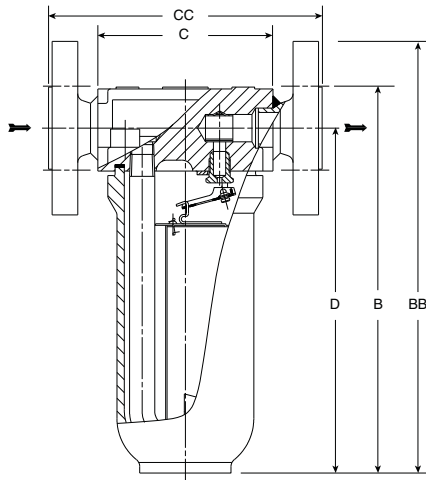


EM Inverted Bucket Steam Trap

Forged Carbon Steel for Horizontal Installation
For Pressures to 32 bar... Capacities to 480 kg/h



Description

Armstrong's type EM forged steel inverted bucket steam trap combines the most reliable steam trap operating principle known in a body, which can be opened for Easy Maintenance.

- High resistance to wear, corrosion and water hammer.
- The free-floating guided lever valve mechanism is "frictionless" with all wear points heavily reinforced. All working parts are stainless steel; valve and seat are hardened chrome steel, individually ground and lapped.
- Freedom from dirt problems. Condensate flow under bottom edge of bucket keeps sediment and "sludge" in suspension until discharged by full differential purging action. Valve orifice opens wide - closes tight. There is no buildup of dirt, no close clearances to be affected by scale. Under normal conditions of reasonably "clean steam", a strainer is not necessary. However, this is left to the user's discretion.
- Air handling ability. Vent in bucket top provides continuous automatic air and CO₂ venting with no cooling leg and prevents air binding. Wiggle wire ensures clean vent hole at all times. Any steam passing through vent is condensed and discharged as liquid.
- No steam loss. Steam does not reach the water-sealed valve.
- Inverted bucket traps require no adjustment and no live steam to operate.

Maximum operating conditions

Maximum allowable pressure
(vessel design)†: 32 bar - 250°C
Maximum operating pressure: 32 bar
Maximum back pressure: 99% of inlet pressure

Connections

Screwed BSPT and NPT
Socketweld
Flanged DIN or ANSI (welded)

Materials

Body: Forged carbon steel
Internals: All stainless steel – 304
Valve and seat: Stainless Steel 17-4PH
Gasket: Spiral wound graphite
Bolts: 24 CrMo5

Options

- Bucket vent scrubbing wire for heavy dirt/oil conditions
- Probe connection (3/8") for use of TrapAlert™, the self-diagnostic steam traps
- For superheated steam we advise stellite valve and seat

Specification

Inverted bucket steam trap, type EM in forged steel, with automatic air vent, free-floating lever mechanism, with the orifice in the top. Maximum allowable back pressure 99% of inlet pressure.

How to order

- Specify:
- Size and type of pipe connection
 - Maximum working pressure that will be encountered or orifice size
 - Maximum condensate load
 - Any options required

Table ST-92-1. Model EM Side Inlet, Side Outlet Trap (dimensions in mm)

Pipe Connections	15	20	25
"C" Face-to-Face (screwed & SW)	98	98	—
"CC" Face-to-Face (flanged PN40*)	150	150	160
"D" Bottom to \varnothing Inlet	189	189	189
"B" Height (screwed & SW)	210	210	—
"BB" Height (flanged PN40*)	235	240	245
Weight in kg (screwed & SW)	3,1	3,1	—
Weight in kg (flanged PN40*)	5,5	7,1	8,1

* Other flange sizes, ratings and face-to-face dimensions are available on request.

All sizes comply with the article 3.3 of the PED (97/23/EC).

† May be derated depending on flange rating and type.

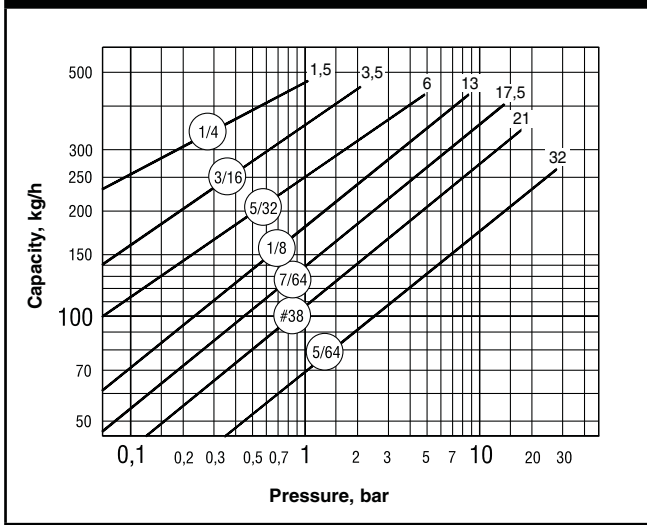
All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

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Table ST-93-1. Model EM Capacity



Steam Trapping and
Steam Tracing Equipment

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