

BALANCED PRESSURE THERMOSTATIC STEAM TRAP

MODEL FL21/FL32 QuickTrap® **CARBON STEEL**

UNIVERSAL BALANCED PRESSURE THERMOSTATIC TRAP WITH "FAIL OPEN" DESIGN

Features

Inline replaceable and cleanable two-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.
- 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.



Pressure Equipment Directive (PED)

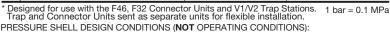
Classification according to PED 2014/68/EU, fluid group 2

Size	Category	CE marking
DN 15 to DN 25	*	Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed

^{*} Manufactured in accordance with sound engineering practice

Specifications

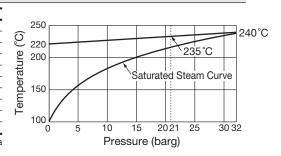
Model	FL21	FL32				
Connection	Screwed, Socket Welded, Flanged					
Size	½", ¾", 1" / DN 15, 20, 25					
Max. Operating Pressure (barg) PMO	21	32				
Min. Operating Pressure (barg)	0.1					
Maximum Back Pressure	90% of inlet pressure					
Max. Operating Temp. (°C) TMO	see graph at right					
Subcooling of X-element Fill (°C)	up to 6					
Type of X-element	C6					
Connector Unit	F46					
Trap Unit	L21* L32*					

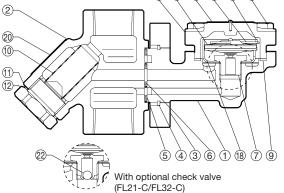


Maximum Allowable Pressure (barg) PMA: 32 Maximum Allowable Temperature (°C) TMA: 300

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	DIN*	ASTM/AISI*	
① ^T	Trap Body	Cast Stainless Steel A351 Gr.CF8	1.4312	_	
2	Connector Body	Cast Stainless Steel A351 Gr.CF8	1.4312	_	
3 ^T	Connecting Flange	Carbon Steel A105	1.0460	_	
(4) ^T	Snap Ring	Carbon Steel SWRH57	1.0535	AISI1055	
5 ^{MRT}	Outer Connector Gasket	Graphite/Stainl. Stl. SUS304	-/1.4301	-/AISI304	
6 ^{MRT}	Inner Connector Gasket	Graphite/Stainl. Stl. SUS304	-/1.4301	-/AISI304	
(7)RT	Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F	
8 ^T	Trap Cover	Carbon Steel A105	1.0460	_	
9 ^{MRT}	Cover Gasket	Graphite/Stainl. Stl. SUS316L	-/1.4404	-/AISI316L	
10 ^R	Screen inside/outside	Stainless Steel SUS304/430	1.4301/1.4016	AISI304/430	
11) ^{MR}	Screen Holder Gasket	Stainless Steel SUS316L	1.4404	AISI316L	
12	Screen Holder	Stainless Steel A351 Gr.CF8	1.4312	_	
13 ^{PT}	X-element	Stainless Steel	_	_	
(14)RT	X-element Guide	Stainless Steel SUS304	1.4301	AISI304	
(15) [™]	Nameplate	Stainless Steel SUS304	1.4301	AISI304	
16 ^{RT}	Spring Clip	Stainless Steel SUS304	1.4301	AISI304	
17) [™]	Cover Bolt	Carbon Steel S45C	1.0503	AISI1045	
18 ^{RT}	Trap Screen	Stainless Steel SUS304	1.4301	AISI304	
19™	Connector Bolt**	Alloy Steel SNB7	1.7225	A193 Gr.B7	
20	Connector Nameplate	Stainless Steel SUS304	1.4301	AISI304	
2 1)	Flongo***	Cast Stainless Steel A351 Gr.CF8	1.4312	_	
(1)	Flange***	Stainless Steel SUS304	1.4301	AISI304	
22	Steel Ball (Check Valve)	Stainless Steel SUS440C	1.4125	AISI440C	





* Equivalent materials ** Shown on reverse

Shown on reverse, shape and material depend on flange specifications

Replacement kits available:

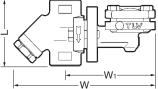
(M) maintenance parts, (R) repair parts, (T) trap unit L21/L32 Replacement parts for former connector body F32 differ from Copyright © TLV



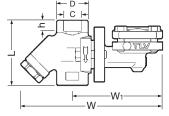
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Dimensions

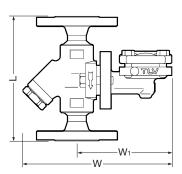
• FL21/FL32 Screwed



• FL21/FL32 Socket Welded



• FL21/FL32 Flanged



FL21/FL32 Screwed*

(mm)

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Size	L	W W1		Weight (kg)		
1/2" 3/4"	80	169	105	1.8		
1″	96	171	109	2.1		

^{*} BSP DIN 2999, other standards available

FL21/FL32 Socket Welded*

(mm)

DN	L	W	W ₁	φD	φС	h	Weight (kg)
15	80	100	105	36	21.8	12	1.8
20		169	105		27.2	- 14	
25	96	171	109	44	33.9		2.1

^{*} ASME B16.11-2005, other standards available

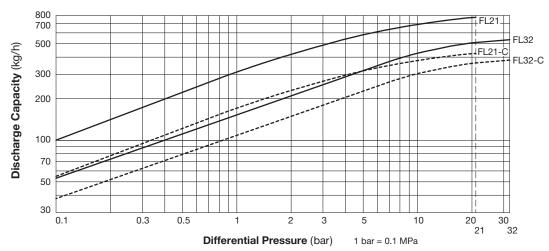
FL21/FL32 Flanged

(mm)

DN	DIN 2501	w	W ₁	Weight* (kg)			
	PN25/40	150RF	300RF	600RF			(Ng)
15	150	150	150	100	169	105	3.4
20	150	150	150 150	180			4.3
25	160	160	160	190			4.8

Other standards available, but length and weight may vary * Weight is for DIN PN 25/40

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 Kakogawa, Japan proved by LRQA Ltd. to ISO 9001/14001

