanged ASME B16.5 Class 150										U
Flanged ASME B16.5 Class 300										V
<b>Size</b>										
2" or DN 50										50
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

## FLOAT AND THERMOSTATIC STEAM TRAPS FLT39TW (Carbon steel 3" – 4"; DN 80 – 100)

### DESCRIPTION

The FLT39TW is a range of high capacity 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 and high flow capacities are involved.

### 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.
- HVV – Hand vent valve.
- BDV – Blowdown valve.
- AFZ – Anti-freeze device.
- VB21M – Vacuum breaker.

**USE:** Saturated and superheated steam.

**AVAILABLE MODELS:** FLT39TW-4,5 , 10 , 21 and 32 – carbon steel.

**SIZES:** 3" to 4"; DN 80 to DN 100.

**CONNECTIONS:** Flanged EN 1092-1 PN 16 or PN 40.  
Flanged ASME B16.5 Class 150 or 300.

**INSTALLATION:** Horizontal or vertical installation.

**MAX. ΔP:**

- FLT39TW-4,5 – 4,5 bar
- FLT39TW-10 – 10 bar
- FLT39TW-21 – 21 bar
- FLT39TW-32 – 32 bar



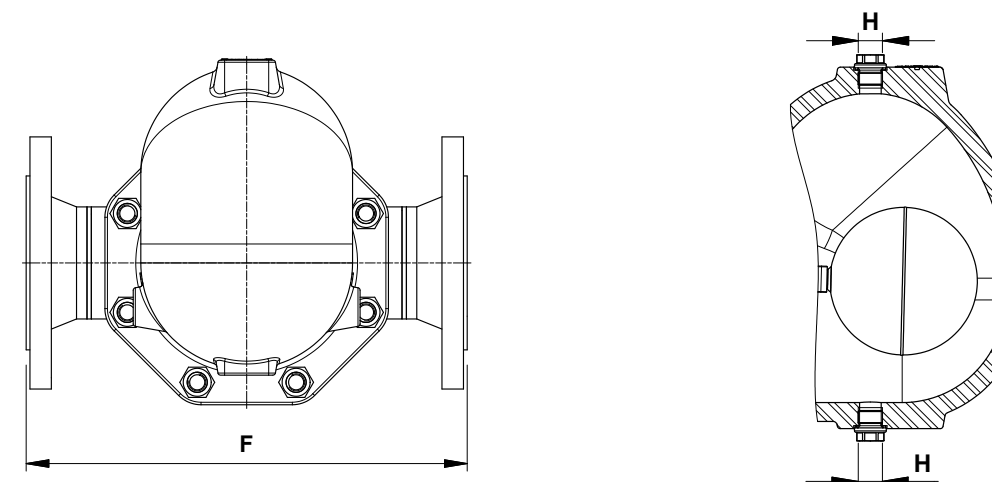
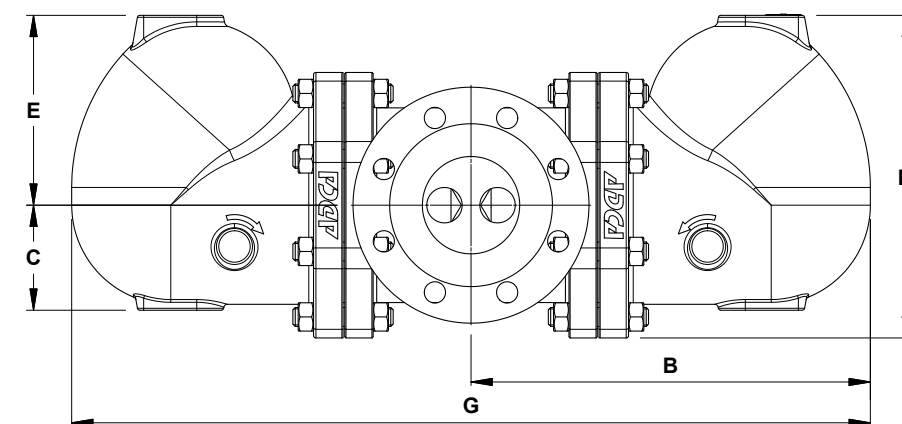
CE MARKING – GROUP 2 (PED – European Directive)		
PN 16	PN 40	Category
3" to 4" DN 80 to 100	–	1 (CE marked)
–	3" to 4" DN 80 to 100	2 (CE marked)

BODY LIMITING CONDITIONS			
FLANGED PN 16 *	FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
14,8 bar	37,1 bar	17,7 bar	100 °C
13,3 bar	33,3 bar	14 bar	200 °C
12,1 bar	30,4 bar	12,1 bar	250 °C
11 bar	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.

### FLOW RATE CAPACITY (kg/h)

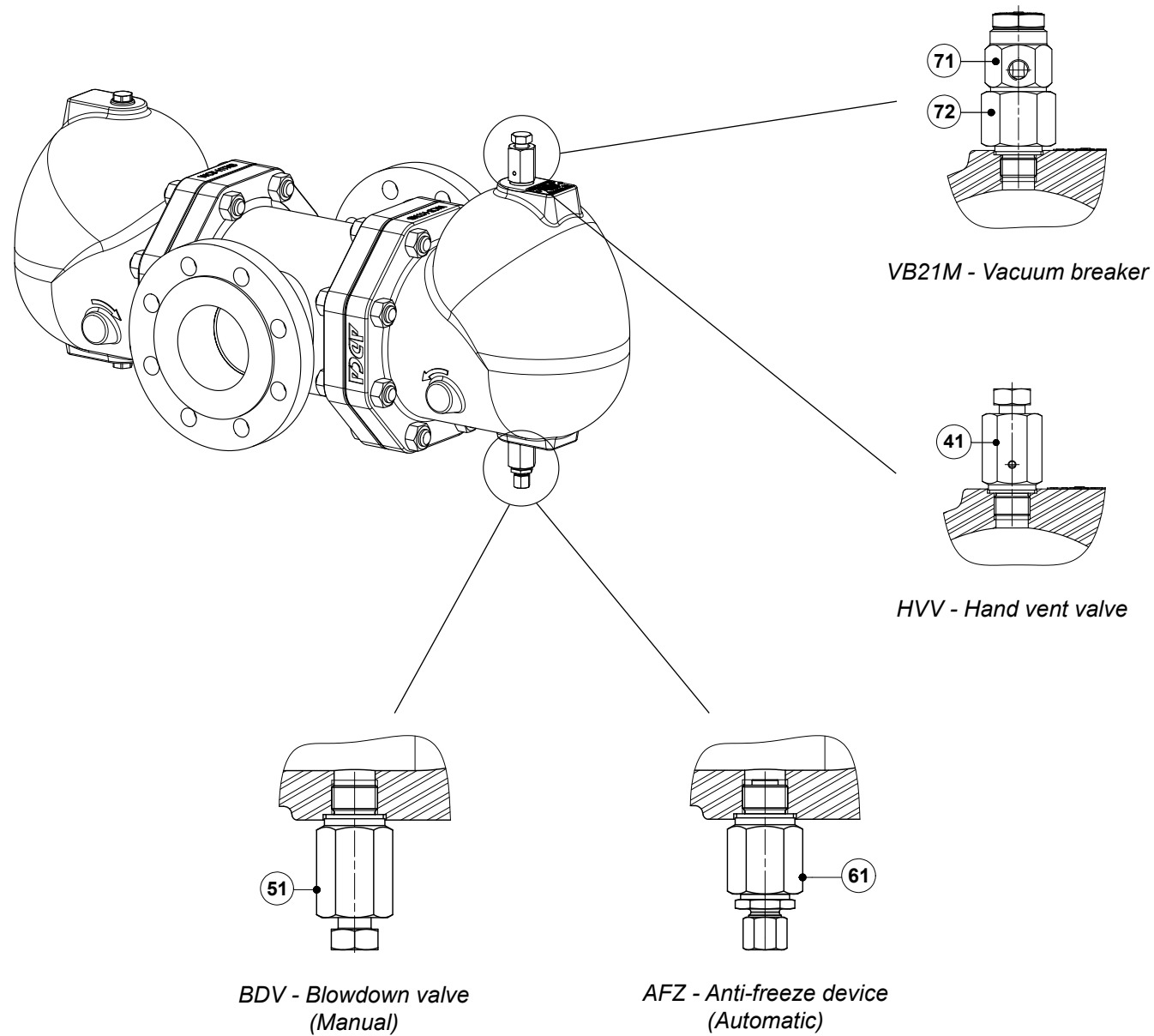
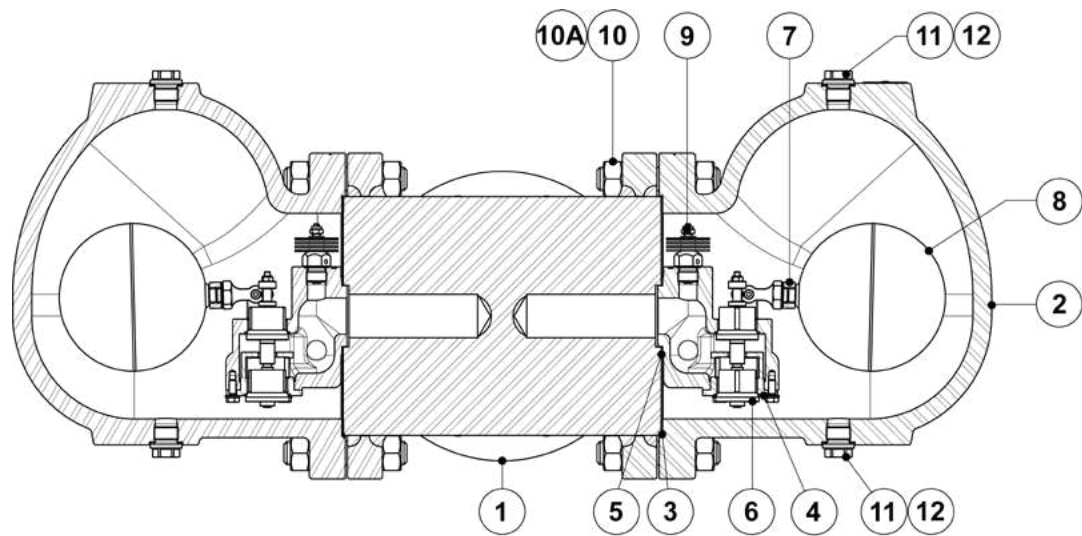
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT39TW-4,5	3" to 4" – DN 80 to 100	15100	22000	28000	31000	45000	–	–	–	–	–	–	–	–
FLT39TW-10	3" to 4" – DN 80 to 100	7800	10000	12200	14200	20000	27500	32000	–	–	–	–	–	–
FLT39TW-21	3" to 4" – DN 80 to 100	3800	5400	6200	7200	10000	13800	16200	18000	19600	20100	22300	–	–
FLT39TW-32	3" to 4" – DN 80 to 100	3800	5400	6200	7200	10000	13800	16200	18000	19600	20100	22300	24000	25100



DIMENSIONS (mm)											
SIZE	PN 16							PN 40	CLASS 150	CLASS 300	
	B	C	D	E	F	G	H *	WEIGHT (kg)	WEIGHT (kg)	WEIGHT (kg)	
3" – DN 80	339	113	273	161	350	677	3/8"	89,3	90,9	90,4	94,2
4" – DN 100	339	113	273	161	350	677	3/8"	88,5	92	91,7	100,2

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

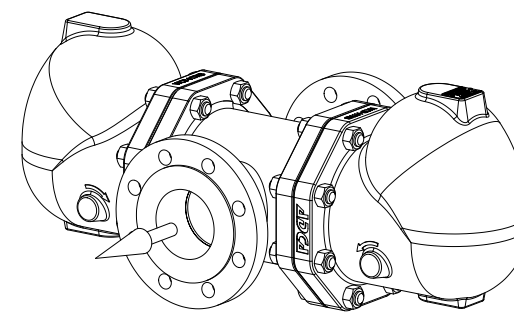




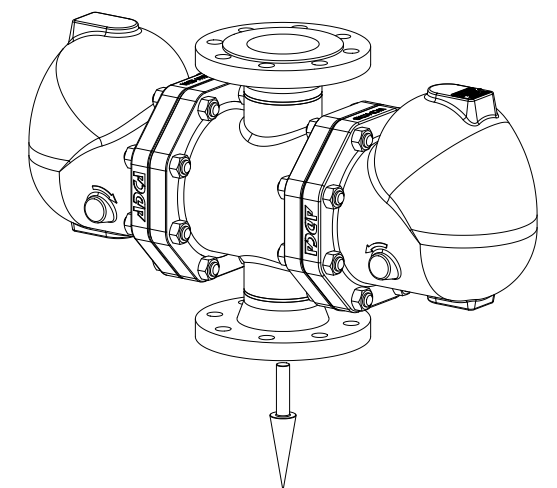
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460; P235GH / 1.0345; S235JR / 1.0038
2	Cover	A216 WCB / 1.0619
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel (bimetallic)
10	Studs	Zinc plated steel
10A	Nuts	Zinc plated steel
11	Plug	AISI 316L / 1.4404
12	** Gasket	Copper; AISI 304 / 1.4301
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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.

**FLOW DIRECTION**



IH - Horizontal



IT - Vertical from top to bottom

ORDERING CODES FLT39TW									
Model	A39T	2	V	XX	IH	L	80	E	
FLT39TW – A216 WCB / 1.0619 carbon steel	A39T								
<b>Differential pressure</b>									
4,5 bar		2							
10 bar		3							
21 bar		4							
32 bar		5							
<b>Automatic air vent</b>									
Bimetallic air vent (standard)			V						
None			X						
<b>Cover connections</b>									
None				XX					
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10					
<b>Options</b>									
HVV, BDV, AFZ and VB21M have specific separated ordering codes, please refer to the appropriate documentation.									
<b>Flow direction</b>									
Horizontal					IH				
Vertical from top to bottom					IT				
<b>Pipe connections</b>									
Flanged EN 1092-1 PN 16						L			
Flanged EN 1092-1 PN 40						N			
Flanged ASME B16.5 Class 150						U			
Flanged ASME B16.5 Class 300						V			
<b>Size</b>									
3" or DN 80							80		
4" or DN 100							100		
<b>Special valves / Extras</b>									
Full description or additional codes have to be added in case of a non-standard combination									E

**FLOAT AND THERMOSTATIC STEAM TRAPS  
FLT40  
(Stainless steel 1/2" – 1"; DN 15 – 25)**

**DESCRIPTION**

The FLT40 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.  
VB21M – Vacuum breaker.

**USE:** Saturated and superheated steam.

**AVAILABLE MODELS:** FLT40-4,5 , 10, 14 and 21 – stainless 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 16.11.

**INSTALLATION:** Inline horizontal or vertical installation.  
Angled horizontal or vertical installation.  
See IMI – Installation and maintenance instructions.

**MAX. ΔP:** FLT40-4,5 – 4,5 bar  
FLT40-10 – 10 bar  
FLT40-14 – 14 bar  
FLT40-21 – 21 bar

**CE MARKING – GROUP 2 (PED – European Directive)**

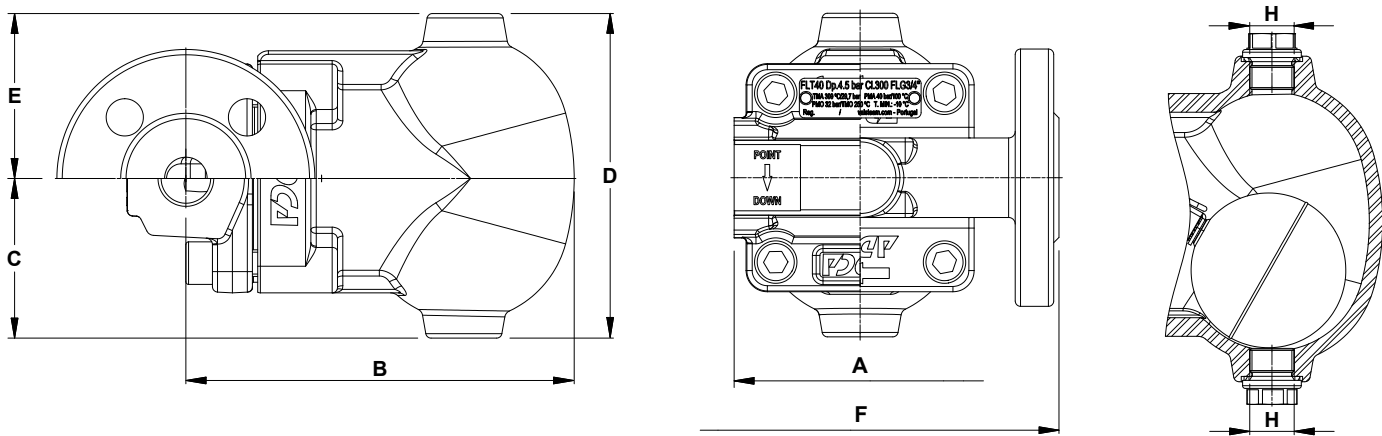
PN 40	Category
1/2" to 1" – DN 15 to 25	SEP



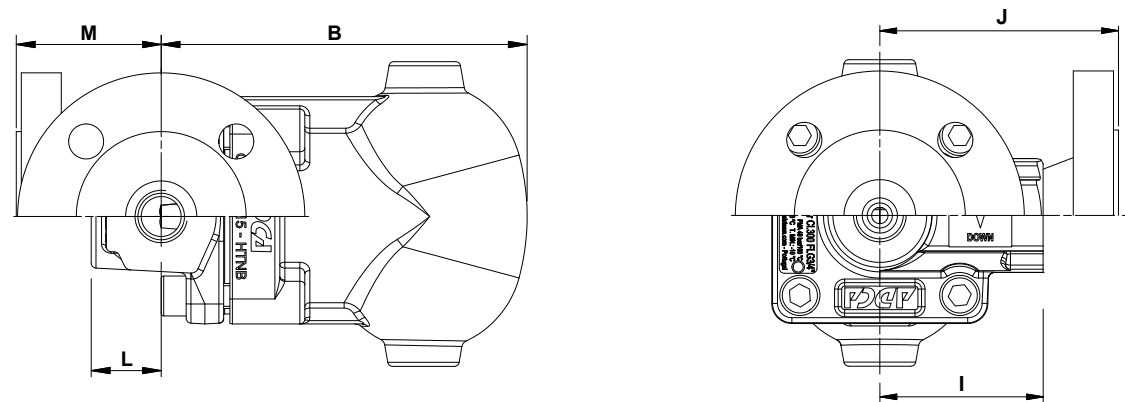
BODY LIMITING CONDITIONS			
FLANGED PN 40 *	FLANGED CLASS 300 **	FLANGED CLASS 150 **	RELAT. TEMP.
ALLOW. PRESS.	ALLOW. PRESS.	ALLOW. PRESS.	
37,9 bar	34,4 bar	13,3 bar	100 °C
31,8 bar	28,8 bar	11,1 bar	200 °C
29,9 bar	26,6 bar	10,2 bar	250 °C
27,6 bar	25,2 bar	9,7 bar	300 °C

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	SIZE	DIFFERENTIAL PRESSURE (bar)										
		0,5	1	1,5	2	4,5	7	10	12	14	16	21
FLT40-4,5	1/2" to 1" – DN 15 to 25	220	280	320	360	495	–	–	–	–	–	–
FLT40-10	1/2" to 1" – DN 15 to 25	200	252	290	335	440	505	595	–	–	–	–
FLT40-14	1/2" to 1" – DN 15 to 25	145	198	225	252	350	415	480	535	580	–	–
FLT40-21	1/2" to 1" – DN 15 to 25	70	95	120	150	205	250	320	380	390	405	435



Inline design

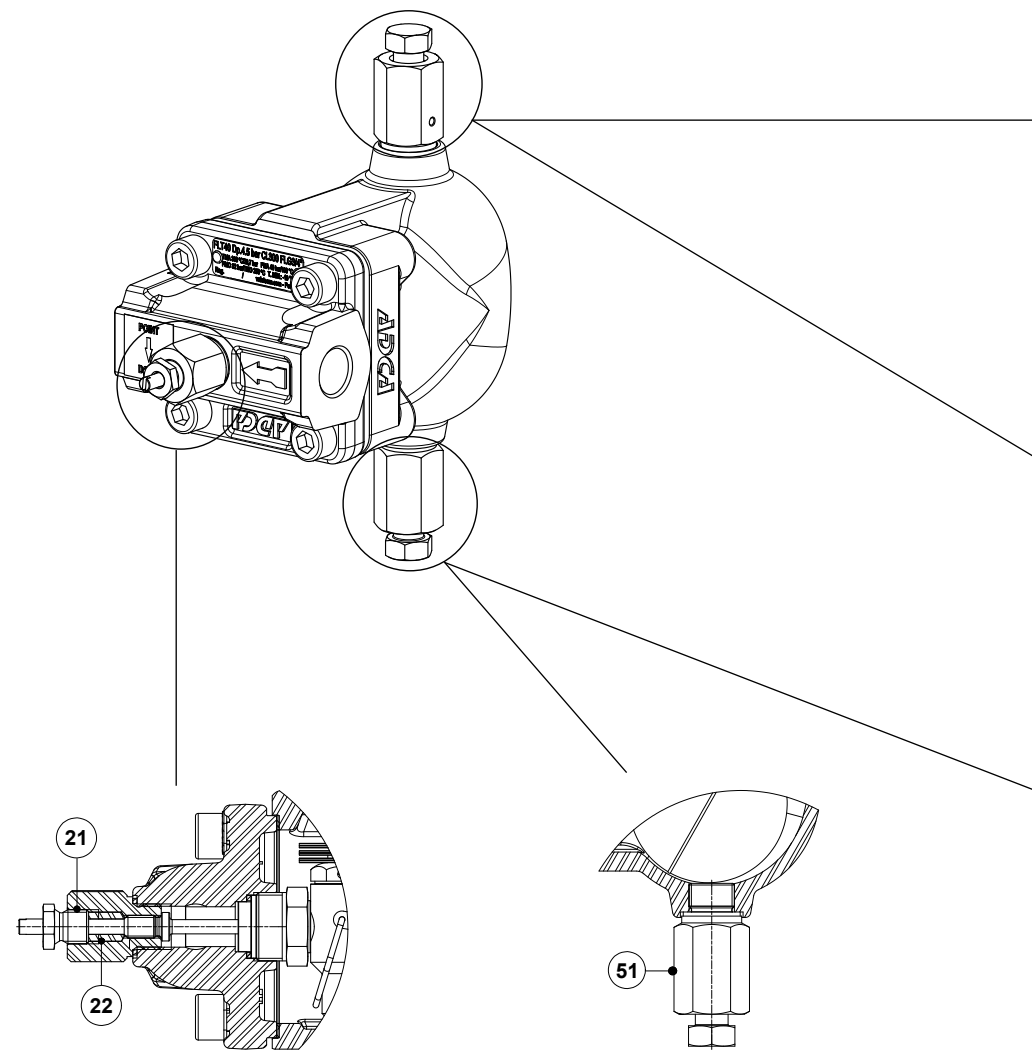
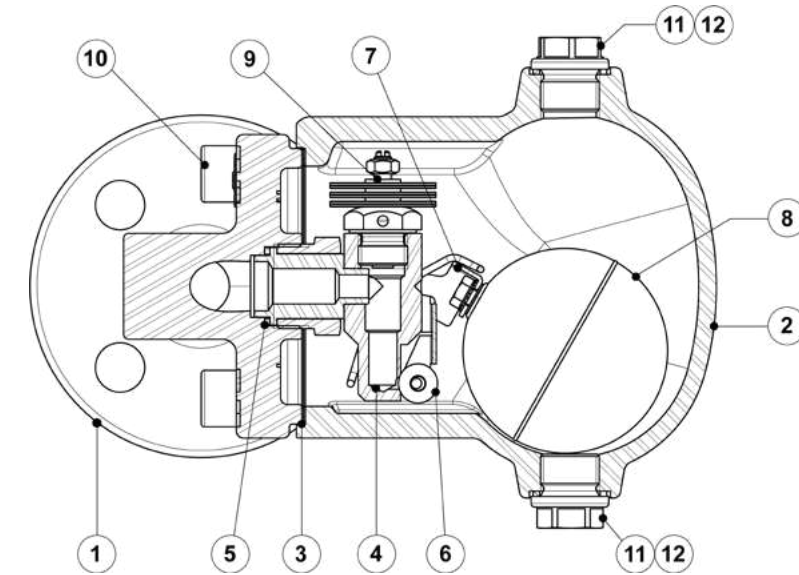


Angled design

DIMENSIONS (mm) – INLINE DESIGN													
SIZE	THREADED / SW						PN 40		CLASS 150		CLASS 300		
	A	B	C	D	E	H *	WEIGHT (kg)	F	WEIGHT (kg)	F	WEIGHT (kg)	F	WEIGHT (kg)
1/2" – DN 15	95	146	60	122	62	3/8"	3,8	150	5,1	150	4,8	150	5
3/4" – DN 20	95	146	60	122	62	3/8"	3,8	150	5,7	150	5	150	6
1" – DN 25	95	146	60	122	62	3/8"	3,6	160	6,4	160	6	160	6,8

DIMENSIONS (mm) – ANGLED DESIGN																	
SIZE	THREADED / SW							PN 40			CLASS 150			CLASS 300			
	B	C	D	E	H *	I	L	WGT. (kg)	J	M	WGT. (kg)	J	M	WGT. (kg)	J	M	WGT. (kg)
1/2" – DN 15	146	60	122	62	3/8"	65	28	3,8	95	58	5,3	100	63	4,8	105	68	5,4
3/4" – DN 20	146	60	122	62	3/8"	65	28	3,8	95	58	5,9	100	63	5,2	110	73	6,4
1" – DN 25	146	60	122	62	3/8"	65	28	3,8	95	58	6,3	100	63	5,7	110	73	6,9

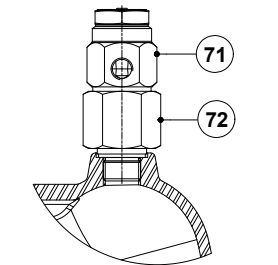
\* As standard, in versions with EN flanges or female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.



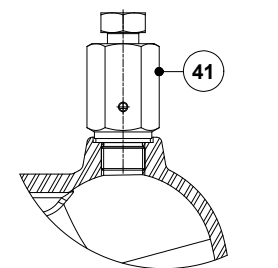
SLR - Steam lock release

BDV - Blowdown valve (Manual)

AFZ - Anti-freeze device (Automatic)



VB21M - Vacuum breaker



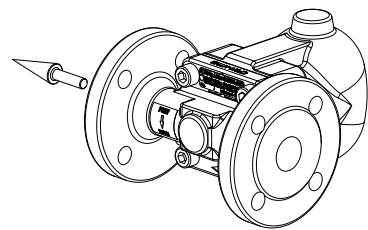
HVV - Hand vent valve



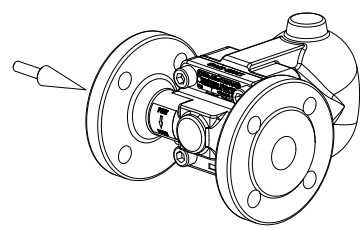
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body (inline flanged)	A351 CF8M / 1.4408
	Body (inline threaded)	AISI 316L / 1.4404
	Body (angled)	AISI 316L / 1.4404
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401
7	* Lever	AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel; Bimetallic
10	Bolts	Stainless steel A2-70
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
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.

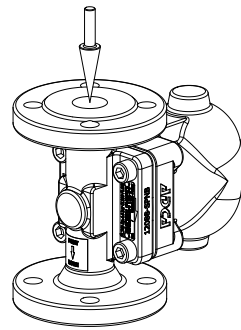
**FLOW DIRECTION**



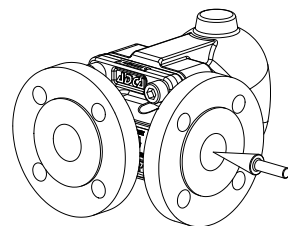
IR - Horizontal from right to left



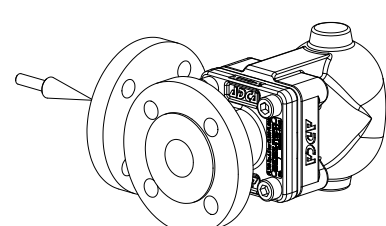
IL - Horizontal from left to right



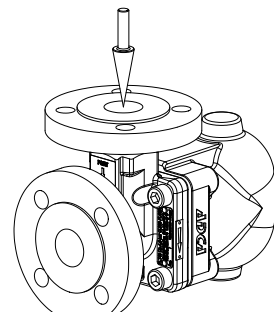
IT - Vertical from top to bottom



AR - Angled from right to front



AL - Angled from left to front



AT - Angled from top to front

ORDERING CODES FLT40										
Model	A40	2	V	XX	X	IR	A	15		
FLT40 – stainless steel	A40									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
14 bar		4								
21 bar		5								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)					10					
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None						X				
With steam lock release assembled						S				
<b>Flow direction</b>										
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			
<b>Pipe connections</b>										
Female threaded ISO 7 Rp								A		
Female threaded NPT								C		
Socket weld (SW) ASME 16.11								H		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
<b>Size</b>										
1/2" or DN 15									15	
3/4" or DN 20									20	
1" or DN 25									25	
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

**FLOAT AND THERMOSTATIC STEAM TRAPS**  
**FLT41**  
**(Stainless steel 1/2" – 1"; DN 15 – 25)**

**DESCRIPTION**

The FLT41 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:** FLT41-4,5 , 10 , 14 , 21 and 32 – stainless 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 16.11.

**INSTALLATION:** Inline horizontal or vertical installation.  
Angled horizontal or vertical installation.  
See IMI – Installation and maintenance instructions.

**MAX. ΔP:** FLT41-4,5 – 4,5 bar  
FLT41-10 – 10 bar  
FLT41-14 – 14 bar  
FLT41-21 – 21 bar  
FLT41-32 – 32 bar



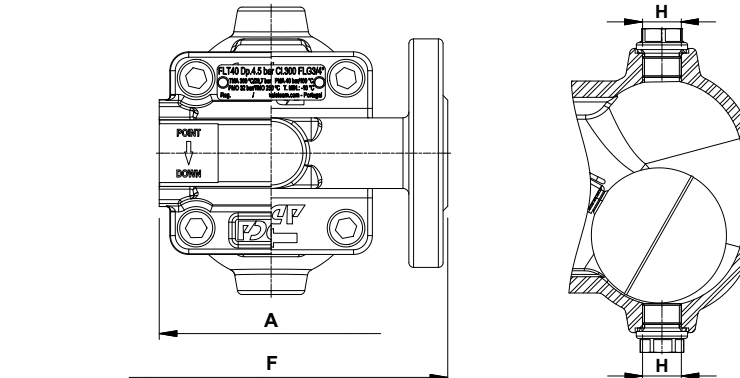
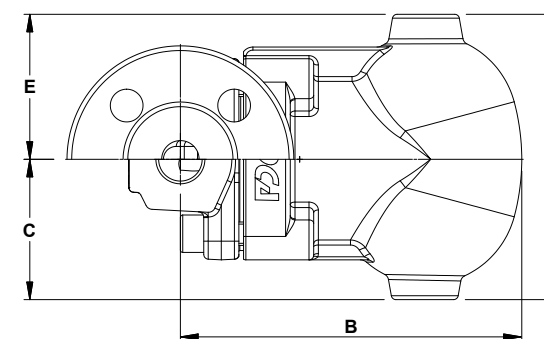
BODY LIMITING CONDITIONS			
FLANGED PN 40 *	FLANGED CLASS 300 **	FLANGED CLASS 150 **	RELAT. TEMP.
ALLOW. PRESS.	ALLOW. PRESS.	ALLOW. PRESS.	
37,9 bar	34,4 bar	13,3 bar	100 °C
31,8 bar	28,8 bar	11,1 bar	200 °C
29,9 bar	26,6 bar	10,2 bar	250 °C
27,6 bar	25,2 bar	9,7 bar	300 °C

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.

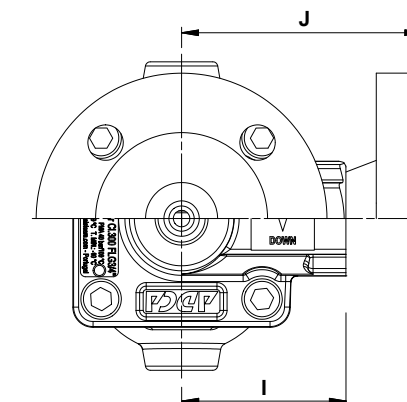
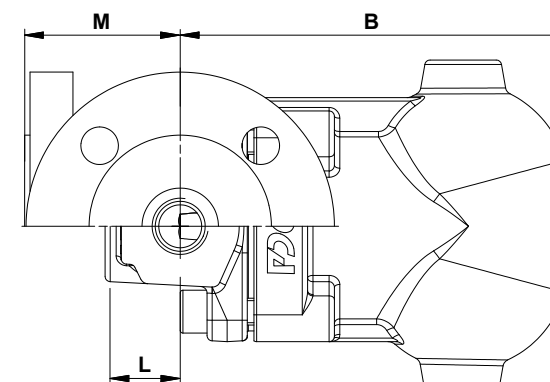
CE MARKING – GROUP 2 (PED – European Directive)	
PN 40	Category
1/2" to 1" – DN 15 to 25	SEP

**FLOW RATE CAPACITY (kg/h)**

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT41-4,5	1/2" to 1" – DN 15 to 25	305	395	455	500	680	–	–	–	–	–	–	–	–
FLT41-10	1/2" to 1" – DN 15 to 25	235	330	400	440	630	694	705	–	–	–	–	–	–
FLT41-14	1/2" to 1" – DN 15 to 25	220	277	318	365	481	556	654	691	710	–	–	–	–
FLT41-21	1/2" to 1" – DN 15 to 25	148	205	228	255	353	418	485	530	560	595	635	–	–
FLT41-32	1/2" to 1" – DN 15 to 25	72	97	123	155	208	252	323	385	393	410	440	550	595



Inline design



Angled design

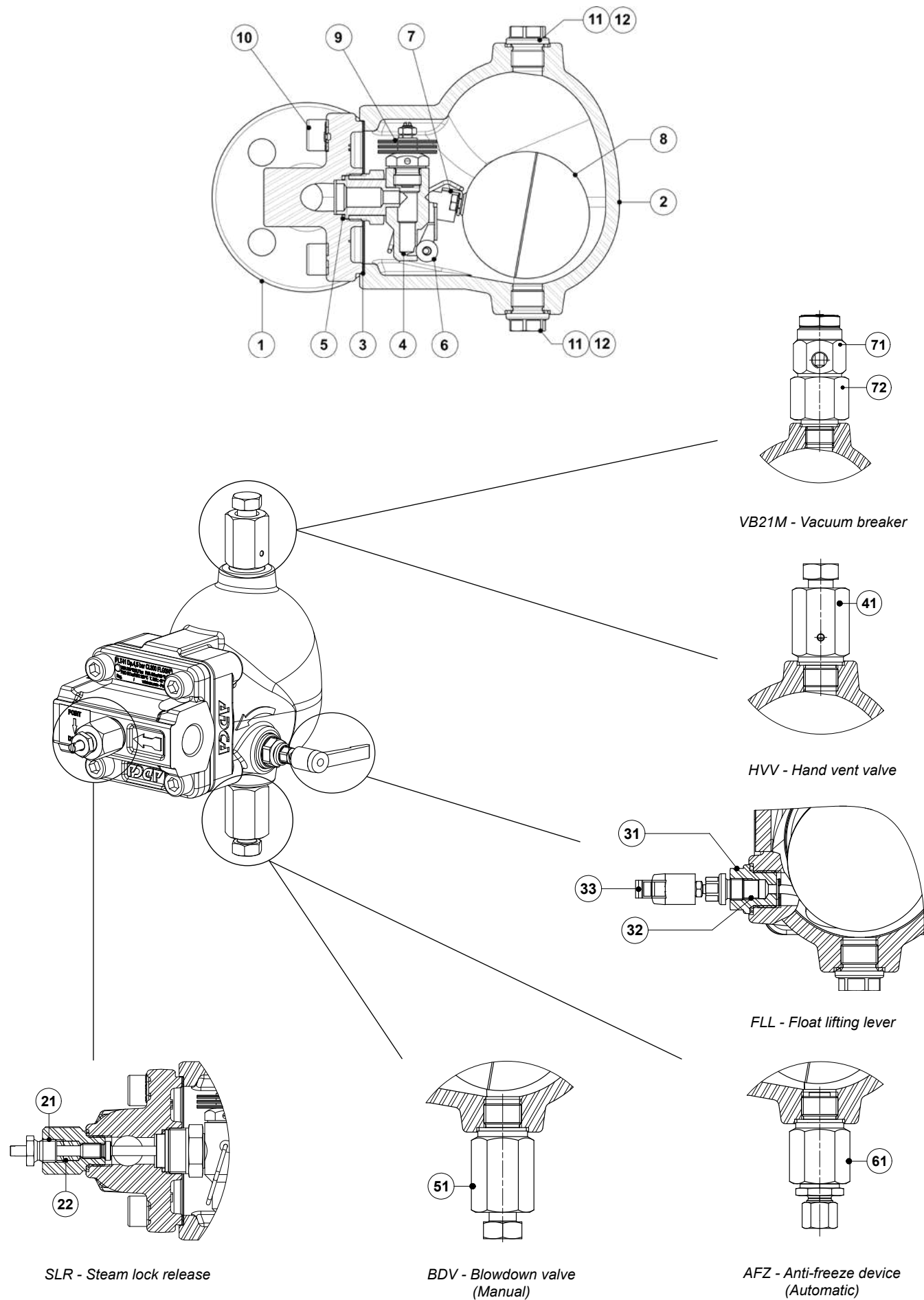
**DIMENSIONS (mm) – INLINE DESIGN**

SIZE	THREADED / SW							PN 40		CLASS 150		CLASS 300	
	A	B	C	D	E	H *	WEIGHT (kg)	F	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	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

**DIMENSIONS (mm) – ANGLED DESIGN**

SIZE	THREADED / SW							PN 40		CLASS 150		CLASS 300					
	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	4,8	95	58	6,5	100	63	6	105	68	6,5
3/4" – DN 20	160	60	139	79	3/8"	65	28	4,8	95	58	7	100	63	6,4	110	73	7,5
1" – DN 25	160	60	139	79	3/8"	65	28	4,8	95	58	7,5	100	63	6,9	110	73	8

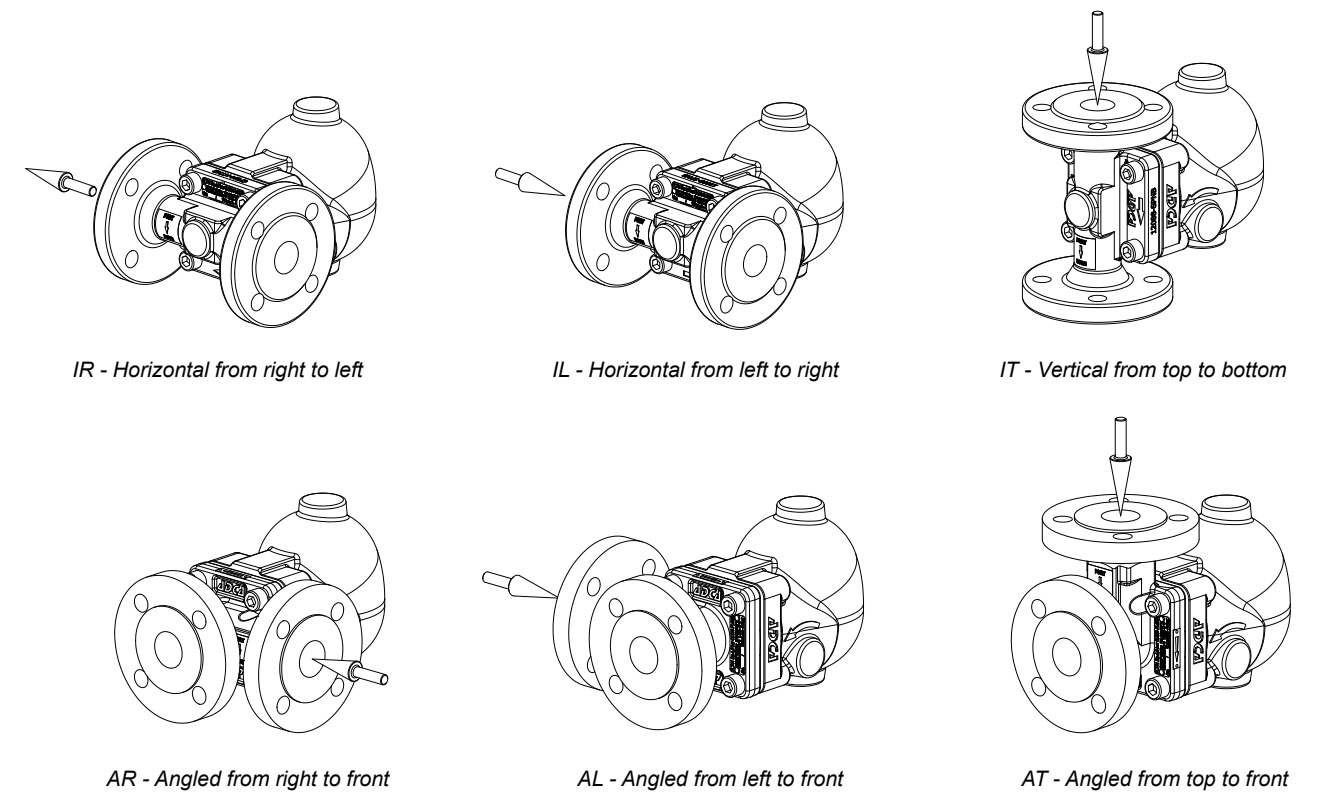
\* As standard, in versions with EN flanges or female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.



MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body (inline flanged)	A351 CF8M / 1.4408
	Body (inline threaded)	AISI 316L / 1.4404
	Body (angled)	AISI 316L / 1.4404
2	Cover	A351 CF8M / 1.4408
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	Stainless steel A2-70
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**





ORDERING CODES FLT41										
Model	A41	2	V	XX	X	X	IR	A	15	
FLT41 – stainless steel	A41									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
14 bar		4								
21 bar		5								
32 bar		7								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)					10					
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None						X				
With steam lock release assembled						S				
<b>FLL - Float lifting lever</b>										
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	
<b>Flow direction</b>										
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
<b>Pipe connections</b>										
Female threaded ISO 7 Rp										A
Female threaded NPT										C
Socket weld (SW) ASME 16.11										H
Flanged EN 1092-1 PN 40										N
Flanged ASME B16.5 Class 150										U
Flanged ASME B16.5 Class 300										V
<b>Size</b>										
1/2" or DN 15										15
3/4" or DN 20										20
1" or DN 25										25
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

## FLOAT AND THERMOSTATIC STEAM TRAPS FLT45 (Stainless steel 1"; DN 25)

### DESCRIPTION

The FLT45 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:** FLT45-4,5 , 10, 14, 21 and 32 – stainless steel.

**SIZES:** 1"; 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 16.11.

**INSTALLATION:** Inline horizontal or vertical installation.  
Angled horizontal or vertical installation.  
See IMI – Installation and maintenance instructions.

**MAX. ΔP:**

- FLT45-4,5 – 4,5 bar
- FLT45-10 – 10 bar
- FLT45-14 – 14 bar
- FLT45-21 – 21 bar
- FLT45-32 – 32 bar

### CE MARKING – GROUP 2 (PED – European Directive)

CLASS 150	PN 40	Category
1" – DN 25	–	SEP
–	1" – DN 25	1 (CE marked)

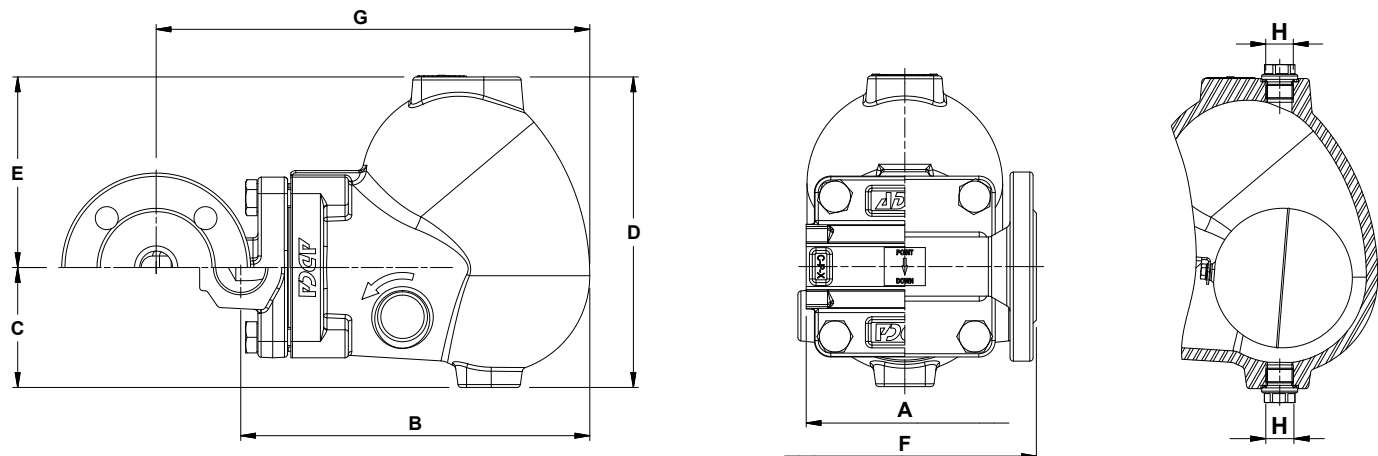


### BODY LIMITING CONDITIONS

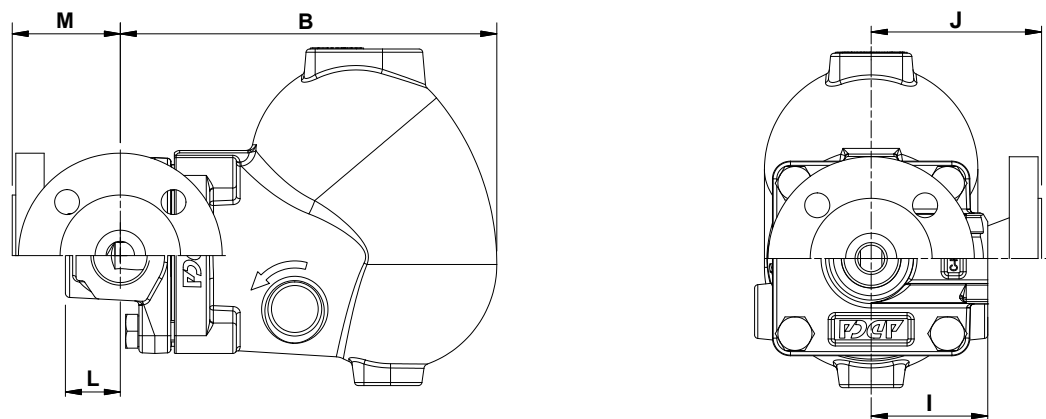
FLANGED PN 40 *	FLANGED CLASS 300 **	FLANGED CLASS 150 **	RELAT. TEMP.
ALLOW. PRESS.	ALLOW. PRESS.	ALLOW. PRESS.	
37,9 bar	34,4 bar	13,3 bar	100 °C
31,8 bar	28,8 bar	11,1 bar	200 °C
29,9 bar	26,6 bar	10,2 bar	250 °C
27,6 bar	25,2 bar	9,7 bar	300 °C

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	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT45-4,5	1" – DN 25	900	1250	1490	1630	2490	–	–	–	–	–	–	–	–
FLT45-10	1" – DN 25	445	610	705	850	1285	1670	1820	–	–	–	–	–	–
FLT45-14	1" – DN 25	335	445	515	600	885	1150	1350	1500	1610	–	–	–	–
FLT45-21	1" – DN 25	255	335	380	410	555	680	745	790	815	895	920	–	–
FLT45-32	1" – DN 25	230	275	315	345	440	500	570	600	610	650	705	750	810



Inline design

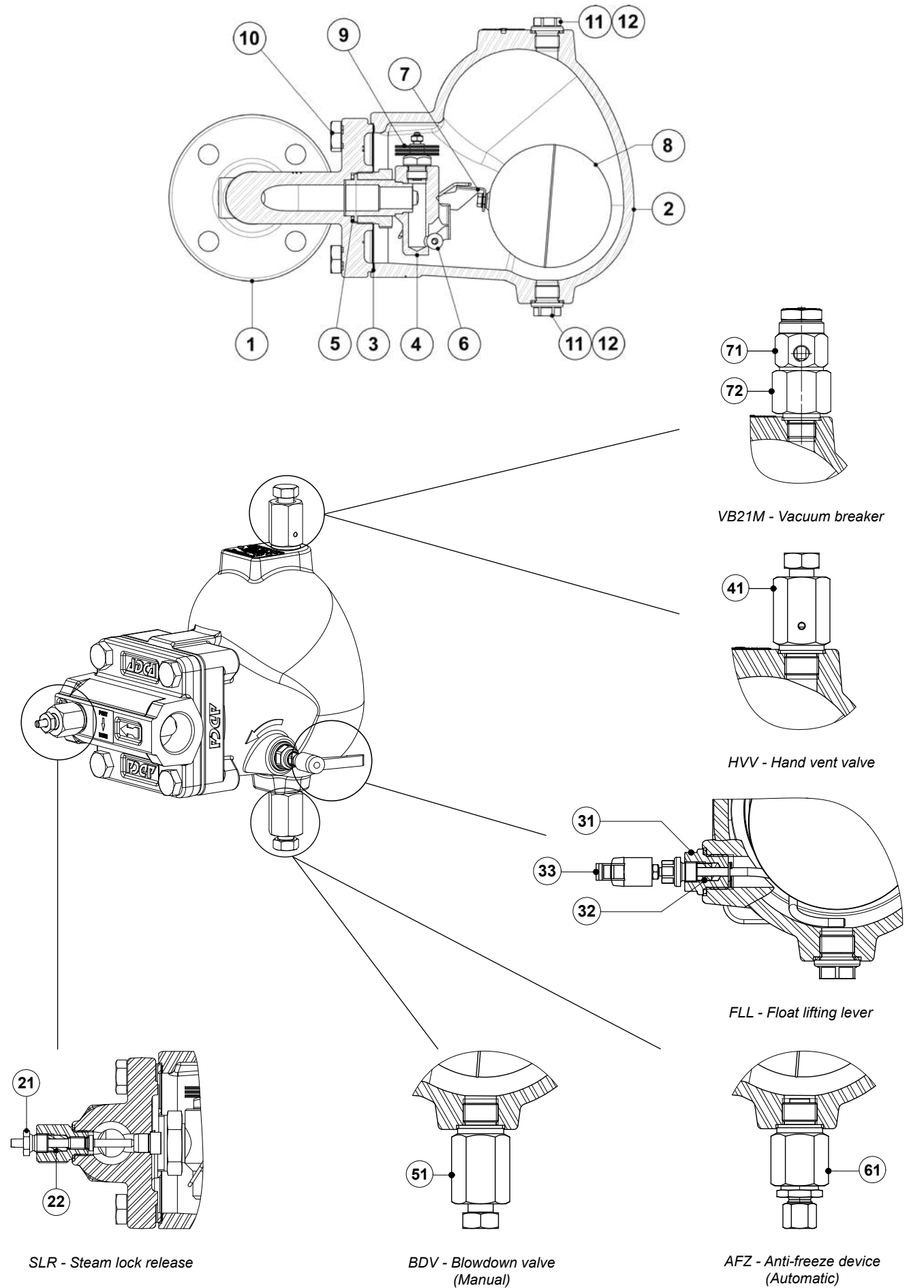


Angled design

DIMENSIONS (mm) – INLINE DESIGN																
SIZE	THREADED / SW							PN 40			CLASS 150			CLASS 300		
	A	B	C	D	E	H*	WGT. (kg)	F	G	WGT. (kg)	F	G	WGT. (kg)	F	G	WGT. (kg)
1" – DN 25	120	212	73	189	116	3/8"	8,9	160	264	12	160	264	11,9	160	264	12,6

DIMENSIONS (mm) – ANGLED DESIGN																	
SIZE	THREADED / SW							PN 40			CLASS 150			CLASS 300			
	B	C	D	E	H*	I	L	WGT. (kg)	J	M	WGT. (kg)	J	M	WGT. (kg)	J	M	WGT. (kg)
1" – DN 25	212	73	189	116	3/8"	65	31	8,4	95	61	11	100	66	10,5	110	76	11,7

\* 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.



SLR - Steam lock release

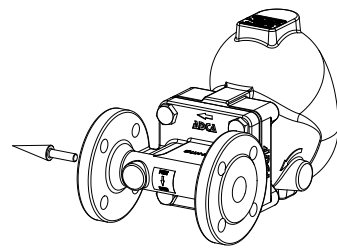
BDV - Blowdown valve (Manual)

AFZ - Anti-freeze device (Automatic)

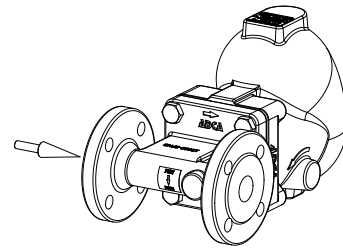
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body (inline flanged)	A351 CF8M / 1.4408
	Body (inline threaded)	AISI 316L / 1.4404
	Body (angled)	AISI 316L / 1.4404
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	AISI 303 / 1.4305
5	* Gasket	Copper
6	* Valve ball	AISI 316 / 1.4401
7	* Lever	AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel; Bimetallic
10	Bolts	Stainless steel A2-70
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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.

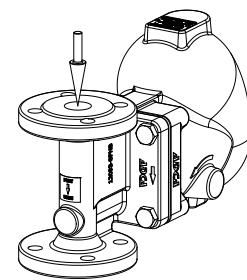
**FLOW DIRECTION**



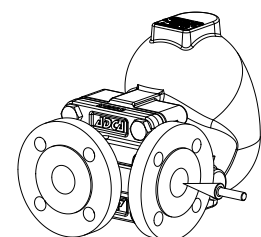
IR - Horizontal from right to left



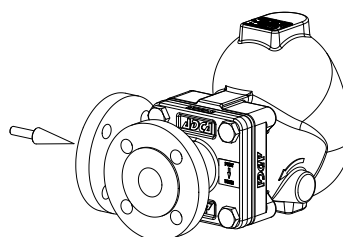
IL - Horizontal from left to right



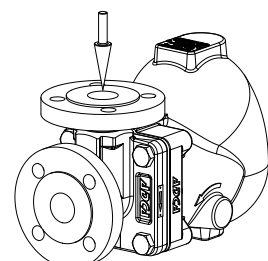
IT - Vertical from top to bottom



AR - Angled from right to front



AL - Angled from left to front



AT - Angled from top to front

ORDERING CODES FLT45											
Model	A45	2	V	XX	X	X	IR	A	25		
FLT45 – stainless steel	A45										
<b>Differential pressure</b>											
4,5 bar		2									
10 bar		3									
14 bar		4									
21 bar		5									
32 bar		7									
<b>Automatic air vent</b>											
Bimetallic air vent (standard)			V								
None			X								
<b>Cover connections</b>											
None				XX							
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10							
<b>Options</b>											
If any, these have specific separate ordering codes, please refer to the appropriate documentation.											
<b>SLR - Steam lock release</b>											
None							X				
With steam lock release assembled							S				
<b>FLL - Float lifting lever</b>											
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				
<b>Flow direction</b>											
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	
<b>Pipe connections</b>											
Female threaded ISO 7 Rp											A
Female threaded NPT											C
Socket weld (SW) ASME 16.11											H
Flanged EN 1092-1 PN 40											N
Flanged ASME B16.5 Class 150											U
Flanged ASME B16.5 Class 300											V
<b>Size</b>											
1" or DN 25											25
<b>Special valves / Extras</b>											
Full description or additional codes have to be added in case of a non-standard combination											E



## FLOAT AND THERMOSTATIC STEAM TRAPS FLT47 (Stainless steel 11/2" – 2"; DN 40 – 50)

### DESCRIPTION

The FLT47 is a range 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 and high flow capacities are involved.

### 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:** FLT47-4,5 , 10 , 21 and 32 – stainless steel.

**SIZES:** 11/2" to 2"; DN 40 to DN 50.

**CONNECTIONS:** Female threaded ISO 7 Rp or NPT. Flanged EN 1092-1 PN 40. Flanged ASME B16.5 Class 150 or 300. Socket weld ASME B16.11.

**INSTALLATION:** Horizontal or vertical installation.

**MAX. ΔP:**

- FLT47-4,5 – 4,5 bar
- FLT47-10 – 10 bar
- FLT47-21 – 21 bar
- FLT47-32 – 32 bar



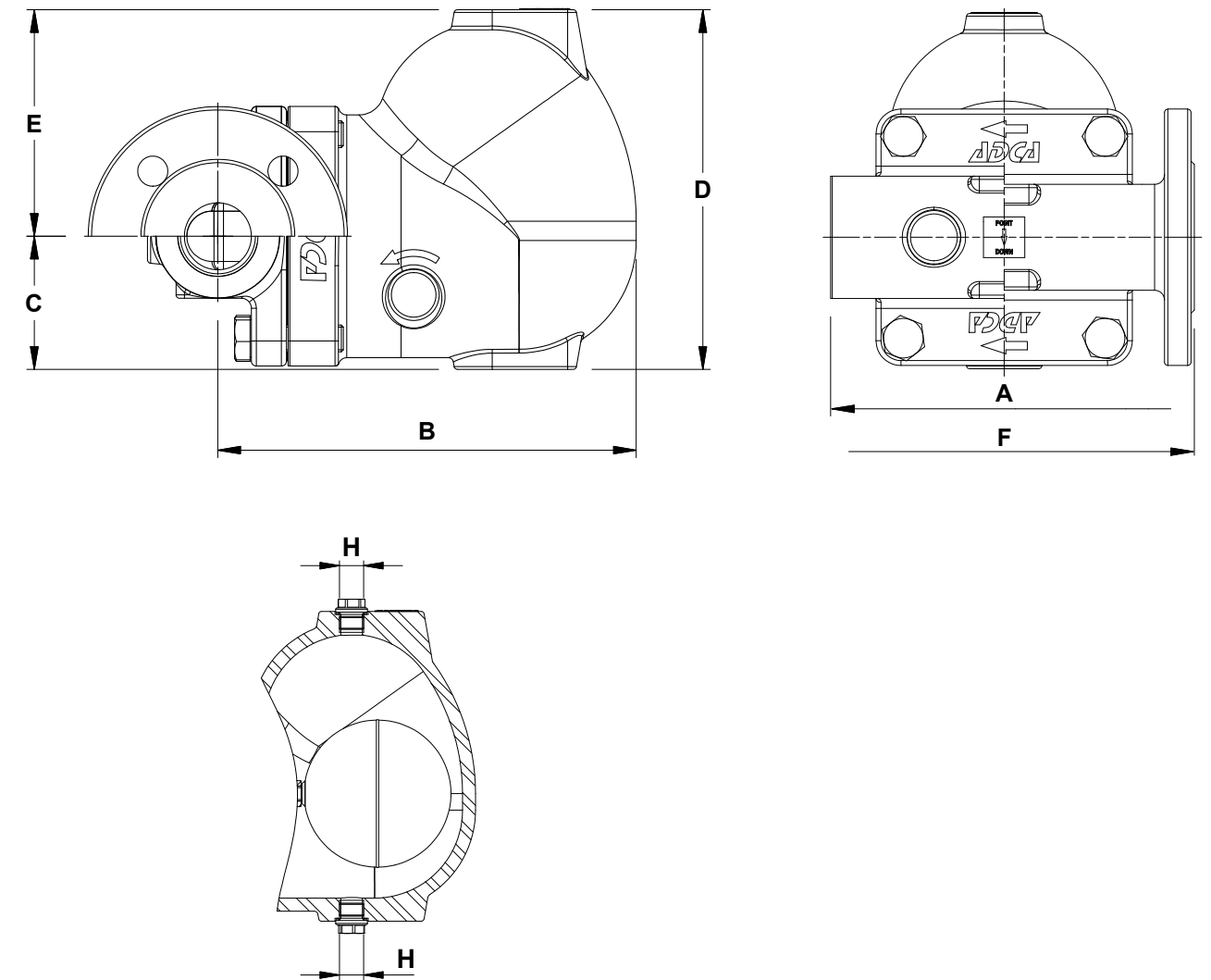
CE MARKING – GROUP 2 (PED – European Directive)		
CLASS 150	PN 40	Category
11/2" to 2" – DN 40 to 50	–	SEP
–	11/2" to 2" – DN 40 to 50	1 (CE marked)

BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
40 bar	16,3 bar	100 °C
33,7 bar	13,5 bar	200 °C
31,8 bar	12,1 bar	250 °C
29,7 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.

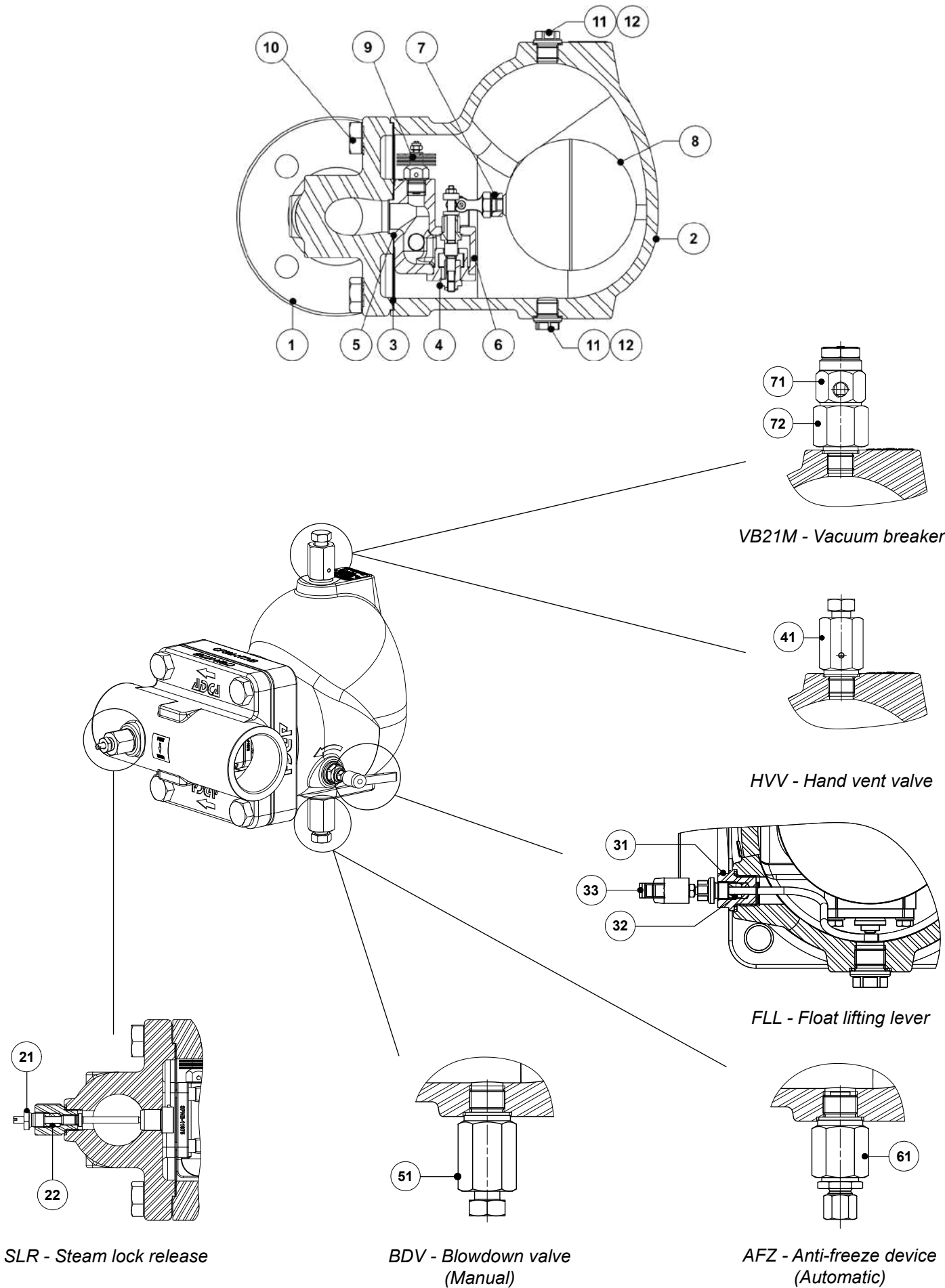
### FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT47-4,5	11/2" to 2" – DN 40 to 50	2400	3400	3900	4500	7300	–	–	–	–	–	–	–	–
FLT47-10	11/2" to 2" – DN 40 to 50	1500	2000	2600	3000	4000	5400	6200	–	–	–	–	–	–
FLT47-21	11/2" to 2" – DN 40 to 50	950	1300	1600	1800	2600	3250	3900	4210	4950	5000	5600	–	–
FLT47-32	11/2" to 2" – DN 40 to 50	950	1300	1600	1800	2600	3250	3900	4210	4950	5000	5600	6000	6500



DIMENSIONS (mm)													
THREADED / SW								PN 40		CLASS 150		CLASS 300	
SIZE	A	B	C	D	E	H *	WGT. (kg)	F	WGT. (kg)	F	WGT. (kg)	F	WGT. (kg)
11/2" – DN 40	210	250	80	215	136	3/8"	19	230	21,9	230	20,4	230	21,7
2" – DN 50	210	250	80	215	136	3/8"	18,4	230	23,8	230	21,7	230	23,4

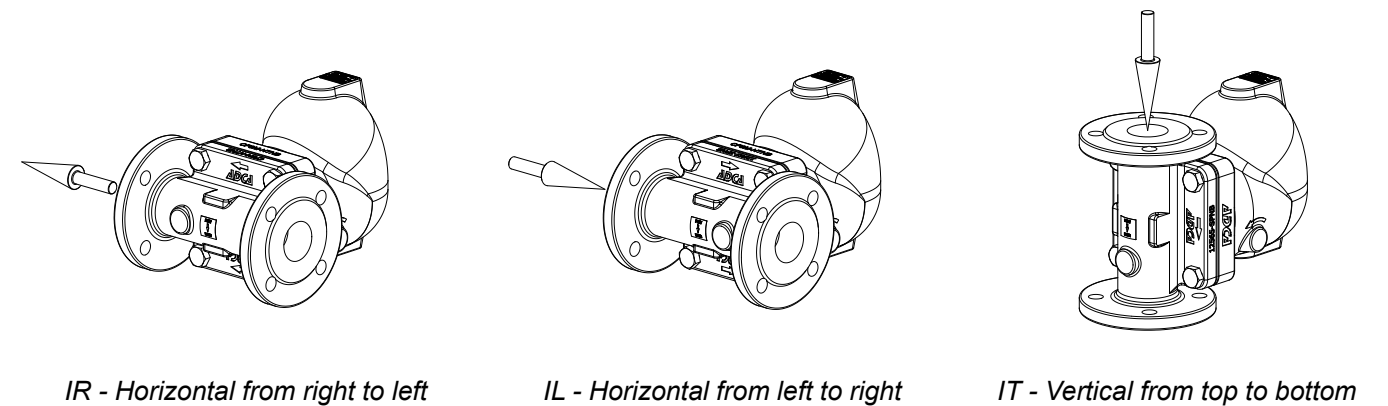
\* As standard, in versions with EN flanges and female ISO 7 Rp threads, these connections are female threaded ISO 228. In versions with ASME flanges, female NPT threads or SW, these connections are female threaded NPT.



MATERIALS		
POS N°	DESIGNATION	MATERIAL
1	Body	A351 CF8M / 1.4408
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless st. (bimetallic)
10	Bolts	Stainless steel A2-70
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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.

**FLOW DIRECTION**



ORDERING CODES FLT47										
Model	A47	2	V	XX	X	X	IR	A	40	
FLT47 – A351 CF8M / 1.4408 stainless steel	A47									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
21 bar		4								
32 bar		5								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None						XX				
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)						10				
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None							X			
With steam lock release assembled							S			
<b>FLL - Float lifting lever</b>										
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		
<b>Flow direction</b>										
Horizontal from right to left (standard)							IR			
Horizontal from left to right							IL			
Vertical from top to bottom							IT			
<b>Pipe connections</b>										
Female threaded ISO 7 Rp								A		
Female threaded NPT								C		
Socket weld ASME B16.11								H		
Flanged EN 1092-1 PN 40								N		
Flanged ASME B16.5 Class 150								U		
Flanged ASME B16.5 Class 300								V		
<b>Size</b>										
11/2" or DN 40									40	
2" or DN 50									50	
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										E

**FLOAT AND THERMOSTATIC STEAM TRAPS  
FLT49  
(Stainless steel 2"; DN 50)**

**DESCRIPTION**

The FLT49 is a range 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 and high flow capacities are involved.

**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:** FLT49-4,5 , 10 , 21 and 32 – stainless steel.

**SIZES:** 2"; DN 50.

**CONNECTIONS:** Flanged EN 1092-1 PN 40.  
Flanged ASME B16.5 Class 150 or 300.

**INSTALLATION:** Horizontal or vertical installation.

**MAX. ΔP:** FLT49-4,5 – 4,5 bar  
FLT49-10 – 10 bar  
FLT49-21 – 21 bar  
FLT49-32 – 32 bar



**CE MARKING – GROUP 2 (PED – European Directive)**

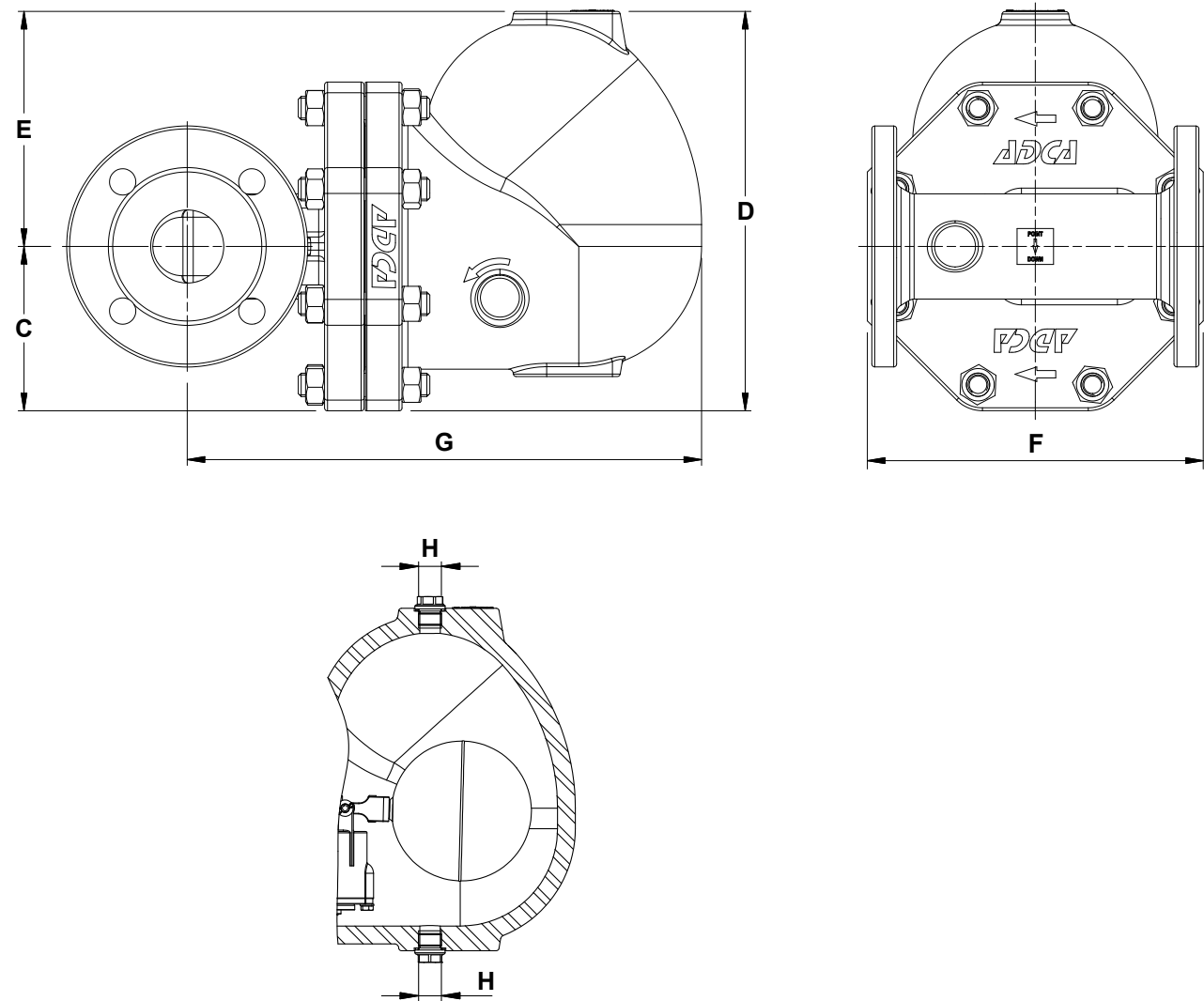
PN 40	Category
2" – DN 50	1 (CE marked)

BODY LIMITING CONDITIONS		
FLANGED PN 40 / CLASS 300 *	FLANGED CLASS 150 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
40 bar	16,3 bar	100 °C
33,7 bar	13,5 bar	200 °C
31,8 bar	12,1 bar	250 °C
29,7 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.

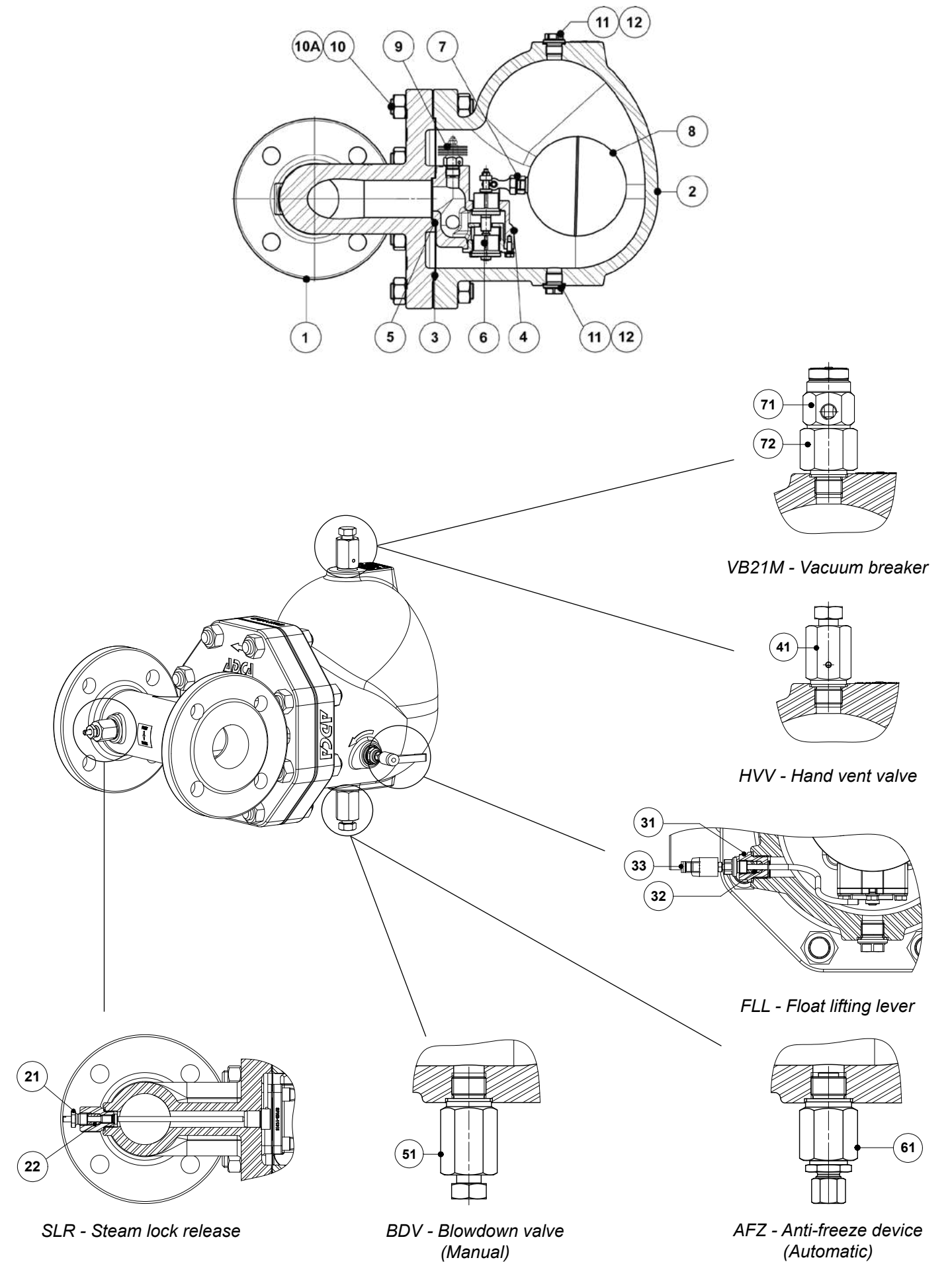


FLOW RATE CAPACITY (kg/h)														
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT49-4,5	2" - DN 50	7550	11000	14000	15500	22500	-	-	-	-	-	-	-	-
FLT49-10	2" - DN 50	3900	5000	6100	7100	10000	13750	16000	-	-	-	-	-	-
FLT49-21	2" - DN 50	1900	2700	3100	3600	5000	6900	8100	9000	9800	10050	11150	-	-
FLT49-32	2" - DN 50	1900	2700	3100	3600	5000	6900	8100	9000	9800	10050	11150	12000	12550



DIMENSIONS (mm)									
SIZE	PN 40							CLASS 150	CLASS 300
	C	D	E	H*	F	G	WEIGHT (kg)	WEIGHT (kg)	WEIGHT (kg)
2" - DN 50	80	215	136	3/8"	230	352	40,8	39,9	40,4

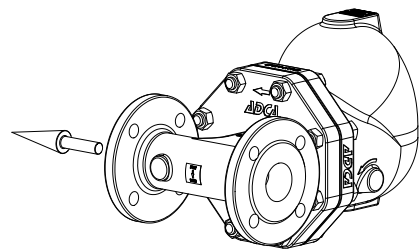
\* As standard, in versions with EN flanges, these connections are female threaded ISO 228. In versions with ASME flanges, these connections are female threaded NPT.



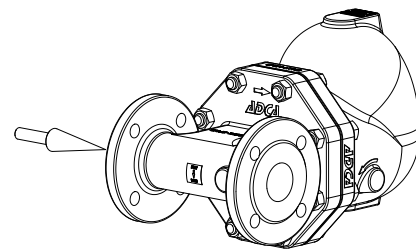
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	A351 CF8M / 1.4408
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless st. (bimetallic)
10	Studs	Stainless steel A2-70
10A	Nuts	Stainless steel A2-70
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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.

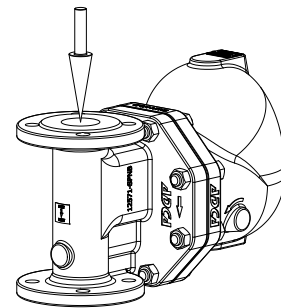
**FLOW DIRECTION**



IR - Horizontal from right to left



IL - Horizontal from left to right



IT - Vertical from top to bottom

ORDERING CODES FLT49										
Model	A49	2	V	XX	X	X	IR	N	50	
FLT49 – A351 CF8M / 1.4408 stainless steel	A49									
<b>Differential pressure</b>										
4,5 bar		2								
10 bar		3								
21 bar		4								
32 bar		5								
<b>Automatic air vent</b>										
Bimetallic air vent (standard)			V							
None			X							
<b>Cover connections</b>										
None				XX						
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10						
<b>Options</b>										
If any, these have specific separate ordering codes, please refer to the appropriate documentation.										
<b>SLR - Steam lock release</b>										
None					X					
With steam lock release assembled					S					
<b>FLL - Float lifting lever</b>										
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				
<b>Flow direction</b>										
Horizontal from right to left (standard)							IR			
Horizontal from left to right							IL			
Vertical from top to bottom							IT			
<b>Pipe connections</b>										
Flanged EN 1092-1 PN 40									N	
Flanged ASME B16.5 Class 150									U	
Flanged ASME B16.5 Class 300									V	
<b>Size</b>										
2" or DN 50										50
<b>Special valves / Extras</b>										
Full description or additional codes have to be added in case of a non-standard combination										
										E

**FLOAT AND THERMOSTATIC STEAM TRAPS**  
**FLT49TW**  
**(Stainless steel 3" – 4"; DN 80 – 100)**

**DESCRIPTION**

The FLT49TW is a range of high capacity 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 and high flow capacities are involved.

**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.  
HVV – Hand vent valve.  
BDV – Blowdown valve.  
AFZ – Anti-freeze device.  
VB21M – Vacuum breaker.

**USE:** Saturated and superheated steam.

**AVAILABLE MODELS:** FLT49TW-4,5 , 10 , 21 and 32 – stainless steel.

**SIZES:** 3" to 4"; DN 80 to DN 100.

**CONNECTIONS:** Flanged EN 1092-1 PN 16 or PN 40.  
Flanged ASME B16.5 Class 150 or 300.

**INSTALLATION:** Horizontal or vertical installation.

**MAX. ΔP:** FLT49TW-4,5 – 4,5 bar  
FLT49TW-10 – 10 bar  
FLT49TW-21 – 21 bar  
FLT49TW-32 – 32 bar



**CE MARKING – GROUP 2 (PED – European Directive)**

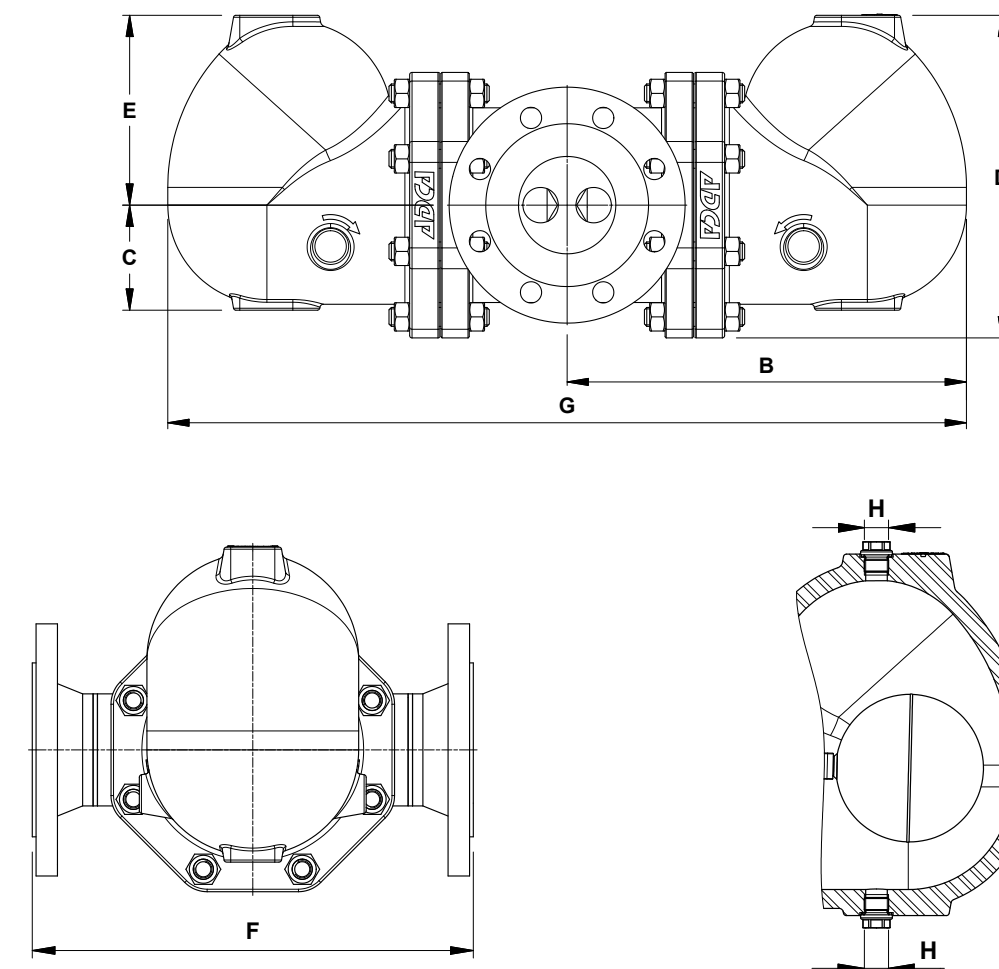
PN 16	PN 40	Category
3" to 4" DN 80 to 100	–	1 (CE marked)
–	3" to 4" DN 80 to 100	2 (CE marked)

BODY LIMITING CONDITIONS				
FLANGED PN 16 *	FLANGED PN 40 *	FLANGED CLASS 150 **	FLANGED CLASS 300 **	RELATED TEMP.
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
15,1 bar	37,9 bar	13,3 bar	34,4 bar	100 °C
12,7 bar	31,8 bar	11,1 bar	28,8 bar	200 °C
11,9 bar	29,9 bar	10,2 bar	26,6 bar	250 °C
11 bar	27,6 bar	9,7 bar	25,2 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.

**FLOW RATE CAPACITY (kg/h)**

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)												
		0,5	1	1,5	2	4,5	7	10	12	14	16	21	25	32
FLT49TW-4,5	3" to 4" – DN 80 to 100	15100	22000	28000	31000	45000	–	–	–	–	–	–	–	–
FLT49TW-10	3" to 4" – DN 80 to 100	7800	10000	12200	14200	20000	27500	32000	–	–	–	–	–	–
FLT49TW-21	3" to 4" – DN 80 to 100	3800	5400	6200	7200	10000	13800	16200	18000	19600	20100	22300	–	–
FLT49TW-32	3" to 4" – DN 80 to 100	3800	5400	6200	7200	10000	13800	16200	18000	19600	20100	22300	24000	25100

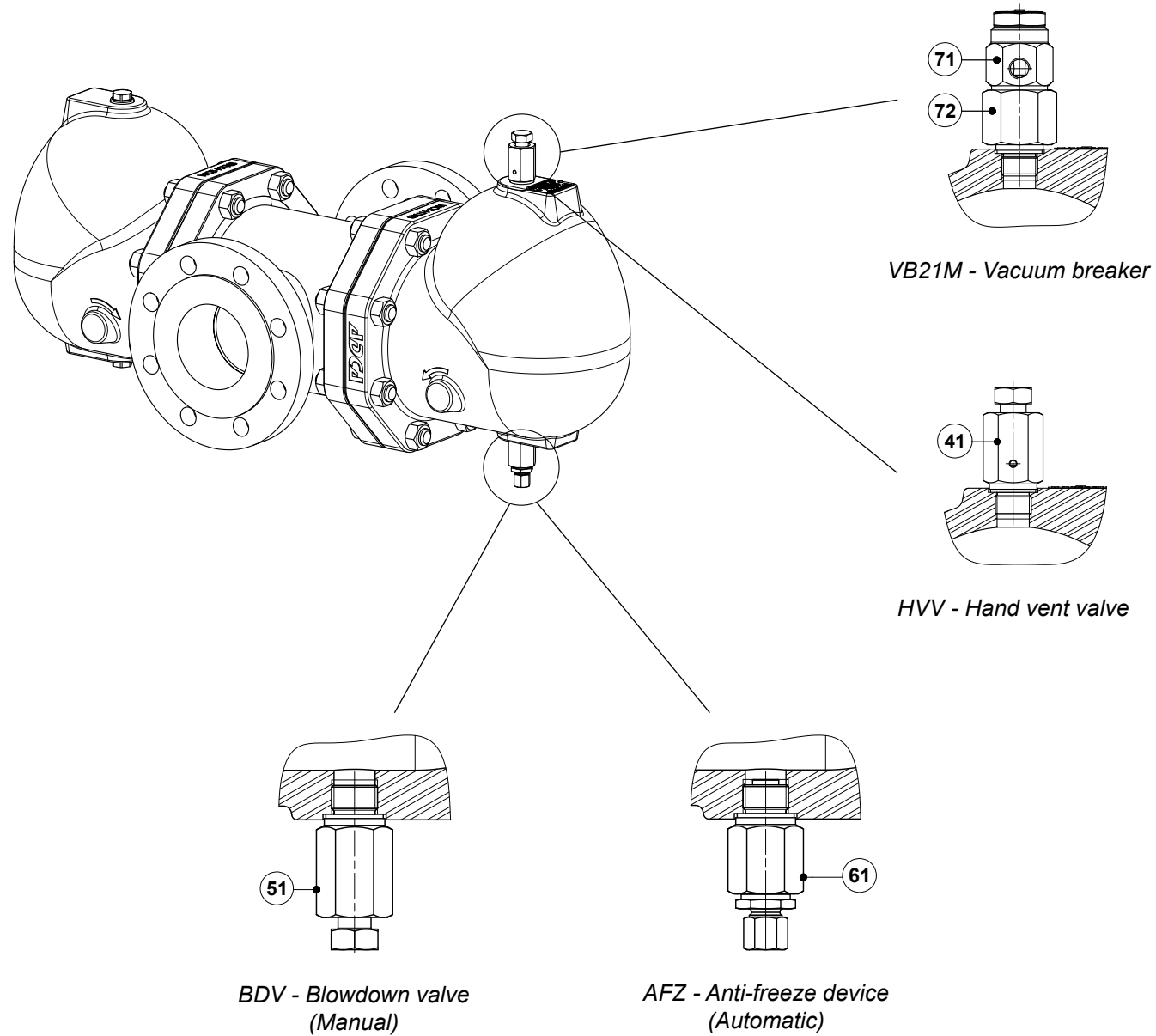
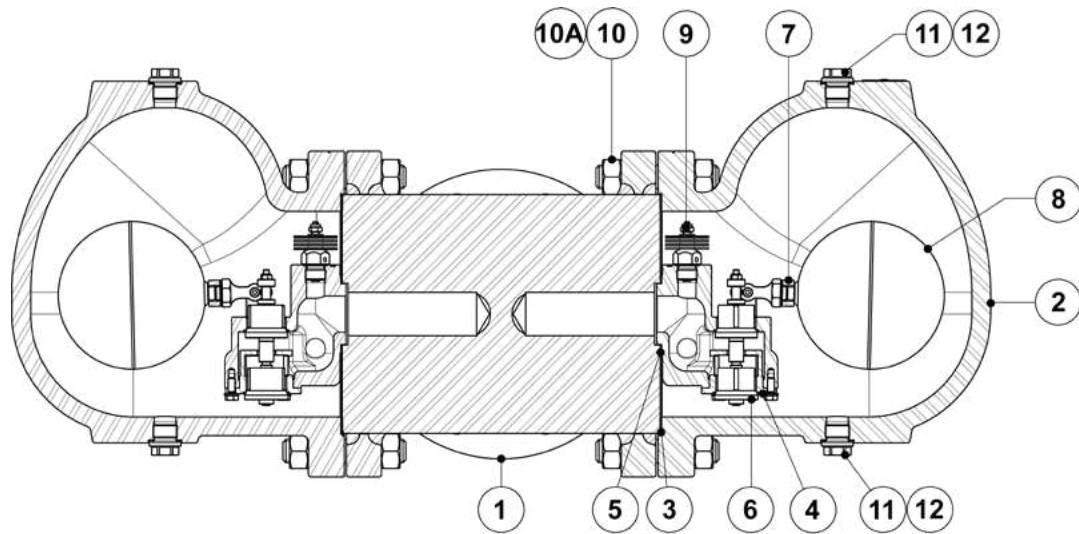


**DIMENSIONS (mm)**

SIZE	PN 16								PN 40	CLASS 150	CLASS 300
	B	C	D	E	F	G	H *	WEIGHT (kg)	WEIGHT (kg)	WEIGHT (kg)	WEIGHT (kg)
3" – DN 80	339	113	273	161	350	677	3/8"	90,8	92,4	92	96
4" – DN 100	339	113	273	161	350	677	3/8"	90,3	93,8	94	102,5

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

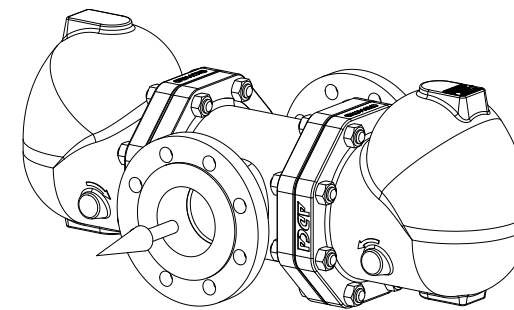




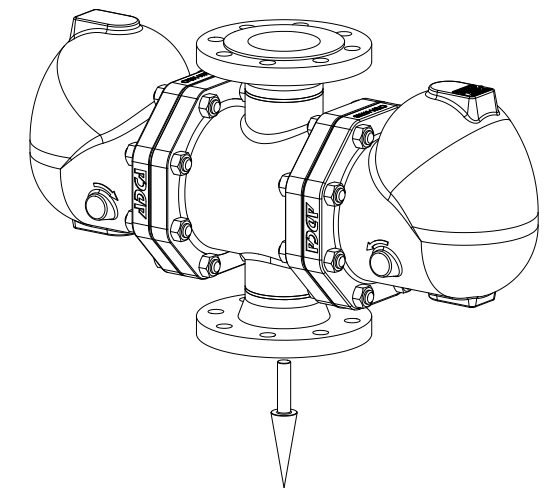
MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	AISI 304 / 1.4301; AISI 316L / 1.4404
2	Cover	A351 CF8M / 1.4408
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308; A276-98B / 1.4057
5	* Gasket	Graphite
6	* Valve	AISI 316 / 1.4401; AISI 420 / 1.4021
7	* Lever	A351 CF8M / 1.4408
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless st. (bimetallic)
10	Studs	Stainless steel A2-70
10A	Nuts	Stainless steel A2-70
11	Plug	AISI 316L / 1.4404
12	** Gasket	Copper; AISI 304 / 1.4301
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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.

**FLOW DIRECTION**



IH - Horizontal



IT - Vertical from top to bottom

ORDERING CODES FLT49TW									
Model	A49T	2	V	XX	IH	L	80	E	
FLT49TW – A351 CF8M / 1.4408 stainless steel	A49T								
<b>Differential pressure</b>									
4,5 bar		2							
10 bar		3							
21 bar		4							
32 bar		5							
<b>Automatic air vent</b>									
Bimetallic air vent (standard)			V						
None			X						
<b>Cover connections</b>									
None				XX					
3/8" threaded connections on top and bottom, closed with plugs (mandatory if any options are considered)				10					
<b>Options</b>									
HVV, BDV, AFZ and VB21M have specific separated ordering codes, please refer to the appropriate documentation.									
<b>Flow direction</b>									
Horizontal					IH				
Vertical from top to bottom					IT				
<b>Pipe connections</b>									
Flanged EN 1092-1 PN 16						L			
Flanged EN 1092-1 PN 40						N			
Flanged ASME B16.5 Class 150						U			
Flanged ASME B16.5 Class 300						V			
<b>Size</b>									
3" or DN 80							80		
4" or DN 100							100		
<b>Special valves / Extras</b>									
Full description or additional codes have to be added in case of a non-standard combination									E

**FLOAT AND THERMOSTATIC STEAM TRAPS**  
**FLT17 - FLT32 - FLT14I**  
**SLR Assembly (optional)**

**DESCRIPTION**

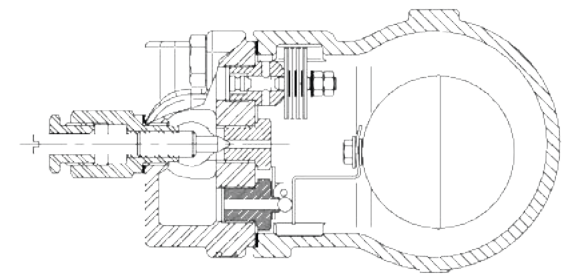
In siphon drip tubes connected to rotating cylinders or long drain lines a steam pocket may form and so the condensate does not reach the trap.

This condition is normally known as steam locking and when float and thermostatic steam traps are used it is necessary to prevent the problem.

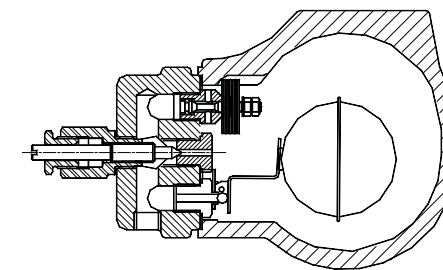
The SLR - Steam Lock Release should be requested to bleed away that steam.

All the ADCA float and thermostatic steam traps can be supplied with the SLR and some can even be supplied with both SLR and air vent.

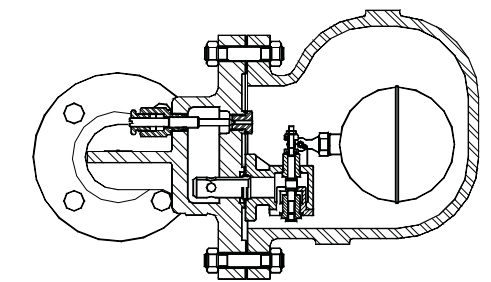
FLT17, FLT32 and FLT14I series can be supplied with air eliminator (standard), with SLR or with both air vent and SLR on request.



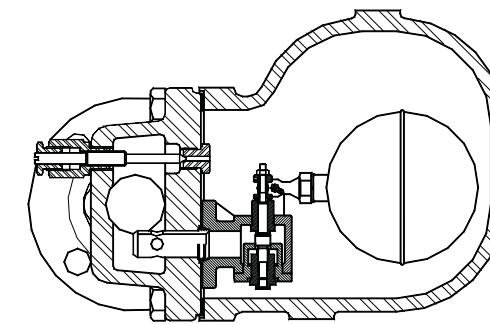
FLT17LC / FLT4I DN 15 - DN 20



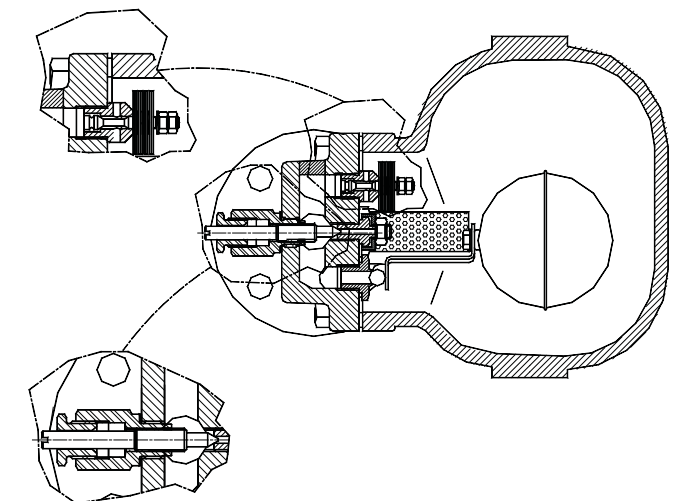
FLT17 / FLT32 / FLT4I DN 15 - DN 25



FLT17 DN 50HC



FLT17 / FLT32 / FLT4I DN 40 - DN 50



FLT17 / FLT32 / FLT4I DN 25HC

## FLOAT AND THERMOSTATIC STEAM TRAPS FLT22

### DESCRIPTION

The FLT22 is a series of high capacity float and thermostatic steam traps with integral air vent, designed for modulating discharge of condensate to ensure maximum system heat transfer. Specially designed for applications where continuous drainage is essential and high loads are involved.

### MAIN FEATURES

High capacity.  
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.

USE: Saturated and superheated steam.

AVAILABLE MODELS: FLT22S-4,5, 10, 14 and 21 – carbon steel.  
FLT22SS-4,5, 10, 14 and 21 – stainless steel.

SIZES: 1 1/2" and 2"; DN 40 and DN 50.

CONNECTIONS: Female threaded ISO 7 Rp or NPT.  
Flanged EN 1092-1 PN 25.  
Flanged ASME B16.5 Class 150 or 300.

INSTALLATION: Horizontal installation from right to left (R-L).  
See IMI – Installation and maintenance instructions.  
On request: Horizontal installation from left to right (L-R) or vertical from top to bottom (V).

MAX. ΔP: FLT22S-4,5 – 4,5 bar  
FLT22S-10 – 10 bar  
FLT22S-14 – 14 bar  
FLT22S-21 – 21 bar  
Remark: the same figures are valid for the FLT22SS.



CE MARKING – GROUP 2 (PED – European Directive)	
PN 25	Category
1 1/2" to 2" – DN 40 to 50	1 (CE marked)

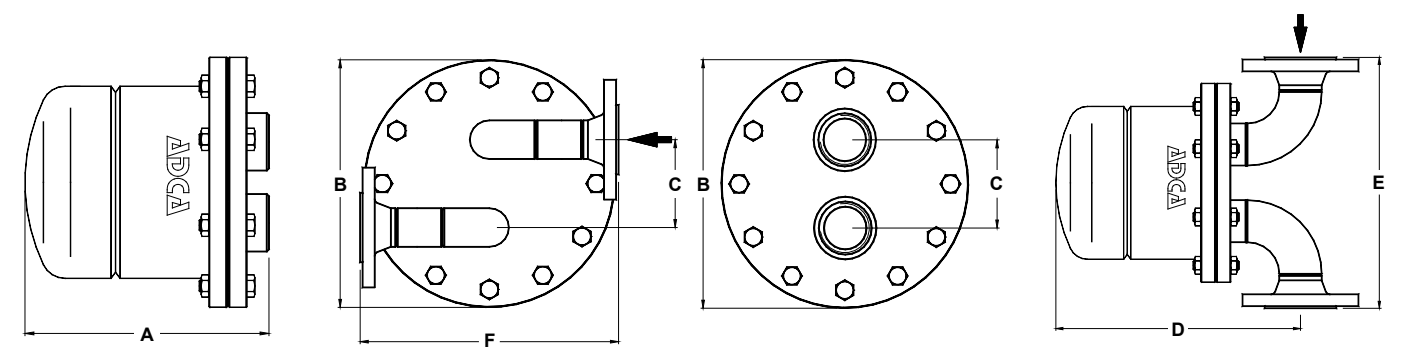
FLOW RATE CAPACITY (kg/h)													
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)											
		0,5	0,7	1	1,5	2	4,5	7	10	12	14	16	21
FLT22S-4,5	1 1/2" – DN 40	2400	2800	3400	3900	4500	7300	–	–	–	–	–	–
FLT22S-10	1 1/2" – DN 40	1500	1750	2000	2600	3000	4000	5400	6200	–	–	–	–
FLT22S-14	1 1/2" – DN 40	950	1100	1300	1600	1800	2600	3250	3900	4210	4950	–	–
FLT22S-21	1 1/2" – DN 40	950	1100	1300	1600	1800	2600	3250	3900	4210	4950	5000	5600
FLT22S-4,5	2" – DN 50	7550	9050	11000	14000	15500	22500	–	–	–	–	–	–
FLT22S-10	2" – DN 50	3900	4450	5000	6100	7100	10000	13750	16000	–	–	–	–
FLT22S-14	2" – DN 50	1900	2300	2700	3100	3600	5000	6900	8100	9000	9800	–	–
FLT22S-21	2" – DN 50	1900	2300	2700	3100	3600	5000	6900	8100	9000	9800	10000	12050

Remark: the same figures are valid for the FLT22SS.

### BODY LIMITING CONDITIONS

FLT22S		FLT22SS		RELATED TEMPERATURE
FLANGED PN 25 / CLASS 300 *	FLANGED CLASS 150 **	FLANGED PN 25 / CLASS 300 *	FLANGED CLASS 150 **	
ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	ALLOWABLE PRESSURE	
23,2 bar	15,4 bar	23,6 bar	15,3 bar	100 °C
20,8 bar	13,8 bar	19,8 bar	11,1 bar	200 °C
19 bar	12,1 bar	18,6 bar	10,2 bar	250 °C
17,2 bar	10,2 bar	17,2 bar	9,7 bar	300 °C

PMO – Max. operating pressure: 21 bar; TMO – Max. operating temperature: 250 °C; \* Acc. to EN 1092-1:2018; \*\* Acc. to EN 1759-1:2004.  
Body limiting conditions PN 25 or below, depending on the type of connection adopted. Rating PN 25 for threaded connections.



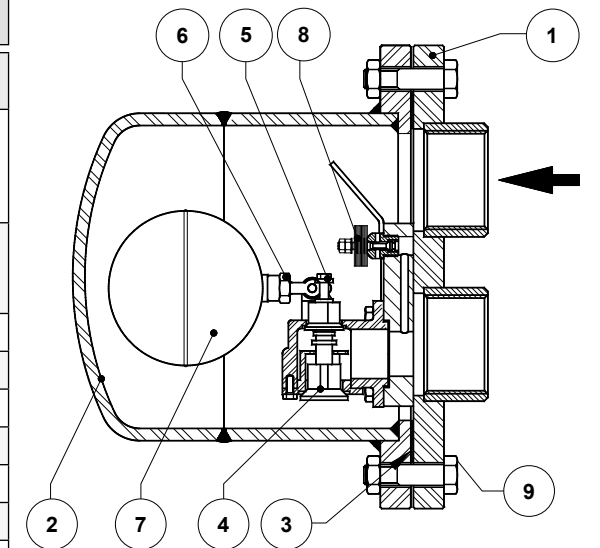
### DIMENSIONS (mm)

SIZE	THREADED				PN 25				CLASS 150				CLASS 300			
	A	B	C	WGT. (kg)	D	E	F	WGT. (kg)	D	E	F	WGT. (kg)	D	E	F	WGT. (kg)
1 1/2" – DN 40	290	310	110	41	355	320	320	43	355	320	320	47	355	320	320	50
2" – DN 50	290	310	110	42	355	360	320	45	355	390	350	50	355	403	365	52

### MATERIALS

POS. N°	DESIGNATION	FLT22S	FLT22SS
1	Body	P250GH / 1.0460; P235GH / 1.0345; S355JR / 1.0045; S235JR / 1.0038	AISI 316 / 1.4401; AISI 304 / 1.4301
2	Cover	P235GH / 1.0345; P265GH / 1.0425; S355JR / 1.0045	AISI 316 / 1.4401; AISI 304 / 1.4301
3	* Gasket	Graphite	Graphite
4	* Seat	A351 CF8 / 1.4308	A351 CF8 / 1.4308
5	* Valve	AISI 420 / 1.4021	AISI 420 / 1.4021
6	* Lever	AISI 304 / 1.4301	AISI 304 / 1.4301
7	* Float	AISI 304 / 1.4301	AISI 304 / 1.4301
8	* Air vent	Stainless st. (bimetallic)	Stainless st. (bimetallic)
9	Bolts	Steel 8.8	Stainless steel A2-70

\* Available spare parts.





## FLOAT AND THERMOSTATIC STEAM TRAPS FLT50 and FLT65

### DESCRIPTION

The FLT50S and FLT65S float and thermostatic steam traps series (with integral air vent) are designed for all types of low and high pressure steam heating and process equipment. Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.

### MAIN FEATURES

Modulating discharge.  
Discharges condensate at steam temperature.  
Unaffected by sudden or wide load and pressure changes.  
Excellent air discharge (by thermostatic air vent).

OPTIONS: Equalizing plug or vent connection.

USE: Saturated and superheated steam.

AVAILABLE MODELS: FLT50S and FLT65S – carbon steel.

SIZES: FLT50S – 2" to 21/2"; DN 50 to DN 65.  
FLT65S – 21/2" to 4"; DN 65 to DN 100.

CONNECTIONS: Flanged EN 1092-1 PN 16.  
Flanged ASME B16.5 Class 150.

INSTALLATION: Horizontal standard installation with vertical inlet and horizontal outlet.  
See IMI – Installation and maintenance instructions.

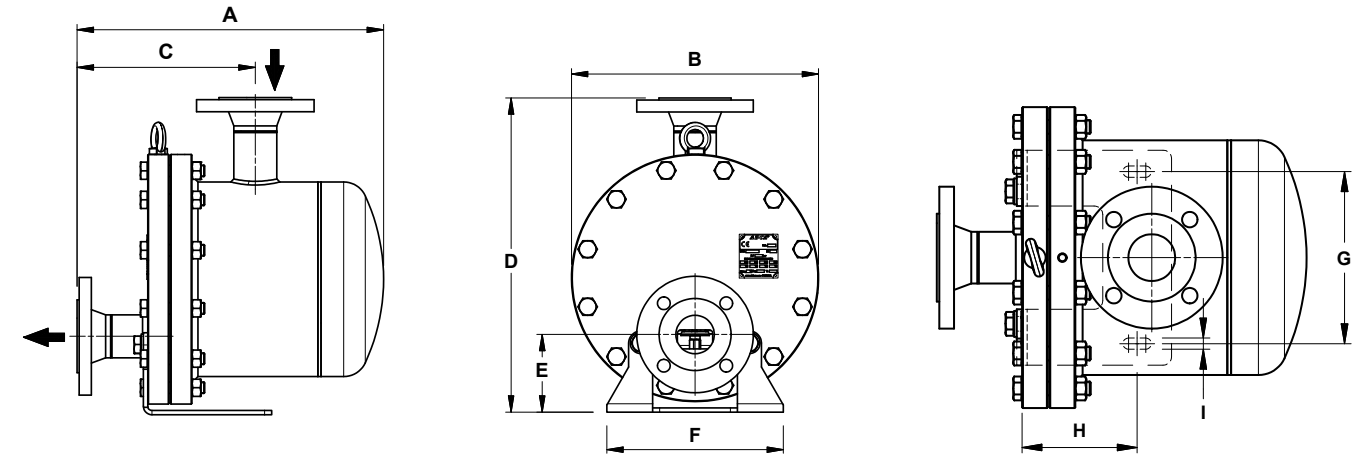


BODY LIMITING CONDITIONS *	
FLANGED PN 16 / CLASS 150 ALLOWABLE PRESSURE	RELATED TEMPERATURE
14,8 bar	100 °C
13,3 bar	200 °C
12,1 bar	250 °C
11 bar	300 °C

PMO – Max. operating pressure: 12 bar.  
TMO – Max. operating temperature: 250 °C.  
\* According to EN 1092-1:2018.

CE MARKING – GROUP 2 (PED – European Directive)	
PN 16	Category
2" to 4" – DN 50 to 100	2 (CE marked)

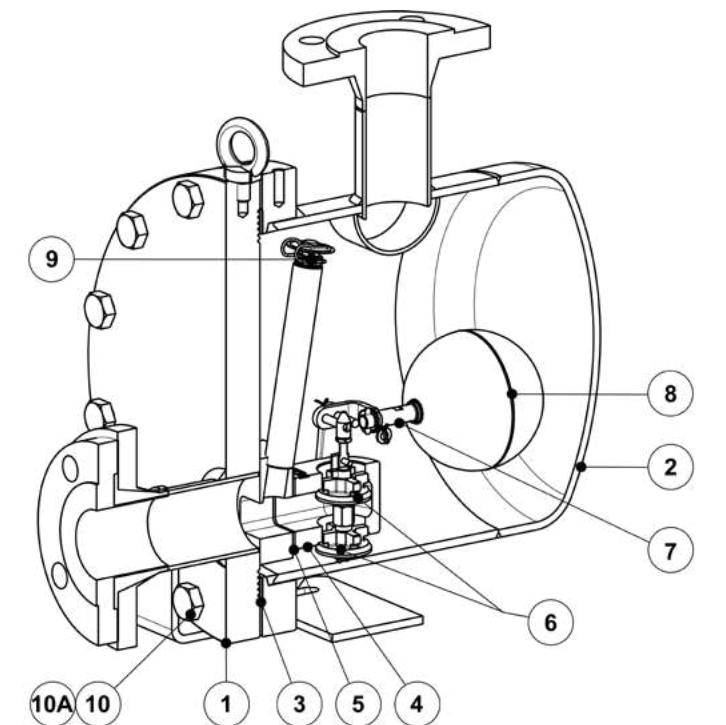
FLOW RATE CAPACITY (kg/h)		DIFFERENTIAL PRESSURE (bar)															
MODEL	SIZE	0,1	0,3	0,5	1	1,5	2	2,5	3	3,5	4	5	6	7	8	10	12
FLT50S	2" to 21/2" DN 50 to 65	7500	10000	11300	12500	13500	15000	16000	17500	18500	20000	20500	21500	22000	22500	23000	23500
FLT65S	21/2" to 4" DN 65 to 100	18800	22700	24500	29000	31000	34000	37000	38000	39500	42000	43500	45500	47000	48000	49500	50000



DIMENSIONS (mm)													
MODEL	SIZE	A PN 16	A CL. 150	B	C PN 16	C CL. 150	D	E	F	G	H	I	WEIGHT (kg)
FLT50S	2" – DN 50	430	445	350	250	265	445	110	250	200	134	13	57
FLT50S	21/2" – DN 65	460	485	350	280	305	445	110	250	200	134	13	58,2
FLT65S	21/2" – DN 65	475	500	440	255	280	535	125	310	250	134	13	92
FLT65S	3" – DN 80	506	526	440	286	306	535	125	310	250	134	13	93,5
FLT65S	4" – DN 100	520	544	440	300	324	535	125	310	250	134	13	96

MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P235GH / 1.0345; P250GH / 1.0460; S235JR / 1.0038; S355JR / 1.0045; A105 / 1.0432
2	Cover	P235GH / 1.0345; P250GH / 1.0460; P265GH / 1.0425; S355JR / 1.0045; A105 / 1.0432
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308
5	* Gasket	Stainless steel / Graphite
6	* Valve	AISI 420 / 1.4021; A351 CF8M / 1.4408
7	* Lever	AISI 316 / 1.4401; AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel (thermostatic)
10	Bolts	Steel 8.8
10A	Nuts	Steel 8.8

\* Available spare parts.



## FLOAT AND THERMOSTATIC STEAM TRAPS FLT80

### DESCRIPTION

The FLT80S float and thermostatic steam traps series (with integral air vent) are designed for all types of low and high pressure steam heating and process equipment. Typical applications include unit heaters, heat exchangers, driers, jacketed vessels and all the applications where continuous drainage is essential.

### MAIN FEATURES

Modulating discharge.  
Discharges condensate at steam temperature.  
Unaffected by sudden or wide load and pressure changes.  
Excellent air discharge (by thermostatic air vent).

OPTIONS: Equalizing plug or vent connection.

USE: Saturated and superheated steam.

AVAILABLE MODELS: FLT80S – carbon steel.

SIZES: 3" and 4"; DN 80 and DN 100.

CONNECTIONS: Flanged EN 1092-1 PN 16.  
Flanged ASME B16.5 Class 150.

INSTALLATION: Horizontal standard installation with vertical inlet and horizontal outlet.  
See IMI – Installation and maintenance instructions.

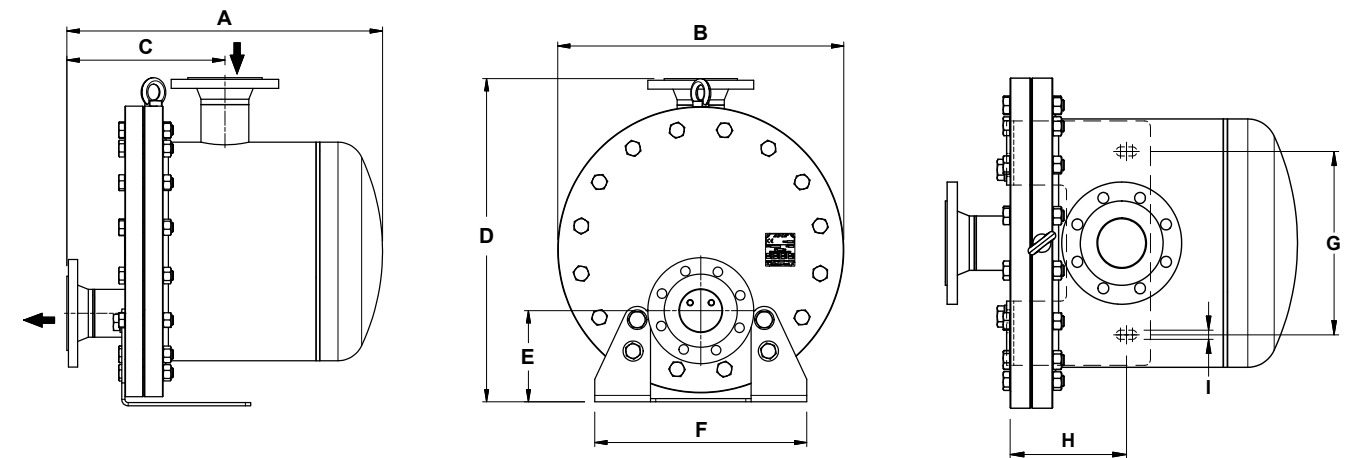


BODY LIMITING CONDITIONS *	
FLANGED PN 16 / CLASS 150 ALLOWABLE PRESSURE	RELATED TEMPERATURE
14,8 bar	100 °C
13,3 bar	200 °C
12,1 bar	250 °C
11 bar	300 °C

PMO – Max. operating pressure: 12 bar.  
TMO – Max. operating temperature: 250 °C.  
\* According to EN 1092-1:2018.

CE MARKING – GROUP 2 (PED – European Directive)	
PN 16	Category
3" and 4" – DN 80 and 100	2 (CE marked)

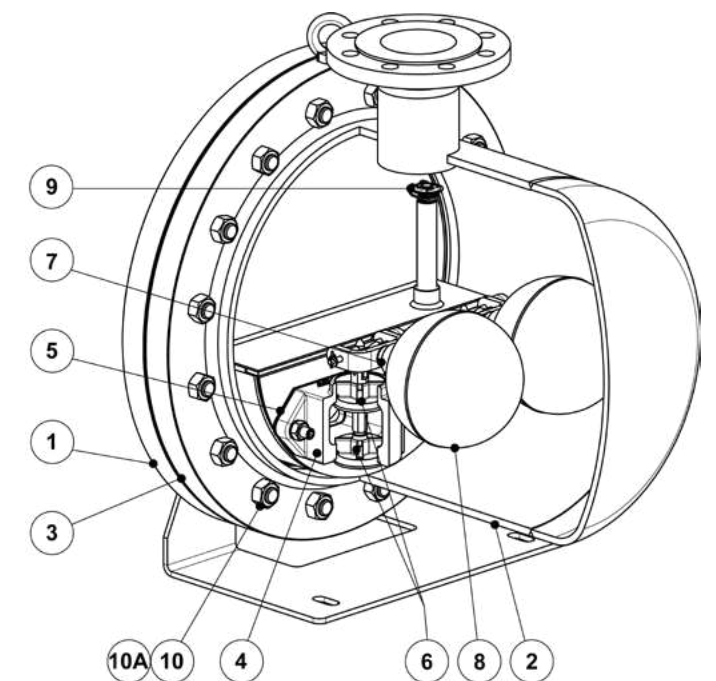
FLOW RATE CAPACITY (kg/h)		DIFFERENTIAL PRESSURE (bar)															
MODEL	SIZE	0,1	0,3	0,5	1	1,5	2	2,5	3	3,5	4	5	6	7	8	10	12
		FLT80S	3" to 4" DN 80 to 100	37600	45400	49000	58000	62000	68000	74000	76000	79000	84000	87000	91000	94000	96000



DIMENSIONS (mm)													
MODEL	SIZE	A PN 16	A CL. 150	B	C PN 16	C CL. 150	D	E	F	G	H	I	WEIGHT (kg)
FLT80S	3" – DN 80	587	607	540	294	314	610	172	400	300	194	15	159
FLT80S	4" – DN 100	634	658	540	341	365	610	172	400	300	194	15	161

MATERIALS		
POS. Nº	DESIGNATION	MATERIAL
1	Body	P235GH / 1.0345; P250GH / 1.0460; S235JR / 1.0038; S355JR / 1.0045; A105 / 1.0432
2	Cover	P235GH / 1.0345; P250GH / 1.0460; P265GH / 1.0425; S355JR / 1.0045; A105 / 1.0432
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308
5	* Gasket	Stainless steel / Graphite
6	* Valve	AISI 420 / 1.4021; A351 CF8M / 1.4408
7	* Lever	AISI 316 / 1.4401; AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel (thermostatic)
10	Bolts	Steel 8.8
10A	Nuts	Steel 8.8

\* Available spare parts.



**FLOAT AND THERMOSTATIC STEAM TRAPS  
FLT151**

**DESCRIPTION**

The FLT151 is a series of high capacity float and thermostatic steam traps with integral air vent, designed for modulating discharge of condensate to ensure maximum system heat transfer. Specially designed for applications where continuous drainage is essential and extremely high loads are involved, such as those found in sugar and alcohol refineries.

**MAIN FEATURES**

High capacity.  
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 thermostatic air vent.

**OPTIONS:** Level gauge.  
HVV – Hand vent valve.  
VB21M – Vacuum breaker.

**USE:** Saturated steam.

**AVAILABLE MODELS:** FLT151S-O – carbon steel.

**SIZES:** 4" and 6"; DN 100 and DN 150.

**CONNECTIONS:** Flanged EN 1092-1 PN 16.  
Flanged ASME B16.5 Class 150.

**INSTALLATION:** Horizontal installation.  
See IMI – Installation and maintenance instructions.



**CE MARKING – GROUP 2 (PED – European Directive)**

PN 16	Category
4" and 6" – DN 100 and 150	3 (CE marked)

FLOW RATE CAPACITY WITH MECHANISM AND ORIFICE (kg/h)								
MODEL	ORIFICE N° ΔP (bar)	O1	O2	O3	O4	O5	O6	MAXIMUM ΔQ
		4" – DN 100				6" – DN 150		
FLT151S-O	0,1	22300	24100	26600	33700	43600	56400	18800
	0,3	27400	30300	34200	45400	61200	81400	22700
	0,7	32200	36200	41800	57700	79900	108600	26200
	1	34700	39500	46500	65800	93100	128100	27700
	1,4	37000	42600	50500	72900	104400	144900	29200
	2	40700	47600	57200	84800	144900	172900	31700

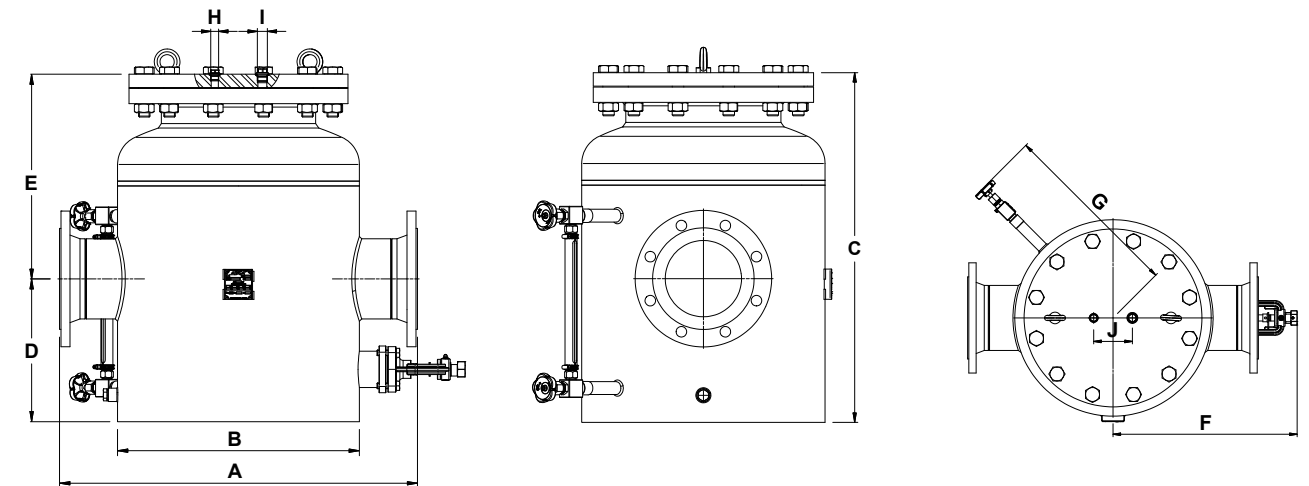
Example: One FLT151-O DN150-O5 (with orifice n° 5), operating at a D.P. of 0,3 bar, must have a minimum flow of 38500 kg/h (61200-22700).

FLOW RATE CAPACITY WITH MECHANISM ONLY (kg/h)																	
MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)															
		0,1	0,3	0,5	1	1,5	2	2,5	3	3,5	4	5	6	7	8	10	12
FLT151S-O	4" and 6" DN 100 and 150	18800	22700	24500	29000	31000	34000	37000	38000	39500	42000	43500	45500	47000	48000	49500	50000

**BODY LIMITING CONDITIONS \***

FLANGED PN 16 / CLASS 150 ALLOWABLE PRESSURE	RELATED TEMPERATURE
16 bar	50 °C
14,8 bar	100 °C
13,3 bar	200 °C
12,1 bar	250 °C

PMO – Maximum operating pressure: 12 bar.  
TMO – Maximum operating temperature: 250 °C.  
\* According to EN 1092-1:2018.



**DIMENSIONS (mm)**

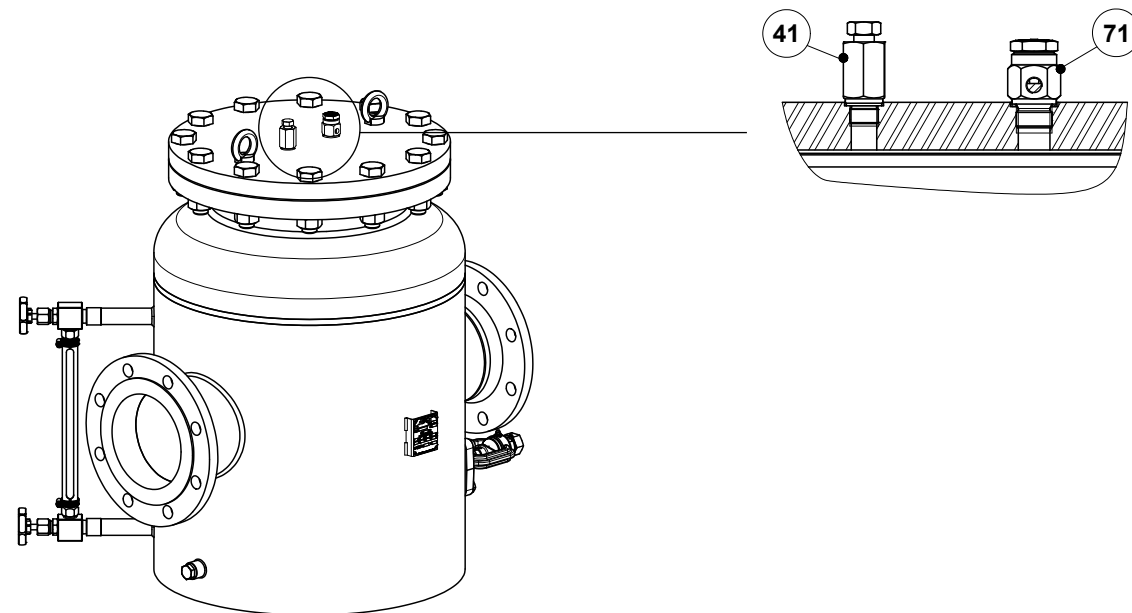
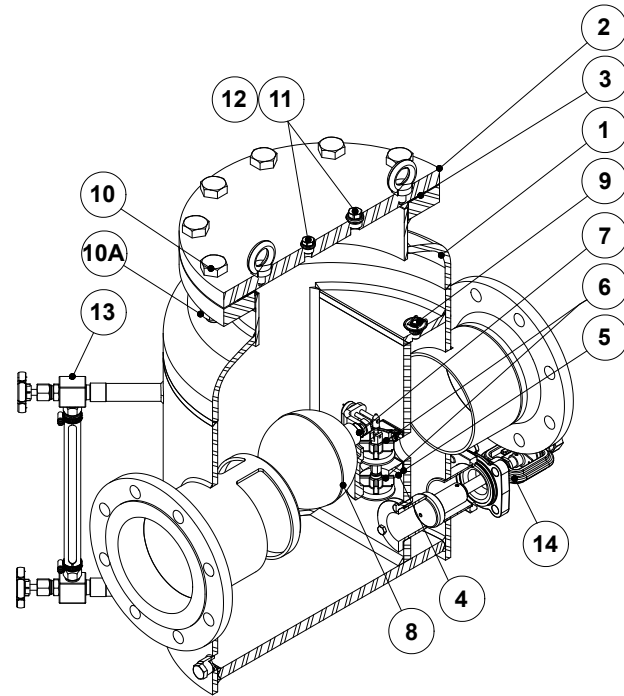
SIZE	A PN 16	A CLASS 150	B	C	D	E	F	G	H*	I*	J	WEIGHT (kg)
4" – DN 100	694	743	457	685	275	410	451	450	3/8"	1/2"	100	170
6" – DN 150	752	820	508	730	300	430	476	475	3/8"	1/2"	100	202

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



MATERIALS		
POS. Nº	DESIGNATION	MATERIAL
1	Body	P265GH / 1.0425; P235GH / 1.0345; S235JR / 1.0038; A105 / 1.0432
2	Cover	P250GH / 1.0460
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8 / 1.4308
5	* Gasket	Graphite
6	* Valve	AISI 420 / 1.4021; A351 CF8M / 1.4408
7	* Lever	AISI 316 / 1.4401; AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel (thermostatic)
10	Bolts	Steel 8.8
10A	Nuts	Steel 8.8
11	Plug	AISI 316L / 1.4404
12	** Gasket	Copper
13	Level gauges	Stainless steel; Borosilicate glass
14	By-pass valve	GJS-400-15 / 0.7040; AISI 304 / 1.4301; AISI 316 / 1.4401
41	Hand vent valve	AISI 303 / 1.4305; AISI 316L / 1.4404
71	Vacuum breaker	AISI 303 / 1.4305

\* Available spare parts; \*\* Not applicable in NPT version.



## FLOAT AND THERMOSTATIC STEAM TRAPS FLT312 and FLT314

### DESCRIPTION

The FLT312 and FLT314 are a series of high capacity float and thermostatic steam traps with integral air vent, designed for modulating discharge of condensate to ensure maximum system heat transfer. Specially designed for applications where continuous drainage is essential and high loads are involved.

### MAIN FEATURES

High capacity.  
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 thermostatic air vent.

OPTIONS:  
Equalizing (vent) and drain connections.  
HVV – Hand vent valve.  
BDV – Blowdown valve.  
AFZ – Anti-freeze device.  
VB21M – Vacuum breaker.

USE: Saturated and superheated steam.

AVAILABLE MODELS: FLT312S and FLT314S – carbon steel.

SIZES: FLT312S – 2"; DN 50.  
FLT314S – 2 1/2"; DN 65.

CONNECTIONS: Flanged EN 1092-1 PN 16.  
Flanged ASME B16.5 Class 150.

INSTALLATION: Horizontal installation.  
See IMI – Installation and maintenance instructions.



### CE MARKING – GROUP 2 (PED – European Directive)

PN 16	Category
2" and 2 1/2" – DN 50 and 65	2 (CE marked)

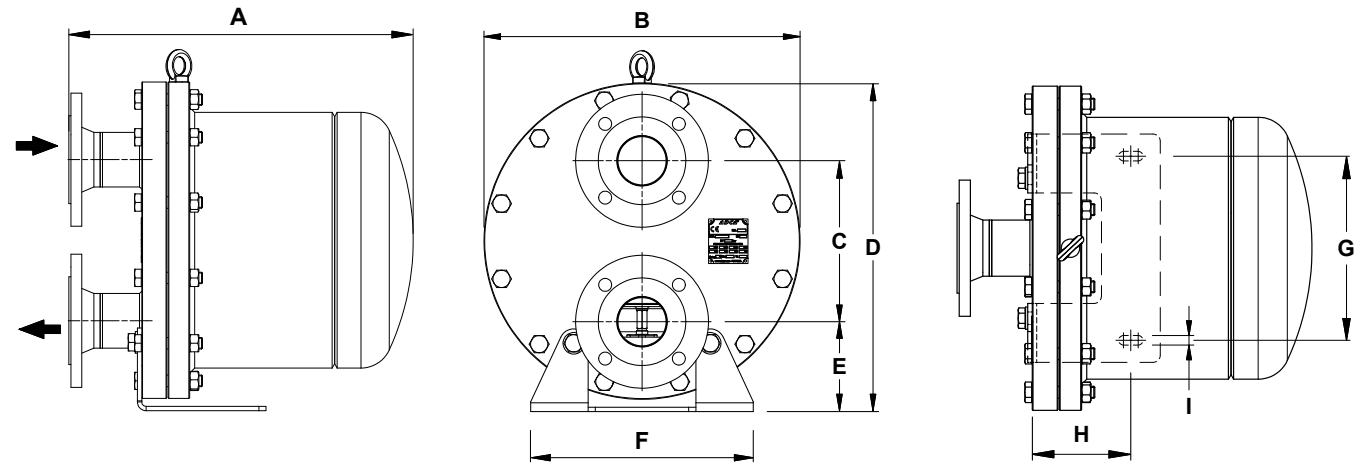
### BODY LIMITING CONDITIONS \*

FLANGED PN 16 / CLASS 150 ALLOWABLE PRESSURE	RELATED TEMPERATURE
14,8 bar	100 °C
13,3 bar	200 °C
12,1 bar	250 °C
11 bar	300 °C

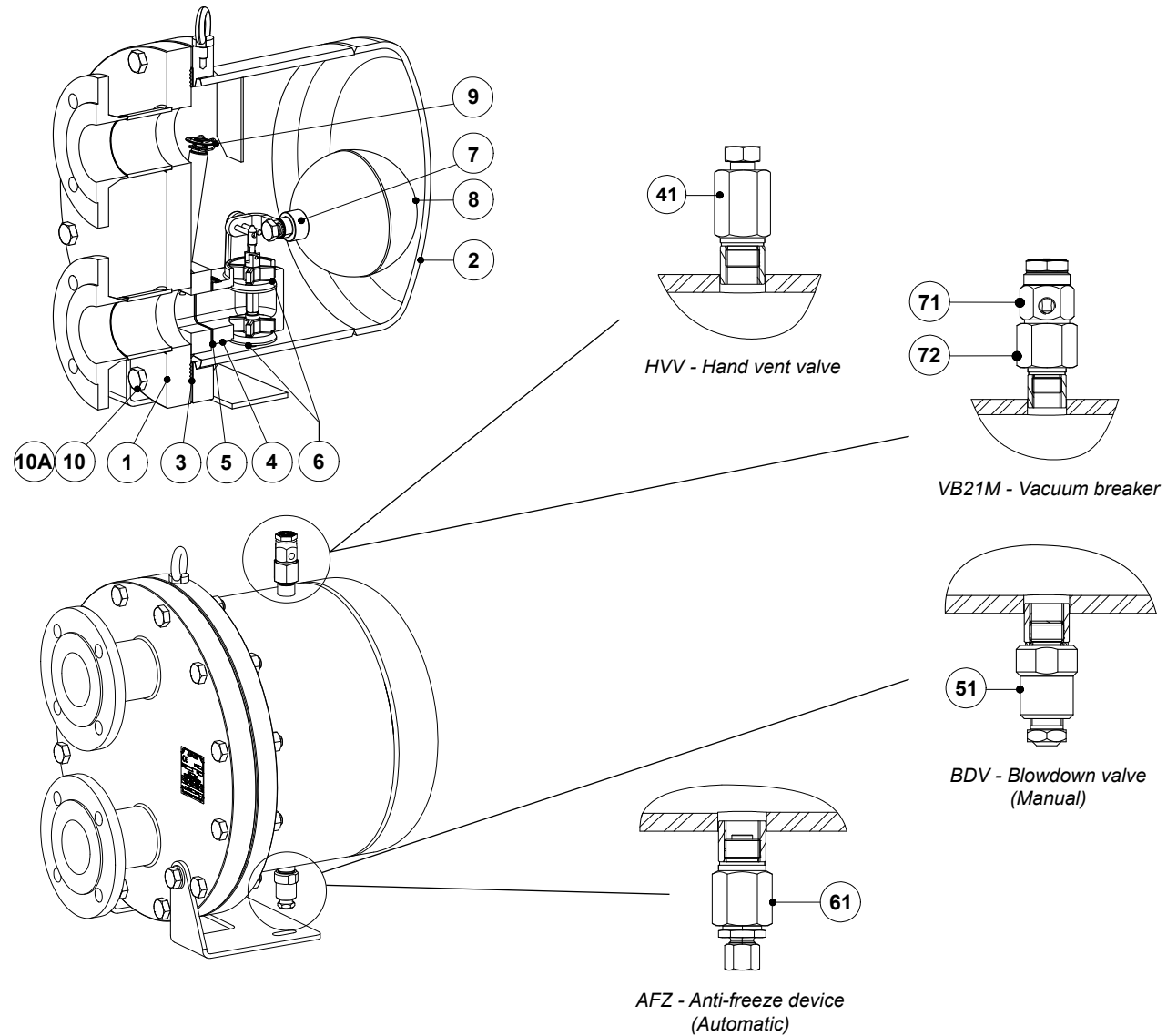
PMO – Max. operating pressure: 12 bar.  
TMO – Max. operating temperature: 250 °C.  
\* According to EN 1092-1:2018.

### FLOW RATE CAPACITY (kg/h)

MODEL	SIZE	DIFFERENTIAL PRESSURE (bar)															
		0,1	0,3	0,5	1	1,5	2	2,5	3	3,5	4	5	6	7	8	10	12
FLT312S	2" – DN 50	7500	10000	11300	12500	13500	15000	16000	17500	18500	20000	20500	21500	22000	22500	23000	23500
FLT314S	2 1/2" – DN 65	18800	22700	24500	29000	31000	34000	37000	38000	39500	42000	43500	45500	47000	48000	49500	50000



DIMENSIONS (mm)												
MODEL	SIZE	A PN 16	A CL. 150	B	C	D	E	F	G	H	I	WEIGHT (kg)
FLT312S	2" – DN 50	430	446	350	177	370	110	250	200	140	13	57
FLT314S	2 1/2" – DN 65	482	506	440	224	457	125	310	250	134	13	100



MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460; P235GH / 1.0345; S355JR / 1.0045; S235JR / 1.0038
2	Cover	P265GH / 1.0425; P235GH / 1.0345; S355JR / 1.0045; S235JR / 1.0038
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8M / 1.4408
5	* Gasket	Stainless steel / Graphite
6	* Valve	AISI 420 / 1.4021; A351 CF8M / 1.4408
7	* Lever	AISI 316 / 1.4401; AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel (thermostatic)
10	Bolts	Steel 8.8
10A	Nuts	Steel 8.8
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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts.

**FLOAT AND THERMOSTATIC STEAM TRAPS  
FLT314TW**

**DESCRIPTION**

The FLT314TW is a series of high capacity float and thermostatic steam traps with integral air vent, designed for modulating discharge of condensate to ensure maximum system heat transfer. Specially designed for applications where continuous drainage is essential and high loads are involved.

**MAIN FEATURES**

High capacity.  
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 thermostatic air vent.

**OPTIONS:** Equalizing (vent) and drain connections.  
HVV – Hand vent valve.  
BDV – Blowdown valve.  
AFZ – Anti-freeze device.  
VB21M – Vacuum breaker.

**USE:** Saturated and superheated steam.

**AVAILABLE MODELS:** FLT314STW – carbon steel.

**SIZES:** 3" – DN 80.

**CONNECTIONS:** Flanged EN 1092-1 PN 16.  
Flanged ASME B16.5 Class 150.

**INSTALLATION:** Horizontal installation.  
See IMI – Installation and maintenance instructions.

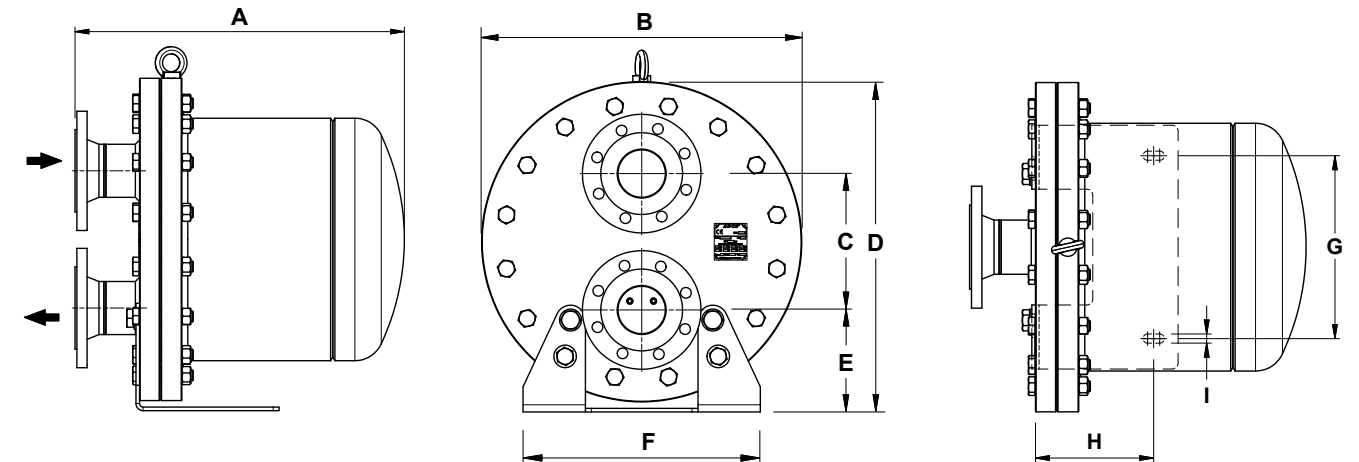


BODY LIMITING CONDITIONS *	
FLANGED PN 16 / CLASS 150 ALLOWABLE PRESSURE	RELATED TEMPERATURE
14,8 bar	100 °C
13,3 bar	200 °C
12,1 bar	250 °C
11 bar	300 °C

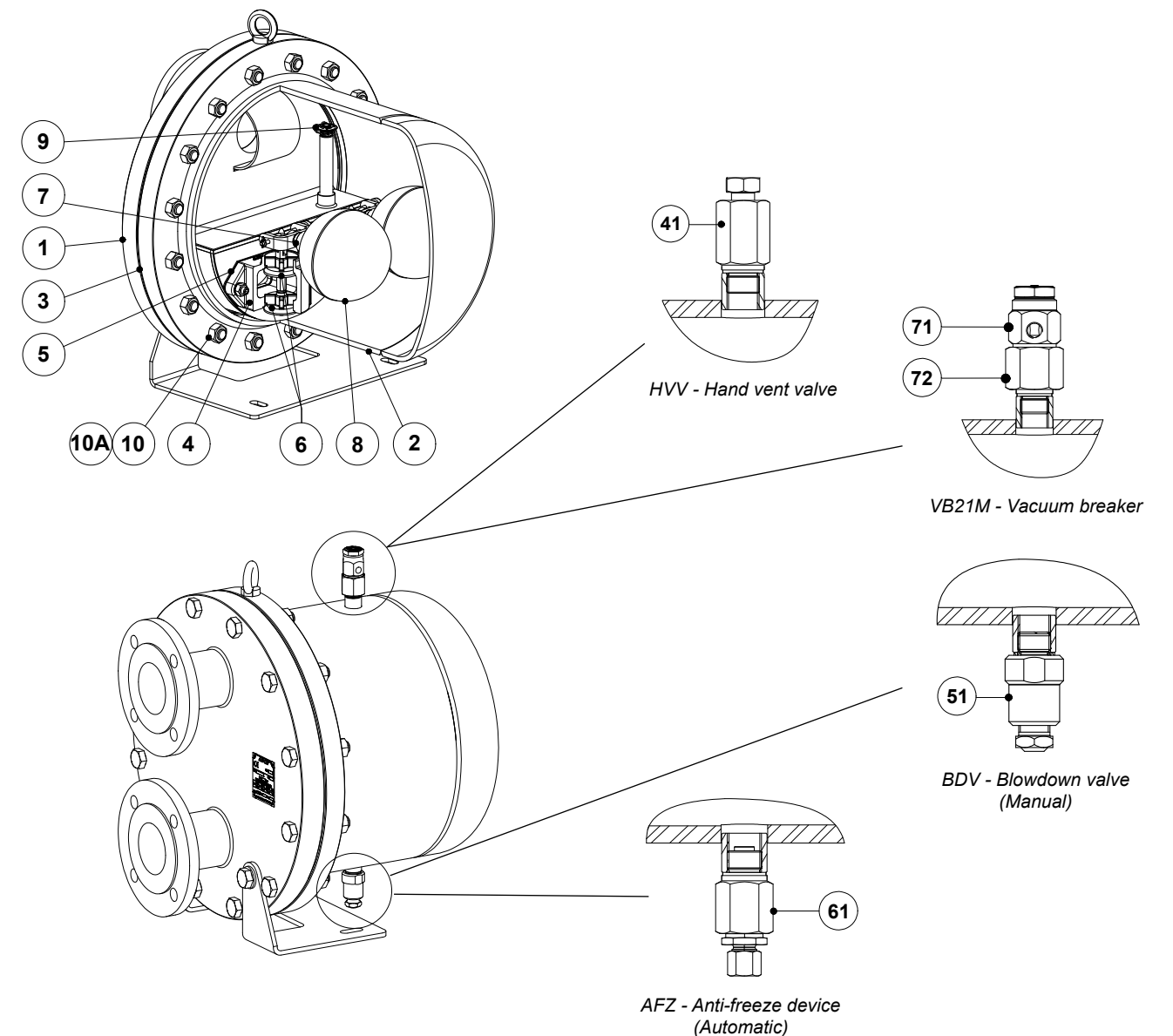
PMO – Max. operating pressure: 12 bar.  
TMO – Max. operating temperature: 250 °C.  
\* According to EN 1092-1:2018.

CE MARKING – GROUP 2 (PED – European Directive)	
PN 16	Category
3" – DN 80	2 (CE marked)

FLOW RATE CAPACITY (kg/h)		DIFFERENTIAL PRESSURE (bar)															
MODEL	SIZE	0,1	0,3	0,5	1	1,5	2	2,5	3	3,5	4	5	6	7	8	10	12
		FLT314STW	3" – DN 80	37600	45400	49000	58000	62000	68000	74000	76000	79000	84000	87000	91000	94000	96000



DIMENSIONS (mm)												
MODEL	SIZE	A PN 16	A CL. 150	B	C	D	E	F	G	H	I	WEIGHT (kg)
FLT314STW	3" – DN 80	552	572	540	230	557	172	400	300	194	15	160





MATERIALS		
POS. N°	DESIGNATION	MATERIAL
1	Body	P250GH / 1.0460; P235GH / 1.0345; S355JR / 1.0045; S235JR / 1.0038
2	Cover	P265GH / 1.0425; P250GH / 1.0460; P235GH / 1.0345; S355JR / 1.0045
3	* Gasket	Stainless steel / Graphite
4	* Seat	A351 CF8M / 1.4408
5	* Gasket	Stainless steel / Graphite
6	* Valve	AISI 420 / 1.4021; A351 CF8M / 1.4408
7	* Lever	AISI 316 / 1.4401; AISI 304 / 1.4301
8	* Float	AISI 304 / 1.4301
9	* Automatic air vent	Stainless steel (thermostatic)
10	Bolts	Steel 8.8
10A	Nuts	Steel 8.8
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	Adapter fitting	AISI 303 / 1.4305

\* Available spare parts.