

BALANCED PRESSURE THERMOSTATIC STEAM TRAP

MODEL FL21/FL32 QuickTrap.

UNIVERSAL BALANCED PRESSURE THERMOSTATIC TRAP WITH "FAIL OPEN" DESIGN

Benefits

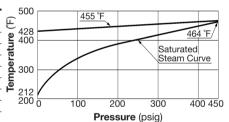
Inline replaceable and cleanable 2-bolt universal flange steam trap with high air venting capability. For steam mains, tracers and light process.

- 1. Two-bolt flange connector permits trap replacement or cleaning in minutes.
- 2. Patented "fail open" design for critical service.
- 3. "Pressure-to-close" valve design with hardened stainless steel valve head and seat for maximum life.
- Valve, four diaphragms and casing have matching contours for high superheat capability and water hammer resistance.
- 5. Flat mirror-finish valve head provides tightest sealing for energy efficiency and life.
- 6. Pipeline screen located in connector protects and keeps trap module replacement costs low.
- 7. Easily cleanable and repairable design with replaceable module gaskets lowers maintenance costs.



Specifications

Model	FL21			FL32			
Connection	Screwed	Socket Weld	Flanged	Screwed	Socket Weld	Flanged	
Size (in)	1/2,	1/2, 3/4, 1 1/2, 3/4, 1		1/2, 3/4, 1 1/2, 3/4		1/2, 3/4, 1	
Max. Operating Pressure (psig) PMO	300 450						
Min. Operating Pressure (psig)	Vacuum						
Maximum Back Pressure	90% of inlet pressure						
Max. Operating Temperature (°F) TMO		see graph at right					
Max. Allowable Pressure (psig) PMA	450						
Max. Allowable Temperature (°F) TMA	572						
Subcooling of X-element Fill (°F)	up to 11 (option: up to 40)						
Type of X-element	C6 (option: C22)						
Connector Unit	F46						
Trap Unit	L21* L32*						

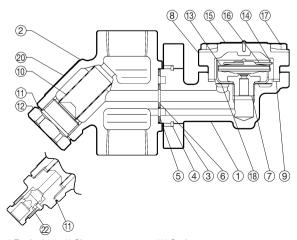


^{*} Designed for use with F46, F32 Connector Units and V1/V2/V1P/V2P Trap Stations. Connections and sizes in bold are standard

!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	ASTM/AISI*	JIS
① ^T	Trap Body	Cast Stainless Steel	A351 Gr.CF8	_
2	Connector Body	Cast Stainless Steel	A351 Gr.CF8	_
3 ^T	Connector Flange	Carbon Steel	A105	_
4) ^T	Snap Ring	Carbon Steel	AISI1055	SWRH57
(5)MR		Graphite/Stainl. Steel	-/AISI304	-/SUS304
6 MR	Inner Connector Gasket	Graphite/Stainl. Steel	-/AISI304	-/SUS304
(7) RT	Valve Seat	Stainless Steel	AISI420F	SUS420F
® [™]	Trap Cover	Carbon Steel	A105	_
9 MR	Cover Gasket	Graphite/Stainl. Steel	-/AISI316L	-/SUS316L
10	Screen	Stainless Steel	AISI430	SUS430
11) ^{MR}	Screen Holder Gasket	Stainless Steel	AISI316L	SUS316L
12	Screen Holder	Stainless Steel	A351 Gr.CF8	_
13 ^{RT}	X-element	Stainless Steel	_	_
(14) RT	X-element Guide	Stainless Steel	AISI304	SUS304
15 ™	Nameplate	Stainless Steel	AISI304	SUS304
16 ^{RT}	Spring Clip	Stainless Steel	AISI304	SUS304
17)™	Cover Bolt	Carbon Steel	AISI1045	S45C
18 ^{RT}	Trap Screen	Stainless Steel	AISI304	SUS304
19 [™]	Connector Bolt**	Alloy Steel	A193 Gr.B7	SNB7
20	Connector Nameplate	Stainless Steel	AISI304	SUS304
21)	Flange**	Cast Stl. Steel (Carbon Steel***)	A351 Gr.CF8 (A105***)	_
22	BD2 Blowdown Valve***	Cast Stainless Steel	A351 Gr.CF8	_



* Equivalent ** Shown on reverse *** Option Replacement kits available: (M) maintenance parts, (R) repair parts, (T) trap unit L21/L32

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

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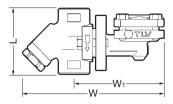


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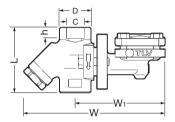
Dimensions

FL21/FL32

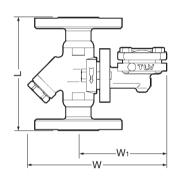
Screwed



• FL21/FL32 Socket Weld



• FL21/FL32 Flanged



FL21/FL32 Screwed*

(in)

Size	L	W**	W ₁	Weight (lb)	
1/2	31/8	6 ⁵ /8	41/8	4.0	
3/4	3 78	6 %	4 78		
1	3 ¾	623/32	4 %2	4.6	

^{*} NPT, other standards available

FL21/FL32 Socket Weld*

(in)

Size	L	W**	W ₁	φD	φС	h	Weight (lb)
1/2	31/8	65/8	41/8	1 7/16	0.855	½ 9/16	4.0
3/4					1.065		
1	3 ¾	623/32	4 %2	1 ¾	1.330	716	4.6

^{*} ASME B16.11-2005, other standards available **With optional BD2 add approx. $^{11}/_{16}$ " to W

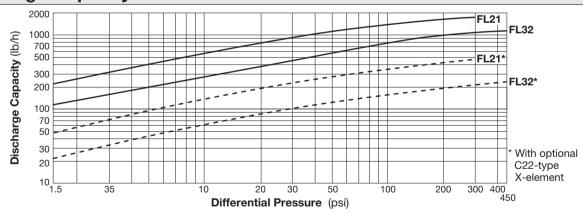
FL21/FL32 Flanged

(in)

	L*					
Size Connects to ASME Class			W**	W ₁	Weight*** (lb)	
	150RF	300RF	600RF			(12)
1/2		SS: 5 1/ ₈ CS: 5 1/ ₂	SS: 7 ½ CS: 5 ½		4 ¹ / ₈	11
3/4		SS: 5 7/8 CS: 6 1/2	SS: 7 1/16 CS: 6 1/2	65/8		12
1		SS: 6 5/16 CS: 8 1/4				14

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.

DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE. Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

TLV: CORPORATION

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Manufacturer



^{**}With optional BD2 add approx. 11/16" to W

SS: stainless steel, CS: carbon steel. Flange material refers only to flanges. F46 connector body material is always stainless steel. ** With optional BD2 add approx. $^{11}\!/_{16}"$ to W *** Weight is for Class 600 RF