



FREE FLOAT® STEAM TRAP

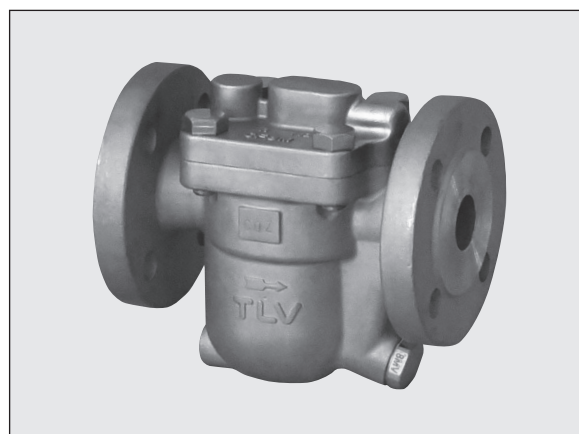
MODEL JH3LH-X STAINLESS STEEL

FREE FLOAT STEAM TRAP WITH THREE-POINT SEATING AND THERMOSTATIC AIR VENTING

Features

A reliable and durable stainless steel steam trap for use on small-size process equipment.

1. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
2. Constant water seal and unique three-point seating ensure perfect steam-tight seal, even under no-load conditions.
3. Thermostatic capsule (X-element) with “fail open” feature vents air automatically at close-to-steam temperature.
4. Built-in screen with large surface ensures trouble free operation.
5. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.



Pressure Equipment Directive (PED)

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

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

* Manufactured in accordance with sound engineering practice

Specifications

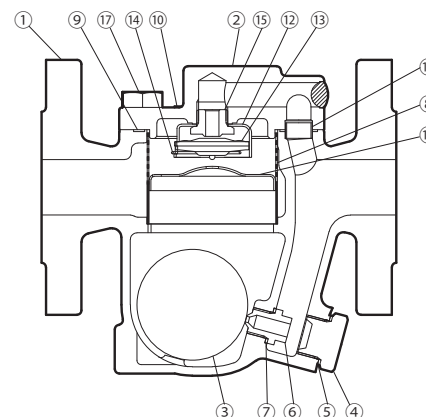
| | |
|--|-----------|
| Model | JH3LH-X |
| Connection | Flanged |
| Size | DN 25 |
| Orifice No. | 5, 14, 32 |
| Maximum Operating Pressure (barg) PMO | 5, 14, 32 |
| Maximum Differential Pressure (bar) ΔPMX | 5, 14, 32 |
| Maximum Operating Temperature (°C) TMO | 240 |
| Subcooling of X-element Fill (°C) | up to 6 |
| Type of Air Vent | C6 |

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 32 1 bar = 0.1 MPa
Maximum Allowable Temperature (°C) TMA: 240



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 | DIN/EN* | ASTM/AISI* |
|-----------------|-----------------------|---|---------------|-------------|
| ① | Body | Cast Stainless Steel A351/A351M Gr.CF8M | 1.4410 | — |
| ② | Cover | Cast Stainless Steel A351/A351M Gr.CF8M | 1.4410 | — |
| ③ ^F | Float | Stainless Steel SUS316L | 1.4404 | — |
| ④ | Orifice Plug | Cast Stainless Steel A351/A351M Gr.CF8M | 1.4410 | — |
| ⑤ ^{MR} | Orifice Plug Gasket | Stainless Steel SUS316L | 1.4404 | AISI316L |
| ⑥ ^R | Orifice | — | — | — |
| ⑦ ^{MR} | Orifice Gasket | Stainless Steel SUS316L | 1.4404 | AISI316L |
| ⑧ ^R | Screen inside/outside | Stainless Steel SUS430/304 | 1.4016/1.4301 | AISI430/304 |
| ⑨ ^{MR} | Cover Gasket | Graphite/Stainless Steel SUS316L | -/1.4404 | -/AISI316L |
| ⑩ | Nameplate | Stainless Steel SUS304 | 1.4301 | AISI304 |
| ⑪ ^R | Float Cover | Stainless Steel SUS304 | 1.4301 | AISI304 |
| ⑫ ^R | X-element Guide | Stainless Steel SUS304 | 1.4301 | AISI304 |
| ⑬ ^R | X-element | — | — | — |
| ⑭ ^R | Spring Clip | Stainless Steel SUS304 | 1.4301 | AISI304 |
| ⑮ ^R | Air Vent Valve Seat | Stainless Steel SUS420F | 1.4028 | AISI420F |
| ⑯ | Connector | Stainless Steel SUS416 | 1.4005 | AISI416 |
| ⑰ | Cover Bolt | Stainless Steel A193/A193M Gr.B8M Cl.2 | 1.4401 | — |



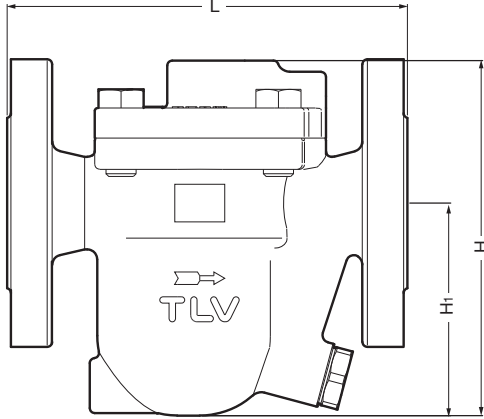
* Equivalent materials

Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

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Dimensions

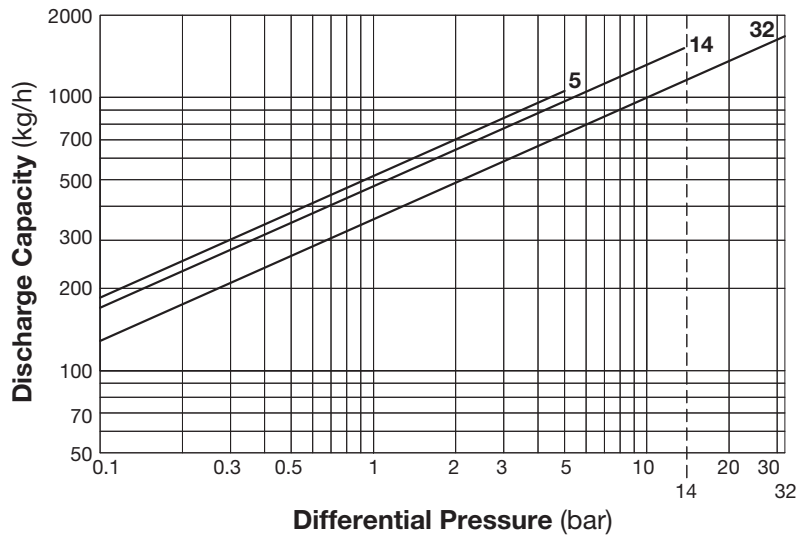
● **JH3LH-X** Flanged



JH3LH-X Flanged (mm)

| DN | L | H | H ₁ | Weight (kg) |
|----|-----------------------|-----|----------------|-------------|
| | DIN EN 1092-2 PN40 | | | |
| 25 | 160 | 140 | 85 | 5.1 |

Discharge Capacity



1. Line numbers within the graph refer to orifice numbers.
2. Differential pressure is the difference between the inlet and outlet pressure of the trap.
3. Capacities are based on continuous discharge of condensate 6 °C below saturated steam temperature.
4. Recommended safety factor: at least 1.5.



DO NOT use traps under conditions that exceed maximum differential pressure, as condensate backup will occur!

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

