

FREE FLOATS STEAM TRAP

MODEL SS5 STAINLESS STEEL

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

Maintenance-free steam trap for steam mains, tracer lines and small-to-medium process applications.

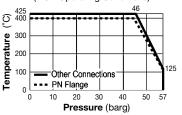
- 1. All-welded, maintenance-free construction.
- 2. Automatic bimetal air vent for rapid start-up.
- 3. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
- 4. Constant water seal and unique three-point seating ensure perfect steam-tight seal, even under no-load conditions.
- 5. Only one moving part, the free float, prevents concentrated wear and provides long service life.
- 6. Built-in screen with large surface area holds back impurities.



Specifications

| Model | SS5N SS5V | | SS5NH | SS5VH | |
|---------------------------------------|---|---------------------|--|----------|--|
| Installation | Horizontal | Vertical | Horizontal | Vertical | |
| Connection | Screwed, So Flan | cket Welded, ged | Screwed, Socket Welded, Flanged | | |
| Size | ¹ / ₂ ", ³ / ₄ ", 1 "/ | DN 15, 20, 25 | ¹ / ₂ ", ³ / ₄ ", 1" / DN 15, 20, 25 | | |
| Orifice No. | 5, 10, 16, 21, 32 | | 46 | | |
| Max. Operating Pressure (barg) PMO | 5, 10, 16, 21, 32 | | 46 | | |
| Max. Differential Pressure (bar) ΔPMX | 5, 10, 16, 21, 32 | | 46 | | |
| Max. Operating Temperature (°C) TMO | 400* | / 425 | 400* / 425 | | |
| * With PN flange | | | | | |

Max. Allowable Press. / Temp. (PMA/TMA)
Pressure Shell Design Conditions
(NOT Operating Conditions)



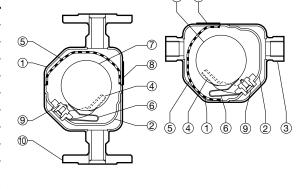
1 bar = 0.1 MPa



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* | ASTM/AISI* |
|-----|----------------|---|-------------------|------------|
| 1 | Body | Stainless Steel A240 Type 316L | 1.4404 | _ |
| 2 | Inner Cover | Stainless Steel A240 Type 316L | 1.4404 | _ |
| 3 | Socket | Stainless Steel A351 Gr.CF8 | 1.4312 | _ |
| 4 | Float Guide | Cast Stainl. Steel A351 Gr.CF3M | 1.4435 | _ |
| (5) | Screen | Stainless Steel SUS304 | 1.4301 | AISI304 |
| 6 | Air Vent Strip | Bimetal | _ | _ |
| 7 | Float | Stainless Steel SUS316L | 1.4404 | AISI316L |
| 8 | Nameplate | Stainless Steel SUS304 | 1.4301 | AISI304 |
| 9 | Orifice | _ | _ | _ |
| 10 | Flange** | Stainless Steel SUS304/ Ôæ dstainlEsteel A351 Gr.CF8 | 1.4301/ 1.4312 | AISI304/ |



^{*} Equivalent materials

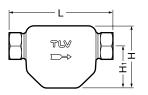
^{**} Shown on reverse, shape and material depend on flange specifications



Consulting & Engineering Service

Dimensions

• SS5N/SS5NH Screwed



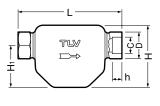
SS5V/SS5VH

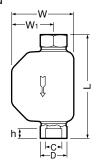


* BSP DIN 2999, other standards available

SS5N/SS5NH/SS5V/SS5VH Screwed* (mm) Weight (kg) φ H/W Model Size H₁/W₁ 1/2 155 1.4 SS5N 3/4 105 71 182 1.6 SS5V 1 193 1.8 1.5 1/2 160 SS5NH 3/4 187 108 73 1.7 SS5VH 198 1.9

Socket Welded





Flanged TLV



SS5N/SS5NH/SS5V/SS5VH Socket Welded* (mm)

| Model | DN | L | φ H/W | H1/W1 | φD | φC | h | Weight (kg) |
|----------------|----|-----|-------|-------|----|------|----|-------------|
| SS5N SS5V | 15 | 155 | 105 | 71 | 30 | 21.8 | 12 | 1.4 |
| | 20 | 182 | | | 36 | 27.2 | 14 | 1.6 |
| | 25 | 193 | | | 44 | 33.9 | | 1.8 |
| SS5NH SS5VH | 15 | 160 | 108 | 73 | 30 | 21.8 | 12 | 1.5 |
| | 20 | 187 | | | 36 | 27.2 | 14 | 1.7 |
| | 25 | 198 | | | 44 | 33.9 | | 1.9 |

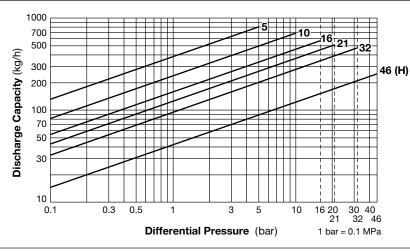
^{*} ASME B16.11-2005, other standards available

SS5N/SS5NH/SS5V/SS5VH Flanged

| | DN | L | | | | | | |
|----------------|----|-------------|----------|----------------|-------|------------------------|-------------------|-----------------|
| Model | | DIN 2501 | | ASME Class | | φH/W | □ 4 /\/\/4 | Weight* |
| | | PN 25/40 | PN 63 | 150RF 300RF | 600RF | <i>φ</i> Π/ V V | | Weight* (kg) |
| SS5N SS5V | 15 | 210 | _ | 202 | 202 | 105 | 71 | 3.2 |
| | 20 | | _ | 222 | 222 | | | 3.6 |
| | 25 | 230 | _ | 242 | 242 | | | 4.7 |
| SS5NH SS5VH | 15 | 210 | 210 | _ | 208 | 108 | 73 | 3.3 |
| | 20 | | _ | _ | 228 | | | 3.7 |
| | 25 | 230 | 230 | _ | 248 | | | 4.8 |

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 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

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





(mm)

Weight is for DIN PN 25/40