BALANCED PRESSURE THERMOSTATIC STEAM TRAP

MODEL FL21/FL32 QuickTrap.

UNIVERSAL 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.

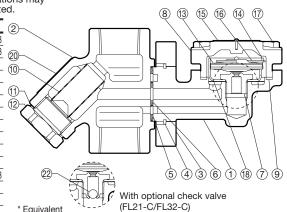
- 1. Two-bolt flange connector permits trap replacement or cleaning in minutes without disturbing piping.
- 2. Universal flange allows trap to be positioned in the correct attitude, regardless of pipeline configuration.
- 3. "Fail open" feature for critical service.
- 4. Rugged yet light construction 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 FL21-C and FL32-C 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) PMO	2.1	3.2	
Min. Operating Pressure (MPaG)	0.01		
Maximum Back Pressure	90% of inlet pressure		
Max. Operating Temperature (°C) TMO	see graph at right		
Subcooling of X-element Fill (°C)	up to 6		
Type of X-element	C6		
Connector Unit	F46		
Trap Unit	L21*	L32*	

* Designed for use with the F46, F32 Connector Units 1 MPa = 10.197 kg/cm² and V1/V2/V1P/V2P Trap Stations. Trap and Connector Units sent as separate units for flexible installation. PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 3.2 Maximum Allowable Temperature (°C) TMA: 300 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*	2
1) [†]	Trap Body	Cast Stainless Steel	—	A351/A351M Gr.CF8	\cup
2	Connector Body	Cast Stainless Steel	—	A351/A351M Gr.CF8	20
3 ^T	Connecting Flange	Carbon Steel	—	A105/A105M	10
4 ^T	Snap Ring	Carbon Steel	SWRH57	AISI1055	U
5 ^{MRT}	Outer Connector Gasket	Graphite/Stainless Steel	- /SUS304	- /AISI304	(11)
6 ^{MRT}	Inner Connector Gasket	Graphite/Stainless Steel	- /SUS304	- /AISI304	12
$(7)^{RT}$	Valve Seat	Stainless Steel	SUS420F	AISI420F	9
(8) ^T	Trap Cover	Carbon Steel	—	A105/A105M	
9 ^{MRT}	Cover Gasket	Graphite/Stainless Steel	- /SUS316L	-/AISI316L	
(10) ^R	Screen inside/outside	Stainless Steel	SUS304/430	AISI304/430	
(1) ^{MR}	Screen Holder Gasket	Stainless Steel	SUS316L	AISI316L	
(12)	Screen Holder	Cast Stainless Steel	—	A351/A351M Gr.CF8	
(13) ^{RT}	X-element	Stainless Steel	—	_	
(14) ^{RT}	X-element Guide	Stainless Steel	SUS304	AISI304	
(15) ^T	Nameplate	Stainless Steel	SUS304	AISI304	
(16) ^{RT}	Spring Clip	Stainless Steel	SUS304	AISI304	
17 ¹	Cover Bolt	Alloy Steel	—	A193/A193M Gr.B7	
(18) ^{RT}	Trap Screen	Stainless Steel	SUS304	AISI304	
(19 ^T	Connector Bolt**	Alloy Steel	SNB7	A193/A193M Gr.B7	
20	Connector Nameplate	Stainless Steel	SUS304	AISI304	
21)	Flange**	Carbon Steel	_	A105/A105M	
2	Steel Ball (Check Valve)	Stainless Steel	SUS440C	AISI440C	

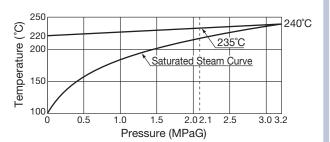


* Shown on reverse

Replacement kits available:

(M) maintenance parts, (R) repair parts (T) trap unit L21/L32 Replacement parts for former connector body F32 differ from those for F46. Copyright © TLV

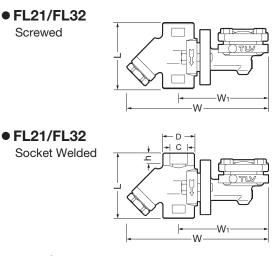




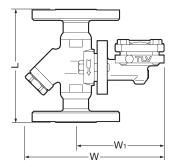
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Dimensions



• FL21/FL32 Flanged



FL21/FL32 Screwed*

(mm)

Size	L	W	W1	Weight (kg)	
15	80	169	105	1.8	
20	00	109	105	1.0	
25	96	171	109	2.1	

* Rc(PT) other standards available

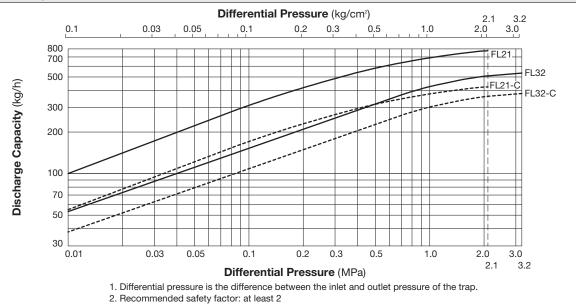
FL21/FL32 Socket Welded (mm)							
Size	L	W	W1	φD	φC	h	Weight (kg)
15	80	169	105	36	22.2	12	1.8
20		109	105	30	27.7	-14	1.0
25	96	171	109	44	34.5	14	2.1

FL21/FL32 Flanged

(mm) L Weight* W₁ Size ASME Class W (kg) 150RF 300RF 600RF 15 140 140 140 4.8 20 165 165 165 169 105 5.3 25 210 210 210 6.4

Other standards available, but length and weight may vary * Weight is for Class 600 RF

Discharge Capacity







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