



FREE FLOAT STEAM TRAP

MODEL J8X

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

A reliable and durable cast iron free float steam trap with tight shut-off for use on Large-size process equipment.

1. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
2. Only one moving part, the free float, eliminates concentrated valve wear and provides long maintenance-free service life.
3. Thermostatic capsule with "fail open" feature vents air automatically until close-to-steam temperature, for rapid start-up, increased productivity and even heating.
4. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.
5. Built-in screen with large surface area ensures trouble-free operation.



Specifications

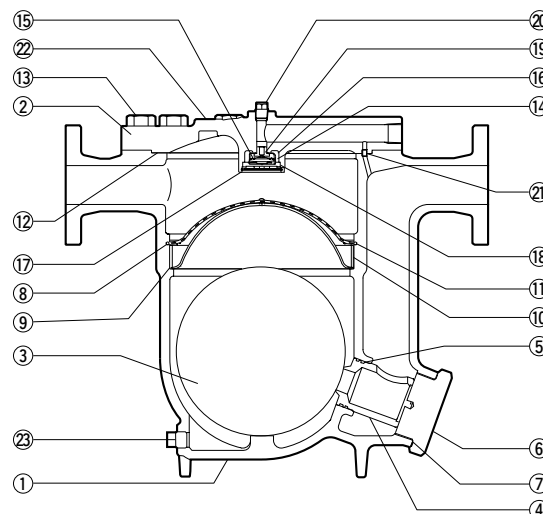
| Model | | J8X |
|-------------------------------------|------|-------------------------------------|
| Connection | | Flanged |
| Size (mm) | | 50, 80, 100 |
| Orifice No. | | 0.5, 1, 2, 5, 10, 14, 16 |
| Maximum Operating Pressure (MPaG) | PMO | 0.05, 0.1, 0.2, 0.5, 1.0, 1.4, 1.57 |
| Maximum Differential Pressure (MPa) | ΔPMX | 0.05, 0.1, 0.2, 0.5, 1.0, 1.4, 1.57 |
| Minimum Operating Pressure (MPaG) | | 0.01 |
| Maximum Operating Temperature (°C) | | 220 |
| Subcooling of X-element Fill (°C) | | up to 6 |
| Type of X-element | | B |

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 1.57 1 MPa = 10.197 kg/cm²
Maximum Allowable Temperature (°C) TMA: 220



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 | JIS | ASTM/AISI* |
|-----------------|------------------------|----------------------|---------|-------------------|
| ① | Body | Cast Iron | FC250 | A48 No. 35 |
| ② | Cover | Cast Iron | FC250 | A48 No. 35 |
| ③ ^F | Float | Stainless Steel | SUS316L | AISI316L |
| ④ ^R | Orifice | Cast Stainless Steel | SCS2A | A743 CA40 |
| ⑤ ^{MR} | Orifice O-Ring | Synthetic Rubber | EPR | EPR |
| ⑥ | Orifice Holder Plug | Ductile Cast Iron | FCD450 | A536 Gr. 65-45-12 |
| ⑦ ^{MR} | Orifice Plug Gasket | Fluorine Resin | PTFE | PTFE |
| ⑧ ^R | Screen | Stainless Steel | SUS430 | AISI430 |
| ⑨ | Screen Holder | Stainless Steel | SUS304 | AISI304 |
| ⑩ | Screen Holder Retainer | Stainless Steel | SUS304 | AISI304 |
| ⑪ | Snap Ring | Stainless Steel | SUS304 | AISI304 |
| ⑫ ^{MR} | Cover Gasket | Stainl. St./Graphite | SUS316L | AISI316L |
| ⑬ | Cover Bolt | Carbon Steel | S45C | AISI1045 |
| ⑭ ^R | X-element | Stainless Steel | — | — |
| ⑮ ^R | Spring Clip | Stainless Steel | SUS304 | AISI304 |
| ⑯ ^R | X-element Guide | Stainless Steel | SUS304 | AISI304 |
| ⑰ ^R | X-element Cover | Stainless Steel | SUS304 | AISI304 |
| ⑱ ^R | Snap Ring | Stainless Steel | SUS304 | AISI304 |
| ⑲ ^R | Air Vent Valve Seat | Stainless Steel | SUS420F | AISI420F |
| ⑳ | Plug | Carbon Steel | SS400 | A6 |
| ㉑ | Connector | Stainless Steel | SUS416 | AISI416 |
| ㉒ | Nameplate | Stainless Steel | SUS304 | AISI304 |
| ㉓ | Drain Plug | Carbon Steel | SS400 | A6 |



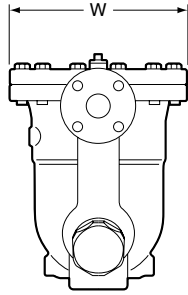
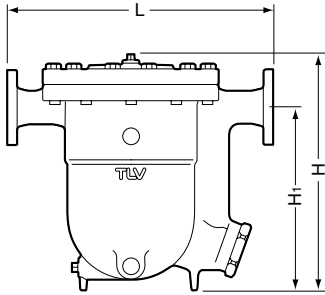
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* Equivalent

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

Dimensions

● **J8X** Flanged

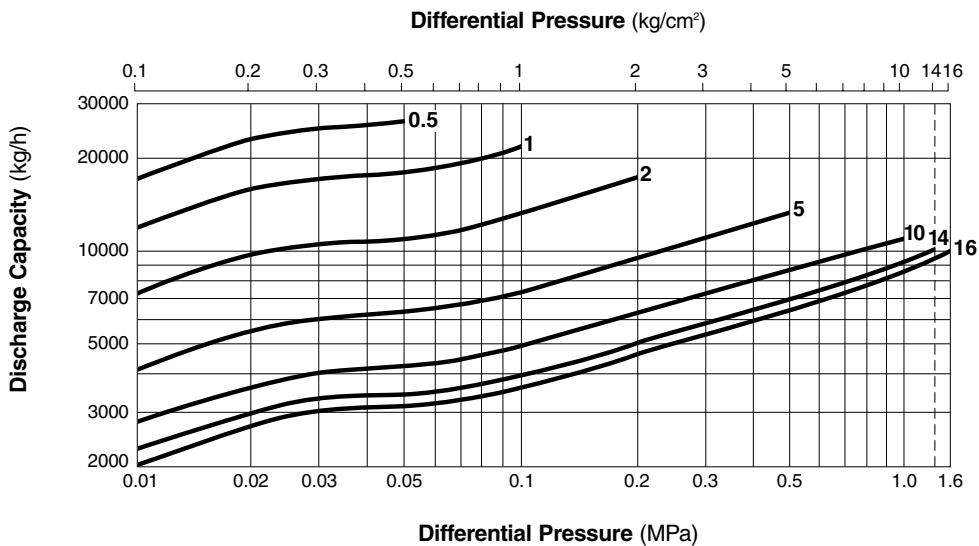


J8X Flanged* (mm)

| Size | L (ASME Class) | | H | H ₁ | φW | Weight (approx. kg) |
|------|----------------|-------|-----|----------------|-----|---------------------|
| | 150RF | 300RF | | | | |
| 50 | 550 | 556 | 493 | 381 | 365 | 98 |
| 80 | 554 | 564 | 508 | 380 | | 105 |
| 100 | 550 | 566 | 518 | | | 109 |

* Fits to ASME Class 150RF or 300RF
Other Standards available, but length and weight may vary

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

ISO 9001/ISO 14001

TLV® CO., LTD.
Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

