

Description

The most reliable steam trap known – the inverted bucket – provides efficient condensate drainage of virtually all types of steam-using equipment. Put the inverted bucket to work in a tough cast iron package, and you have the best of both worlds. Because they operate efficiently for longer periods of time, Armstrong cast iron inverted buckets add solid energy savings to lower replacement/labor costs. All Armstrong cast iron inverted bucket steam traps are repairable for even bigger maintenance savings.

A unique leverage system multiplies the force provided by the bucket to open the valve against system pressure. The mechanism is free-floating, and has no fixed pivots to create wear or friction.

Because the mechanism is located at the top of the trap, no dirt can collect on the orifice. Small particles of dirt are held in suspension until discharged by the full differential purging action when the bucket sinks, pulling the valve off the seat.

The discharge orifice is surrounded by a water seal, preventing live steam loss. Automatic air venting is provided by a small vent hole in the bucket, which provides continuous automatic air and CO₂ venting at steam temperature.

Inverted bucket traps drain continuously, although discharging intermittently, allowing no condensate backup. They are also resistant to water hammer.

Maximum Operating Conditions

Maximum allowable pressure (vessel design): 17 bar @ 232°C
 Maximum operating pressure: Model 800: 10 bar
 Model 811-813: 17 bar
 Maximum back pressure: 99% of inlet pressure

Connections

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

Materials

Body: ASTM A48 Class 30
 Internals: All stainless steel – 304
 Valve and seat: Hardened chrome steel – 440F
 Test plug: Carbon steel

Options

- Stainless steel internal check valve
- Thermic vent bucket
- Stainless steel pop drain
- Probe connection
- Thermo drain
- Scrub wire

Specification

Inverted bucket steam trap, type ... in cast iron, with continuous air venting at steam temperature, free-floating stainless steel mechanism, and discharge orifice at the top of the trap. Maximum allowable back pressure 99% of inlet pressure.

How to Order

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

Table ST-76-1. 800-813 Series Side Inlet, Side Outlet Trap (dimensions in mm)

Add suffix "CV" to model number for internal check valve, "T" for thermic vent bucket.

Model No.	800*	811	812	813
Pipe Connections	15 – 20	15 – 20 – 25	15 – 20	20 – 25
Test plug	1/4"	1/4"	1/2"	3/4"
"B" Height	138	175	230	298
"C" Face-to-Face (screwed)	127	127 – 127 – 133	165	197
"CC" Face-to-Face (flanged PN40**)	195 – 191	195 – 191 – 197	233 – 229	261
"D" Bottom to \varnothing Inlet	70	108	137	179
Number of Bolts	6			
Weight in kg (screwed)	2,3	2,7	6,8	12,5
Weight in kg (flanged PN40**)	3,6 – 4,3	4,1 – 4,3 – 4,8	8,2 – 9,0	14,3 – 14,8

* Cannot be furnished with both thermic vent bucket and check valve.

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

All models comply with the article 3.3 of the 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.

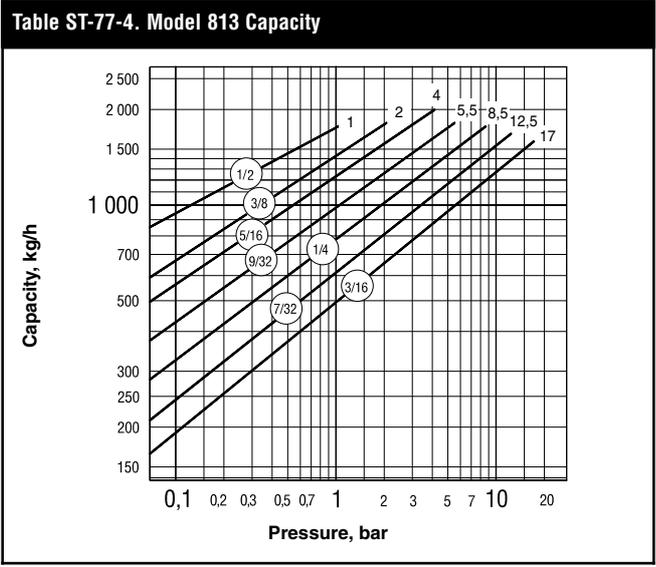
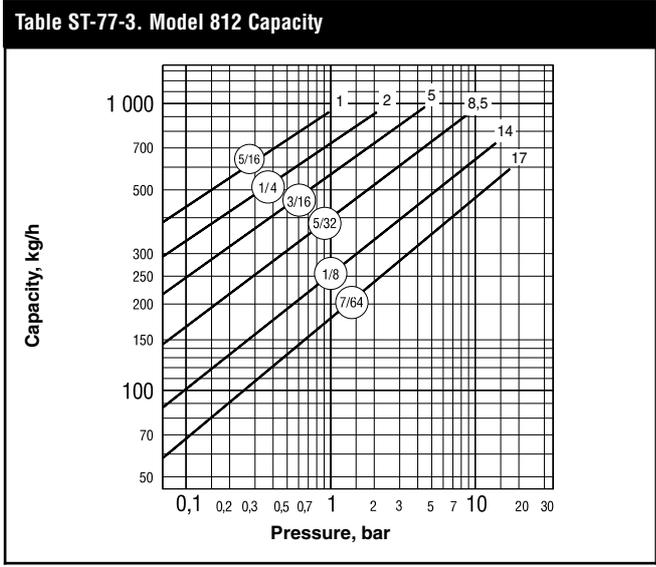
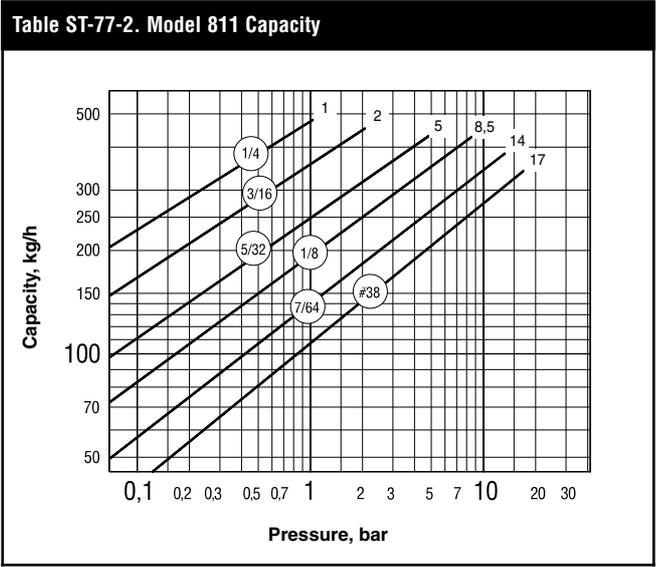
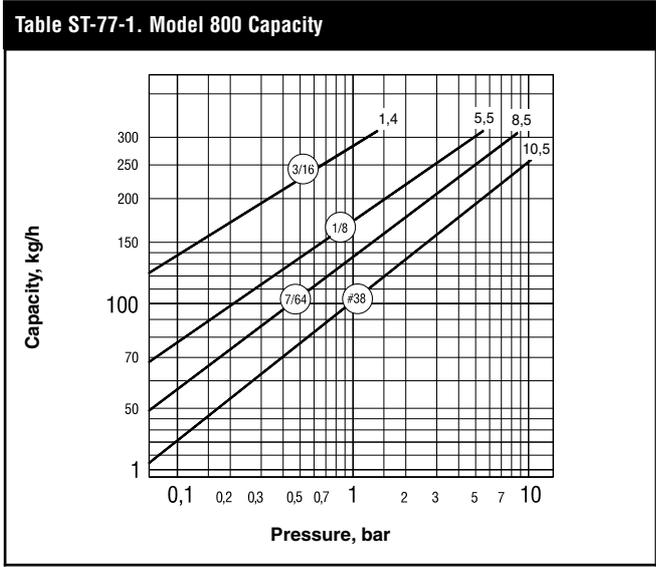
800-813 Series Inverted Bucket Steam Traps

Cast Iron for Horizontal Installation

For Pressures to 17 bar...Capacities to 2 000 kg/h



Steam Traps



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