

DESCRIPTION:

PT61 float and thermostatic (integral air vent) steam traps are designed for draining condensate from all types of low and medium pressure steam heating and process equipment.

Typical applications include unit heaters, heat exchangers, driers and jacketed vessels.

AVAILABLE TYPES:

PT61 - with Thermostatic Air Vent

PT61S - with Steam Lock Release (SLR)

FEATURES:

Modulating discharge.

Discharges condensate at steam temperature.

Excellent air venting (by thermostatic air vent).

USE: Saturated and superheated steam

SIZES: NPS ½, ¾, 1 (DN15, 20, 25)

CONNECTIONS: Screwed (NPT/BSPT/BSP)

LIMITING CONDITIONS:

| | | |
|---------------------------------|----------|---------------------------|
| PMA: Max. allowable pressure | 225 psig | 16 kg/cm ² (g) |
| TMA: Max. allowable temperature | 425 °F | 220 °C |
| PMO: Max. operating pressure | 200 psig | 14 kg/cm ² (g) |
| TMO: Max. operating temperature | 425 °F | 220 °C |
| Cold hydro test pressure | 450 psig | 32 kg/cm ² (g) |


INSTALLATION:

Standard horizontal installation with flow from right to left PT61.

UPON REQUEST:

- Horizontal installation with flow from left to right PT61 (L-R)
- Vertical installation with flow from top to bottom PT61(V).

Max. differential pressure range:

PT61-65 : 65 psi (4.5 kg/cm²)

PT61-145 : 145 psi (10 kg/cm²)

PT61-200 : 200 psi (14 kg/cm²)

The trap should be installed below the drain point of the equipment in a position so that the float arm is in a horizontal plane and the float rises and falls vertically, with the flow direction as indicated on the body.

The arrow on the nameplate should be pointing vertically upwards.

TRAP DISCHARGE CAPACITY IN lbs/hr

| MODEL | SIZE | DIFFERENTIAL PRESSURE (psi) | | | | | | | | | | | | | | | | |
|-----------|--------|-----------------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 7 | 15 | 21.5 | 28.5 | 42.5 | 57 | 65 | 70 | 85 | 100 | 115 | 128 | 145 | 157 | 170 | 185 | 200 |
| PT61 - 65 | ½", ¾" | 440 | 616 | 705 | 770 | 880 | 1000 | 1090 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| PT61 - 65 | 1" | 1166 | 1540 | 1650 | 1936 | 2244 | 2420 | 2706 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| PT61-145 | ½", ¾" | 297 | 330 | 365 | 396 | 462 | 530 | 560 | 615 | 660 | 770 | 860 | 890 | 925 | ----- | ----- | ----- | ----- |
| PT61-145 | 1" | 506 | 704 | 814 | 924 | 1122 | 1254 | 1320 | 1408 | 1496 | 1562 | 1672 | 1760 | 1804 | ----- | ----- | ----- | ----- |
| PT61-200 | ½", ¾" | 275 | 308 | 330 | 363 | 418 | 485 | 506 | 540 | 595 | 650 | 715 | 770 | 825 | 890 | 946 | 1000 | 1060 |
| PT61-200 | 1" | 285 | 352 | 396 | 484 | 572 | 660 | 704 | 726 | 792 | 836 | 880 | 946 | 990 | 1012 | 1045 | 1078 | 1122 |

Recommended safety factor: steady condns. 1.5 - 2; fluctuating condns. 2-3

TRAP DISCHARGE CAPACITY IN kg/hr

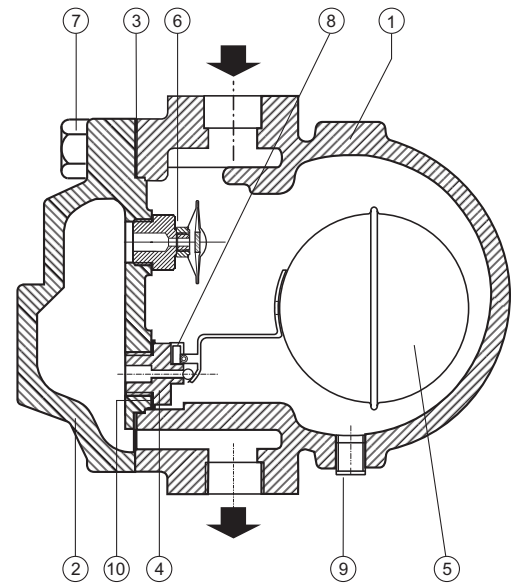
| MODEL | SIZE | DIFFERENTIAL PRESSURE (kg/cm ²) | | | | | | | | | | | | | | | | |
|----------|---------|---|-----|-----|-----|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 0.5 | 1 | 1.5 | 2 | 3 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| PT61-4.5 | DN15,20 | 200 | 280 | 320 | 350 | 400 | 454 | 495 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| PT61-4.5 | DN25 | 530 | 700 | 750 | 879 | 1019 | 1099 | 1229 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| PT61-10 | DN15,20 | 135 | 150 | 165 | 180 | 210 | 241 | 255 | 280 | 300 | 350 | 391 | 405 | 420 | ----- | ----- | ----- | --- |
| PT61-10 | DN25 | 230 | 320 | 370 | 420 | 510 | 570 | 600 | 640 | 680 | 710 | 760 | 800 | 820 | ----- | ----- | ----- | ----- |
| PT61-14 | DN15,20 | 125 | 140 | 150 | 165 | 190 | 221 | 230 | 246 | 271 | 296 | 325 | 350 | 375 | 404 | 430 | 454 | 482 |
| PT61-14 | DN25 | 130 | 160 | 180 | 220 | 260 | 300 | 320 | 330 | 360 | 380 | 400 | 430 | 450 | 460 | 475 | 490 | 510 |

Recommended safety factor: steady condns. 1.5 - 2; fluctuating condns. 2-3

MATERIAL:

| No. | PART | MATERIAL | QTY.(Nos.) |
|-----|--------------------------|-----------------------------|------------|
| 1. | BODY | CAST IRON | 01 |
| 2. | COVER | CAST IRON | 01 |
| 3. | GASKET | CAF / Non CAF | 01 |
| 4. | VALVE SEAT | 13% CR STEEL / AISI 410/420 | 01 |
| 5. | BALL FLOAT & LEVER ASSY. | AISI 304 | 01 |
| 6. | AIR VENT ASSY. | STAINLESS STEEL | 01 |
| 7. | BOLT | HIGH TENSILE | 04 |
| 8. | BRACKET ASSY. | AISI 304 | 01 |
| 9. | DRAIN PLUG | CARBON STEEL | 01 |
| 10. | GASKET | COPPER | 01 |
| 11. | SLR UNIT | AISI 304 | 01 |
| 12. | SPRING | STAINLESS STEEL * | 01 |

* Only for 1" size (Not shown in view)


DIMENSIONS - Nominal in inches (mm)

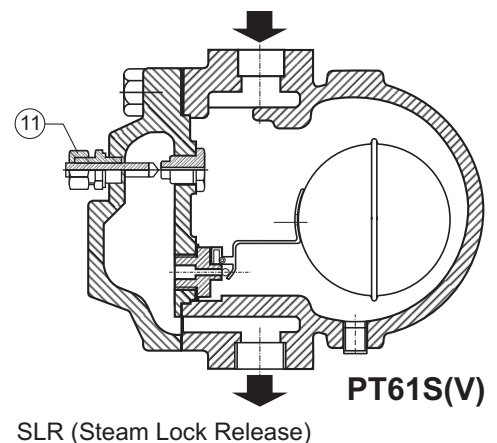
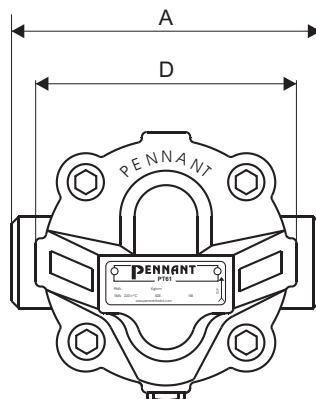
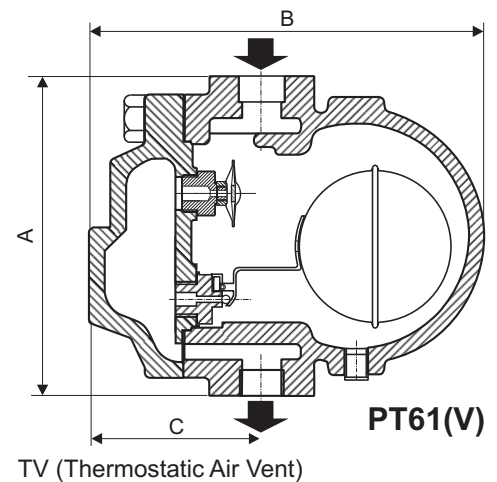
| SIZE | A | B | C | D | Wt . |
|-----------------------------------|-------|-------|------|-------|----------|
| $\frac{1}{2}$ " & $\frac{3}{4}$ " | 5.12 | 5.75 | 2.45 | 4.33 | 7.25 lbs |
| DN15,20 | (130) | (146) | (62) | (110) | 3.3 kg |
| 1" | 5.71 | 6.38 | 2.32 | 4.33 | 9.45 lbs |
| DN25 | (145) | (162) | (59) | (110) | 4.3 kg |

AVAILABLE SPARES:

Valve Seat, Ball Float & Lever Assy., Air Vent, Gaskets.

ORDERING INFORMATION:

Refer to "HOW TO ORDER" page.



Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.