



FLOAT DYNAMIC[®] STEAM TRAP

MODEL J10

CAST IRON FLOAT-PISTON TRAP FOR HIGH-CAPACITY PROCESS APPLICATION

Features

Inline maintainable, float dynamic steam trap capable of discharging condensate at high flow rates. Suitable for large process heat exchangers.

1. Self-modulating free float pilot mechanism ensures discharge at near-to-steam temperatures
2. Proven piston valve allows "pulsing" discharge of condensate at high flow rates and intermittent discharge at low flow rates.
3. Steam chamber design prevents damage to the valve and valve seat on closure.
4. All internal parts are easily accessible without having to remove the trap from the line.
5. Applicable over a wide pressure range without adjustment.
6. Manual lock release valve helps eliminate steam locking and air binding.



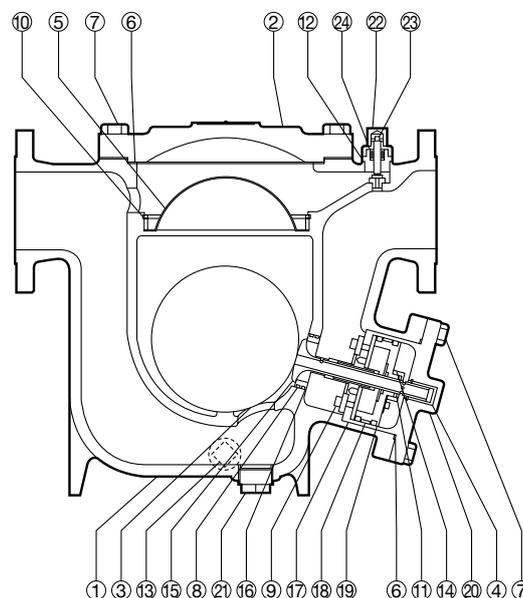
Specifications

| Model | J10-30 | J10-60 |
|-------------------------------------|--------|---------|
| Connection | | Flanged |
| Size (mm) | | 100 |
| Maximum Operating Pressure (MPaG) | PMO | 1.6 |
| Maximum Differential Pressure (MPa) | ΔPMX | 1.6 |
| Minimum Differential Pressure (MPa) | | 0.05 |
| Maximum Operating Temperature (°C) | TMO | 220 |

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 1.6 1 MPa = 10.197 kg/cm²
Maximum Allowable Temperature (°C) TMA: 220

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.

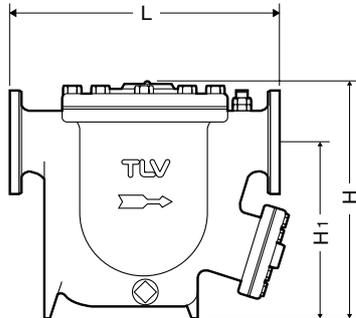
| No. | Description | Material | JIS | ASTM/AISI* |
|-----|------------------------|-----------------------------|-------------|--------------|
| ① | Body | Cast Iron | FC250 | A126 Cl.B |
| ② | Cover | Cast Iron | FC250 | A126 Cl.B |
| ③ | Float | Stainless Steel | SUS316L | AISI316L |
| ④ | Sleeve | Stainless Steel | SUS420F | AISI420F |
| ⑤ | Float Cover | Stainless Steel | SUS304 | AISI304 |
| ⑥ | Cover Gasket | Graphite/Stainl. Stl. | - /SUS316L | - /AISI316L |
| ⑦ | Cover Bolt | Carbon Steel | SS400 | A6 |
| ⑧ | O-Ring | Synthetic Rubber | EPR | D2000CA |
| ⑨ | Main Valve Seat Bolt | Alloy Steel | SCM435 | AISI4135 |
| ⑩ | Snap Ring | Stainless Steel | SUS304 | AISI304 |
| ⑪ | Stopper Ring | Stainless Steel | SUS420F | AISI420F |
| ⑫ | Relief Valve Gasket | Soft Iron | SUYP | AISI1010 |
| ⑬ | Drain Plug | Carbon Steel | SS400 | A6 |
| ⑭ | Turn Stopper | Stainless Steel | SUS304 | AISI304 |
| ⑮ | Main Valve | - | - | - |
| ⑯ | Main Valve Seat | - | - | - |
| ⑰ | Cylinder | Stainless Steel | SUS304 | AISI304 |
| ⑱ | Piston Ring Set | Stainl. Stl./Fluorine Resin | SUS304/PTFE | AISI304/PTFE |
| ⑲ | Piston | Stainless Steel | SUS304 | AISI304 |
| ⑳ | Valve Cover | Cast Iron | FC250 | A126 Cl.B |
| ㉑ | Plug | Cast Iron | FCMB | A47 Gr.32510 |
| ㉒ | Lock Release Valve Cap | Stainless Steel | SUS303 | AISI303 |
| ㉓ | Lock Release Valve | Stainless Steel | SUS420F | AISI420F |
| ㉔ | V-Ring Packing | Fluorine Resin | PTFE | PTFE |



* Equivalent

Dimensions

● **J10** Flanged



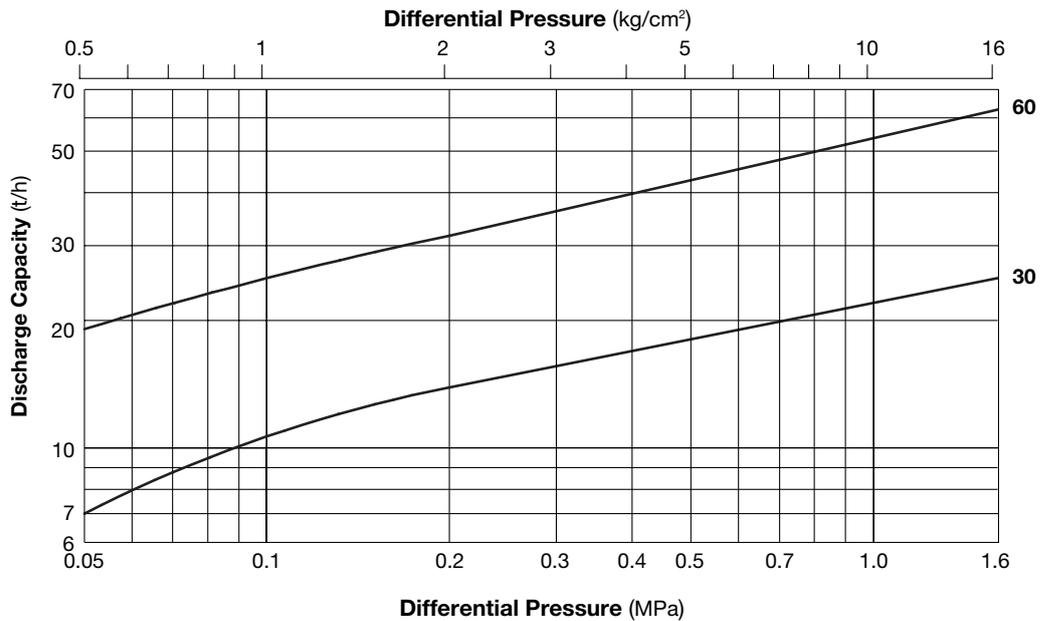
J10 Flanged (mm)

| Size | L | | | | H | H ₁ | Weight* (kg) |
|------|------------|---------|-------|---------|-----|----------------|--------------|
| | ASME Class | | | | | | |
| | 125FF | (150RF) | 250RF | (300RF) | | | |
| 100 | 595 | 595 | 611 | 611 | 510 | 395 | 121 |

() No ASME standard exists for cast iron; machined to fit steel flanges
 Class 125 FF can connect to 150 RF, 250 RF can connect to 300 RF
 Other standards available, but length and weight may vary
 * Weight is for Class 250 RF

Installation of a strainer (TLV-Y3/YF/YDF or equivalent) at the trap inlet is recommended.

Discharge Capacity



1. Capacities are based on continuous discharge of condensate 6°C below saturated steam temperature.
2. Differential pressure is the difference between the inlet and outlet pressure of the trap.
3. Select the closest model with a capacity greater than the actual condensate load multiplied by a safety factor of 1.2.



CAUTION 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

