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.
- 4. 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



* 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 produ | ict |
|---------|---|-----|
| | specification range. Local regulations may restrict the use of this product to belo | w |

the conditions quoted

| No. | Description | Material | ASTM/AISI* | JIS |
|--------------------------|------------------------|--------------------------------------|--------------------------------------|-----------|
| (1) ^T | Trap Body | Cast Stainless Steel | A351/A351M Gr.CF8 | — |
| 2 | Connector Body | Cast Stainless Steel | A351/A351M Gr.CF8 | — |
| <u>З</u> т | Connector Flange | Carbon Steel | A105/A105M | — |
| <u>(</u> 4) ^т | Snap Ring | Carbon Steel | AISI1055 | SWRH57 |
| (5) ^{MR} | Outer Connector Gasket | Graphite/Stainl. Steel | -/AISI304 | -/SUS304 |
| 6 ^{MR} | Inner Connector Gasket | Graphite/Stainl. Steel | -/AISI304 | -/SUS304 |
| (7) ^{rt} | Valve Seat | Stainless Steel | AISI420F | SUS420F |
| 8 ^т | Trap Cover | Carbon Steel | A105/A105M | _ |
| 9 ^{MR} | Cover Gasket | Graphite/Stainl. Steel | -/AISI316L | -/SUS316L |
| 10 | Screen | Stainless Steel | AISI430 | SUS430 |
| | Screen Holder Gasket | Stainless Steel | AISI316L | SUS316L |
| 12 | Screen Holder | Stainless Steel | A351/A351M 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 |
| ¶7⊺ | Cover Bolt | Alloy Steel | A193/A193M Gr.B7 | |
| 18 ^{RT} | Trap Screen | Stainless Steel | AISI304 | SUS304 |
| <u>(19</u> т | Connector Bolt** | Alloy Steel | A193/A193M Gr.B7 | SNB7 |
| 20 | Connector Nameplate | Stainless Steel | AISI304 | SUS304 |
| 21) | Flange** | Cast Stl. Steel (Carbon Steel***) | A351/A351M Gr.CF8 (A105/A105M***) | _ |
| 22 | BD2 Blowdown Valve*** | Cast Stainless Steel | A351/A351M Gr.CF8 | _ |



outside of the

* Equivalent ** Shown on reverse *** Option 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.

TLV

Dimensions



W.

w

| FL21/FL32 Screwed* (in) | | | | | |
|-------------------------|-------|---------------------|------|-------------|--|
| Size | L | W** | W1 | Weight (lb) | |
| 1/2 | 21/ | 05/ | 41/ | 4.0 | |
| 3⁄4 | 3.78 | 678 | 4 78 | | |
| 1 | 3 3⁄4 | 6 ²³ ⁄32 | 4 % | 4.6 | |

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

| FL21/FL32 Socket Weld* | | | | | | (in) | |
|------------------------|-------|---------------------|-------|--------|-------|-------------|-------------|
| Size | L | W** | W1 | φD | φC | h | Weight (lb) |
| 1/2 | a1/ | 65% | .1/ | 1 7/16 | 0.855 | 1/2 9/16 | 4.0 |
| 3⁄4 | 3 1/8 | | 4 1/8 | | 1.065 | | |
| 1 | 3 ¾ | 6 ²³ ⁄32 | 4 %2 | 1 3⁄4 | 1.330 | | 4.6 |

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

FL21/FL32 Flanged

(in)

| | L* | | | W** | W1 | Weight*** |
|------|---|---|---|-------------------|----------------------|-----------|
| Size | Connects to ASME Class | | | | | |
| | 150RF | 300RF | 600RF | | | (10) |
| 1⁄2 | SS: 5 ⁷ / ₈ CS: 5 ¹ / ₂ | SS: 57/8 CS: 51/2 | SS: 7 ¹ / ₁₆ CS: 5 ¹ / ₂ | 6 ⁵ ⁄8 | ⁵ ⁄8 41⁄8 | 11 |
| 3⁄4 | SS: 5 ⁷ / ₈ CS: 6 ¹ / ₂ | SS: 57/8 CS: 61/2 | SS: 7 ¹ / ₁₆ CS: 6 ¹ / ₂ | | | 12 |
| 1 | SS: 6 ⁵ / ₁₆ CS: 8 ¹ / ₄ | SS: 6 ⁵ / ₁₆ CS: 8 ¹ / ₄ | SS: 7 ½ CS: 8 ¼ | | | 14 |

Other standards available, but length and weight may vary 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



DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE.

CAUTION 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.

Member of

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TLV: CORPORATION

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



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SDS A2012-02 Rev. 4/2025 Products for intended use only. Specifications subject to change without notice.

(M)

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