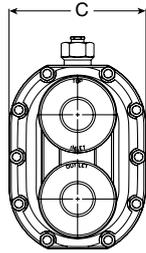


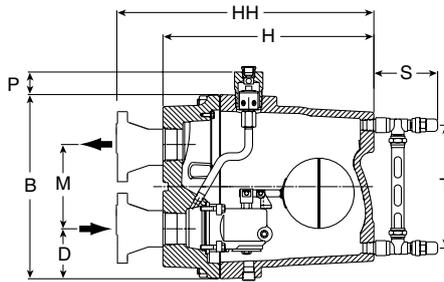


JD & KD Series Ultra-Capacity Float & Thermostatic Steam Traps

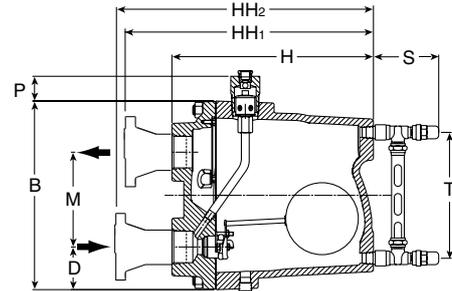
Ductile Iron for Horizontal Installation, with Thermostatic Air Vent
For Pressures to 21 bar...Capacities to 64 400 kg/h



Series JD & KD Cap



Series JD, F&T Shown



Series KD, F&T Shown

Description

The simple, yet rugged, ductile iron construction of the JD & KD Series Ultra-Capacity F&T steam traps offers long, trouble-free service. All floats, valves and seats, and lever mechanisms are constructed of stainless steel.

The integral thermostatic air vent is a balanced-pressure phosphor bronze bellows caged in stainless steel. It is designed especially for heavy-duty industrial applications where highly efficient, uninterrupted service is essential. This balanced-pressure-type air vent will respond to the pressure-temperature curve of steam at any pressure from zero to 21 bar. Thus – up to 21 bar – air is vented at slightly below steam temperature.

Maximum Operating Conditions

Maximum allowable pressure (vessel design):
Model JD & KD 21 bar @ 343°C

Maximum operating pressure:

| | |
|---------------|-------------------------|
| Model 15-JD: | 1 bar saturated steam |
| Model 20-JD: | 1,4 bar saturated steam |
| Model 30-JD: | 2 bar saturated steam |
| Model 75-JD: | 5 bar saturated steam |
| Model 125-JD: | 8,5 bar saturated steam |
| Model 175-JD: | 12 bar saturated steam |
| Model 250-JD: | 17 bar saturated steam |
| Model 300-JD: | 21 bar saturated steam |
| Model 30-KD: | 2 bar saturated steam |
| Model 50-KD: | 3,5 bar saturated steam |
| Model 300-KD: | 21 bar saturated steam |

Maximum back pressure: 99% of inlet pressure
Maximum operating temperature bellows: 217°C

Connections

Screwed BSPT and NPT
Flanged DIN or ANSI (screw on)

Materials

| | |
|------------------------|---|
| Body and cap: | ASTM A395 ductile iron |
| Internals: | All stainless steel – 304 |
| Valve(s) and seat(s): | Stainless steel |
| Drain plug: | Carbon steel |
| Thermostatic air vent: | Stainless steel and bronze with phosphor bronze bellows, caged in stainless steel |

Options

- Integral vacuum breaker 10 bar maximum. Add suffix VB to model number
- No internal thermostatic air vent for liquid drainer service. Add suffix LD to model number
- Integral flash release for syphon drainage service. Add suffix CC to model number
- Armored gauge glass 17 bar @ 218°C

Specification

Float and thermostatic steam trap, type ... in ductile iron, with thermostatic air vent. Maximum allowable back pressure 99% of inlet pressure.

How to Order

| Pressure | Model | Connection Size | Option |
|----------|-------|-----------------|--|
| 75 | JD | 8 | VB |
| 15 | JD | 8 = DN50 | VB = Vacuum Breaker LD = Liquid Drainer CC = Condensate Controller GG = Gauge Glass |
| 20 | | | |
| 30 | | | |
| 75 | | | |
| 125 | | | |
| 175 | KD | 8 = DN50 | |
| 250 | | | |
| 50 | | | |
| 300 | | | |
| | | 10 = DN65 | |
| | | 12 = DN80 | |

Special Configurations

Condensate controller with flash release for syphon drainage and/or cascade service. The condensate controller (CC) configuration was developed especially to meet very large capacity needs in applications where condensate must be lifted from the drain point to the trap. Under such conditions – often referred to as syphon drainage – the reduction in pressure that occurs when the condensate is elevated causes a portion of the condensate to flash into steam. Ordinary traps, unable to differentiate between flash steam and live steam, close and impede drainage.

The JD & KD Series condensate controllers (CC) are equipped with a fixed, restricted orifice near the top of the body to bleed off the flash steam (and all air present). This permits the trap to function properly on condensate.

Liquid drainer with back vent for exceptionally high-capacity drainage of liquid from gas under pressure. The liquid drainer (LD) configuration was developed to meet very large capacity needs in draining water and other liquids from air or other gases under pressure. To prevent air or gas binding, the access port in the top of the body serves as a back vent connection to the equipment being drained. For capacity data, see pages LD-439 and LD-462 or consult your Armstrong Representative.

Table ST-128-1. JD and KD Series Side Inlet, Side Outlet Trap

| Model No. | JD | KD |
|---|------|------------|
| Pipe Connections | 50 | 50, 65, 80 |
| "B" Height | 332 | 332 |
| "C" Width | 246 | 246 |
| "H" Face-to-Face (screwed) | 348 | 373 |
| "HH1" Inlet Face-to-Face (flanged PN40*) | 420 | 448 |
| "HH2" Outlet Face-to-Face (flanged PN40*) | 420 | 548 |
| "D" Bottom to \varnothing | 74,6 | 90 |
| "M" \varnothing to \varnothing | 168 | 152 |
| "P" Trap top to VB top | 46 | 46 |
| "S" (Gauge Glass width) | 114 | 114 |
| "T" (Gauge Glass height) | 222 | 222 |
| Weight in kg (screwed) | 36,3 | 39,5 |
| Weight in kg (flanged PN40*) | 45 | 49 |

Dimensions in mm

* Other flange sizes, ratings and face-to-face dimensions are available on request.
All models are CE Marked according to PED (97/23/EC)

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

JD & KD Series Ultra-Capacity Float & Thermostatic Steam Traps

Ductile Iron for Horizontal Installation, with Thermostatic Air Vent
For Pressures to 21 bar...Capacities to 64 400 kg/h



Table ST-129-1. JD Series Capacity

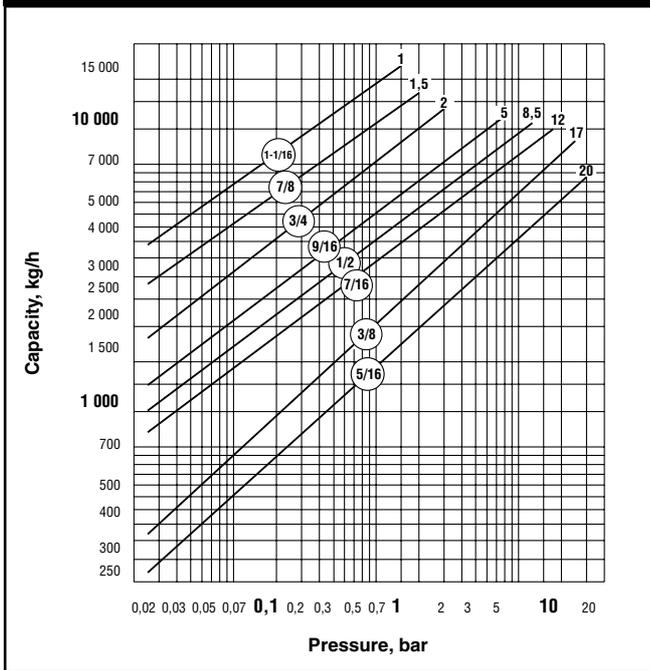
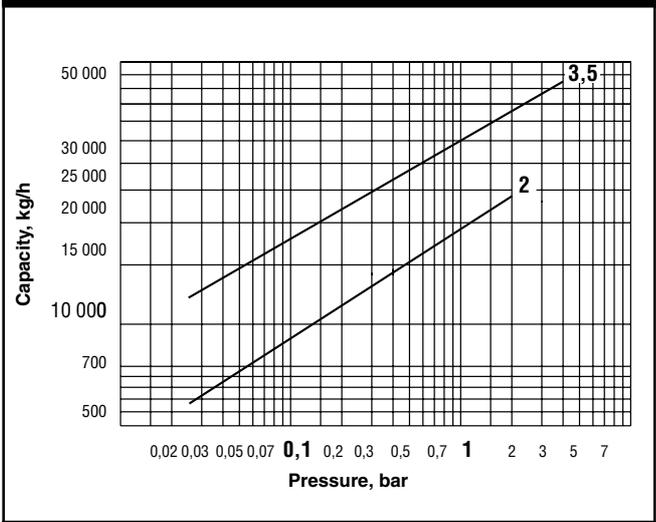


Table ST-129-2. Model 30-K8/50-KD10 Capacity



Options

Vacuum Breaker – 1/2" NPT

Many times, condensate will be retained ahead of steam traps because of the presence of a vacuum. To break a vacuum, air must be introduced into the system by means of a vacuum breaker.

For maximum protection against freezing and water hammer in heating coils under modulated control, for example, vacuum breakers are recommended in conjunction with freeze protection devices.

Table ST-129-2. Vacuum Breaker (dimensions in mm)

| Size | 1/2" NPT | Max. allow. pres. |
|----------------------|----------|-------------------|
| "B" Pipe Connections | 3/8" | 10 bar |
| "C" Height | 30 | |
| "D" Width | 22 Hex | |

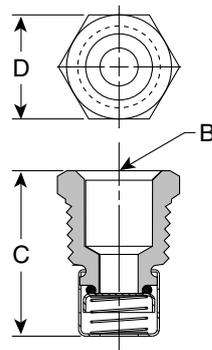


Table ST-129-3. Model 300-KD10 Capacity

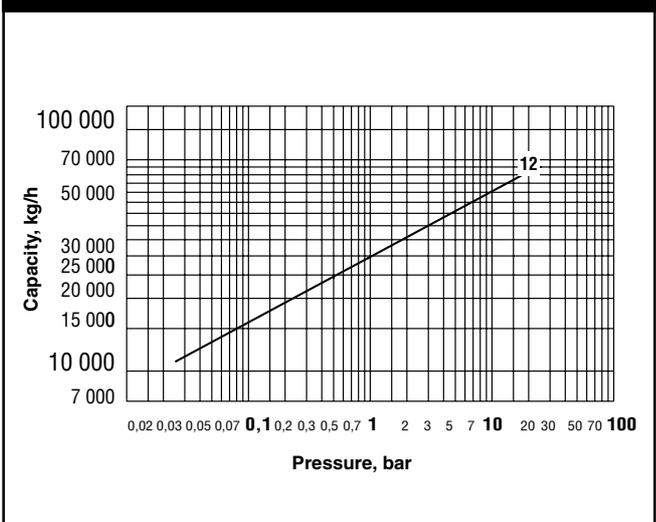
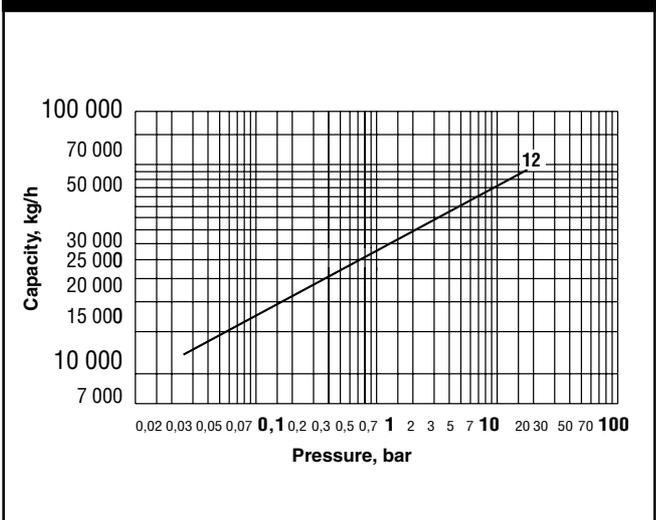


Table ST-129-4. Model 300-KD12 Capacity



All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.