



BALANCED PRESSURE THERMOSTATIC STEAM TRAP

MODELS FL21/FL32 QuickTrap®

“Quick Trap” BALANCED PRESSURE THERMOSTATIC TRAP WITH “FAIL-OPEN” DESIGN

Features

Inline replaceable and cleanable 2-bolt universal flange steam trap with high air venting capability. For steam mains, tracers, dryers and heaters.

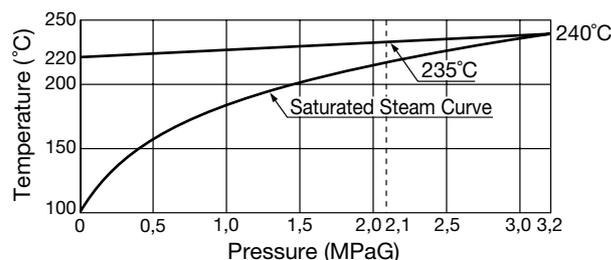
1. Two-bolt flange connector permits trap replacement or cleaning in minutes without disturbing piping.
2. Universal flange allows trap to be positioned in the correct attitude, regardless of pipeline configuration.
3. Patented “fail open” feature for critical service.
4. Rugged yet light construction withstands superheat and water hammer.
5. Cyclic operation with fixed subcooling throughout the whole pressure range.
6. Built-in screens in connector and trap body protect and keep trap module replacement costs low.
7. Easily cleanable and repairable design.
8. Hardened stainless steel valve head and seat.
9. Models FL21C and FL32C with built-in check valve available upon request.



Specifications

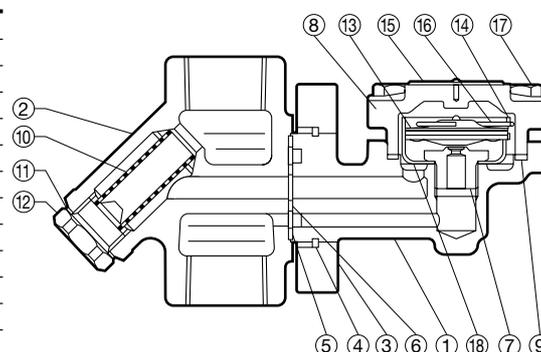
Model	FL21	FL32
Connection	Screwed Socket Welded	Flanged
Size (mm)	15, 20, 25	
Max. Operating Pressure (MPaG)	2.1	3.2
Min. Operating Pressure (MPaG)	0.01	
Maximum Back Pressure	90% of inlet pressure	
Max. Operating Temperature (°C)	see graph at right	
Subcooling of X-element Fill (°C)	up to 6	
Type of X-element	B	

PRESSURE SHELL DESIGN CONDITIONS 1 MPa = 10.197 kg/cm²
 (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 32
 Maximum Allowable Temperature (°C) TMA: 300



CAUTION To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material*	JIS	ASTM/AISI
①	Trap Body	Cast Steel	—	A216 Gr. WCB
②	Connector Body	Cast Stainless Steel	SCS13A	A351 Gr. CF8
③	Connecting Flange	Carbon Steel	—	A105
④	Snap Ring	Carbon Steel	—	SWRH57
⑤ ^{ER}	Outer Connector Gasket	Stainl. St./Graphite	SUS304	AISI304
⑥ ^{ER}	Inner Connector Gasket	Stainl. St./Graphite	SUS304	AISI304
⑦ ^R	Valve Seat	Stainless Steel	SUS420F	AISI420F
⑧	Trap Cover	Carbon Steel	—	A105
⑨ ^{ER}	Cover Gasket	Stainl. St./Graphite	SUS316L	AISI316L
⑩ ^R	Connector Screen	Stainless Steel	SUS304/430	AISI304/430
⑪ ^{ER}	Screen Holder Gasket	Soft Iron	SUYF	AISI1010
⑫	Screen Holder	Carbon Steel	—	A105
⑬ ^R	X-element	Stainless Steel	—	—
⑭ ^R	X-element Guide	Stainless Steel	SUS304	AISI304
⑮	Nameplate	Stainless Steel	SUS304	AISI304
⑯ ^R	Spring Clip	Stainless Steel	SUS304	AISI304
⑰	Cover Bolt	Carbon Steel	S45C	AISI1045
⑱	Trap Screen	Stainless Steel	SUS304	AISI304
⑲	Connector Bolt**	Alloy Steel	—	A193 Gr. B7
⑳	Flange**	Carbon /Cast Steel ***	—	A105/216 Gr. WCB



* Equivalent materials

** Shown overleaf

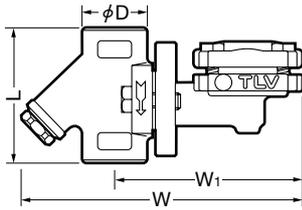
*** Material depends on flange specifications

Replacement kits available:

(M) maintenance parts, (R) repair parts

Dimensions

● **FL21/FL32**
Screwed

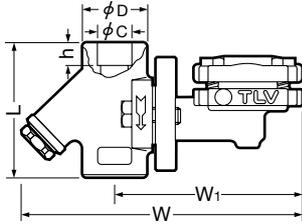


FL21/FL32 Screwed* (mm)

Size	L	W	W ₁	D	Weight (kg)
15	80	161	105	39	1.8
20					
25	96	184	109	46	2.1

* Rc(PT) other standards available

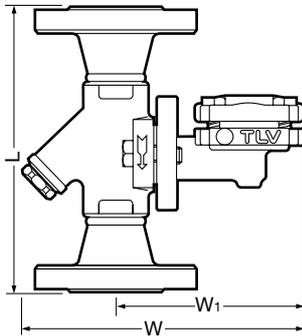
● **FL21/FL32**
Socket Welded



FL21/FL32 Socket Welded (mm)

Size	L	C	D	h	W	W ₁	Weight (kg)
15	80	22.2	39	12	161	105	1.8
20		27.7		14			
25	96	34.5	46		184	109	2.1

● **FL21/FL32**
Flanged

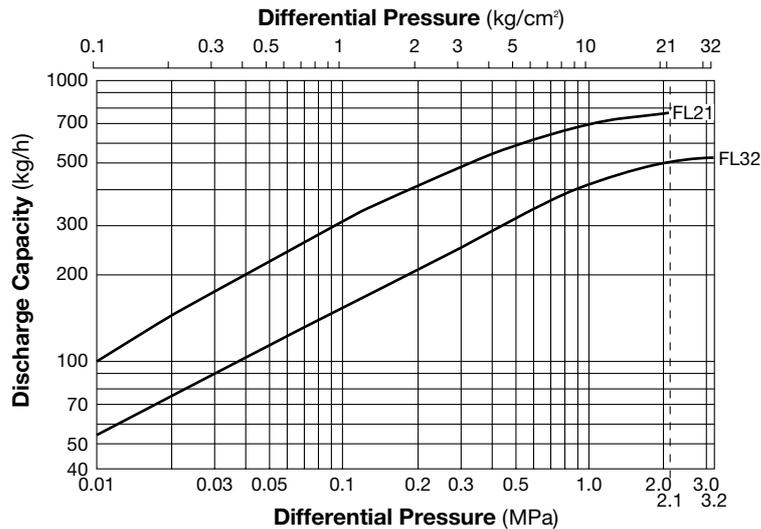


FL21/FL32 Flanged (mm)

Size	L(ASME Class)			W	W ₁	Weight (approx.kg)
	150RF	300RF	600RF			
15	140	140	140	161	105	4.8
20	165	165	165			5.3
25	210	210	210			6.4

Other standards available, but length and weight may vary

Discharge Capacity



1. Differential pressure is the difference between the inlet and outlet pressure of the trap.
2. Recommended safety factor: at least 2

Manufacturer
TLV® CO., LTD.
Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001/ISO 14001

