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

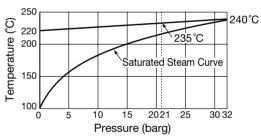
- 1. Two-bolt flange connector permits trap replacement or cleaning in minutes without disturbing piping.
- 2. Universal flange allows trap to be positioned in the correct attitude, regardless of pipeline configuration.
- 3. Patented "fail open" feature for critical service.
- 4. Rugged yet light construction 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 FL21-C and FL32-C with built-in check valve available upon request.



Patented

#### **Specifications**

Model	FL21	FL32			
Connection	Screwed, Socket Welded, Flanged				
Size	<sup>1</sup> / <sub>2</sub> ″, <sup>3</sup> / <sub>4</sub> ″, 1″ / DN 15, 20, 25				
Max. Operating Pressure (barg) PMO	21	32			
Min. Operating Pressure (barg)	0	.1			
Maximum Back Pressure	90% of inl	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	В				
Connector Unit	F	F46			
Trap Unit	L21*	L32*			

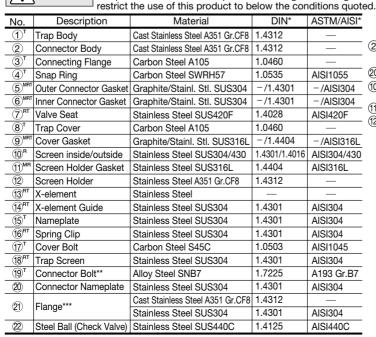


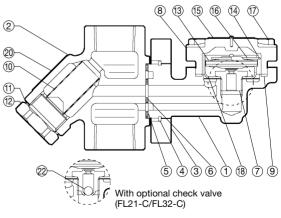
\* Designed for use with the F46, F32 Connector Units and V1/V2 Trap Station. PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): 1 bar = 0.1 MPa

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

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

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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 those for F46.

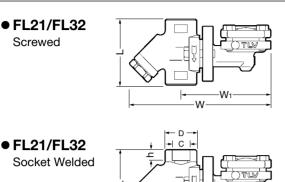
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### **Consulting & Engineering Service**

#### **Dimensions**

• FL21/FL32

Flanged



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W1

w

FL21/FL32 Screwed\* L Size W W1 Weight (kg) 1/2" 105 80 169 1.8 3/4″ 1″ 96 171 109 2.1

\* BSP DIN 2999, other standards available

FL21/FL32 Socket Welded* (mm)							
DN	L	W	W1	φD	φC	h	Weight (kg)
15	80	100	105	00	21.8	12	1.0
20		80	169	105	36	27.2	14
25	96	171	109	44	33.9	14	2.1

\* ASME B16.11-2005, other standards available

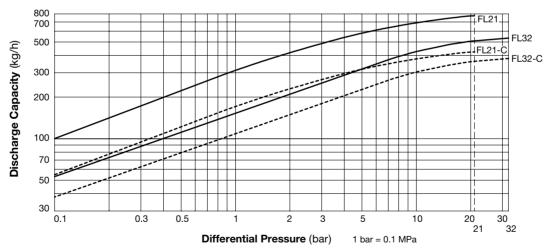
(mm)

(mm)

F	FL21/FL32 Flanged (mm								
	DN	DIN 2501 PN25/40	L ASME Class 150RF   300RF   600RF			w	W1	Weight* (kg)	
	15	- 150	150	150	180	169	105	3.4	
	20							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





1. Differential pressure is the difference between the inlet and outlet pressure of the trap.

2. Recommended safety factor: at least 2.





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