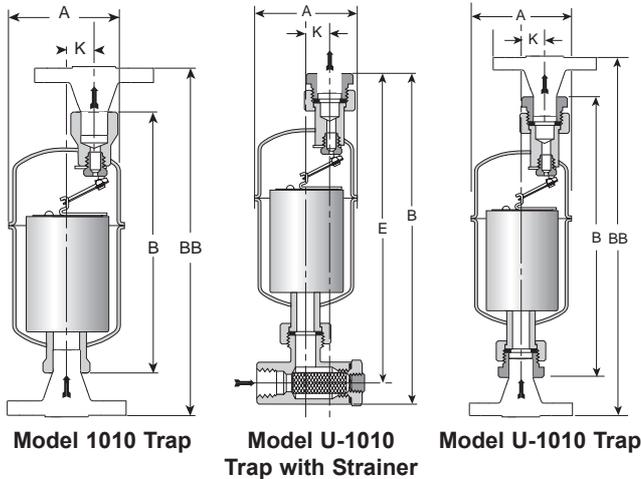


Steam Traps



## Description

Armstrong 1000 Series stainless steel inverted bucket steam traps normally last three to four times longer than conventional traps used in identical services. Heat-treated stainless steel valves and seats are of the same design, material and workmanship as those used in traps for pressures up to 62 bar and temperatures to 482°C. More compact than cast iron or carbon steel equivalents, 1000 Series traps are ideal for trapping applications such as tracer lines, steam mains and heating/process applications.

For simple installation, inspection and replacement, Armstrong offers U-1000 Series all-stainless steel inverted bucket traps with union connections. U-1000 Series are also offered with integral carbon steel strainers with 0,045" perforated stainless steel screens.

Both the 1000 and U-1000 Series are **guaranteed for three years**.

## Maximum Operating Conditions

Maximum allowable pressure (vessel design):

Model 1010, 1011:	28 bar @ 427°C
Model U-1010, U-1011:	28 bar @ 260°C
Model 1022:	45 bar @ 316°C
Model U-1022:	31 bar @ 260°C
Model 1013:	31 bar @ 427°C

Maximum operating pressure:

Model 1010, U-1010:	10,5 bar
Model 1011, U-1011:	28 bar
Model 1022:	45 bar @ 316°C
	43 bar @ 371°C
	41,6 bar @ 427°C
Model U-1022:	31 bar
Model 1013:	31 bar

Maximum back pressure: 99% of inlet pressure

## Connections

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

## Materials

Body:	ASTM A240 Grade 304L
Internals:	All stainless steel – 304
Valve and seat:	Hardened chrome steel – 440F (<38 bar) Titanium (>38 bar)
Strainer body:	Carbon steel
Strainer screen:	Stainless steel

## Options

- Stainless steel internal check valve
- Thermic vent bucket 17 bar maximum; for Model 1022 – 1 bar maximum
- Wiggle wire

## Specification

Inverted bucket steam trap, type ... in all stainless steel, freeze resistant, without gaskets, with continuous air venting at steam temperature, free-floating stainless steel mechanism, and 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-104-1. 1000 Series Bottom Inlet, Top Outlet Trap (dimensions in mm)**

Model No.	1010	1011	1022	1013
Pipe Connections	15 – 20	15 – 20	20	25
"A" Body Outside Diameter	70	70	100	100
"B" Face-to-Face (screwed & SW)	152 – 152 / 137 – 144	183 – 183 / 167 – 175	221 / 217	289 / 289
"BB" Face-to-Face (flanged PN40*)	195 – 200	225 – 230	271	375
"K" $\varnothing$ Outlet to $\varnothing$ Inlet	14	14	23	30
Weight in kg (screwed & SW)	0,7	0,8	2	3,4
Weight in kg (flanged PN40*)	2,1 – 2,8	2,2 – 2,9	4,1	6,0

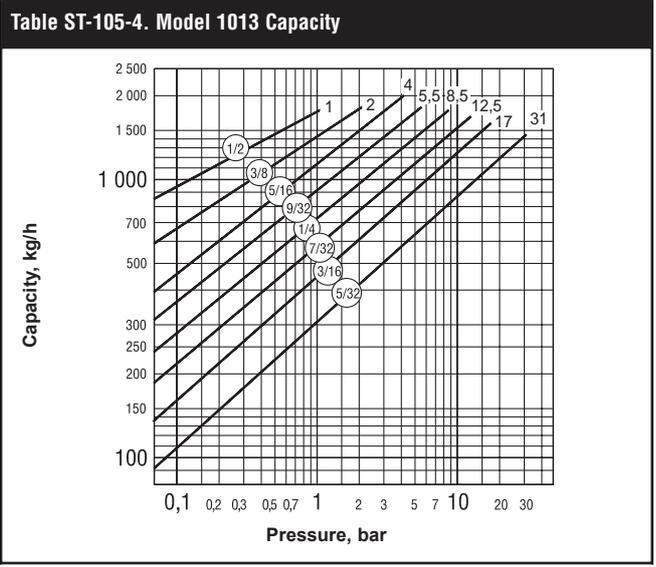
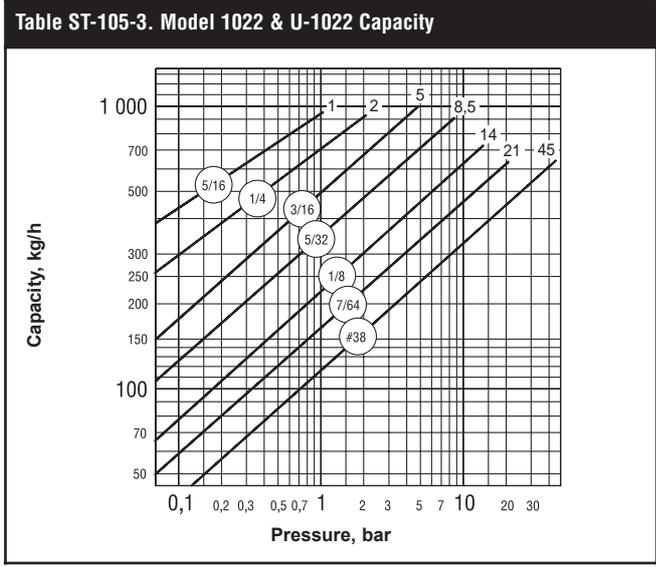
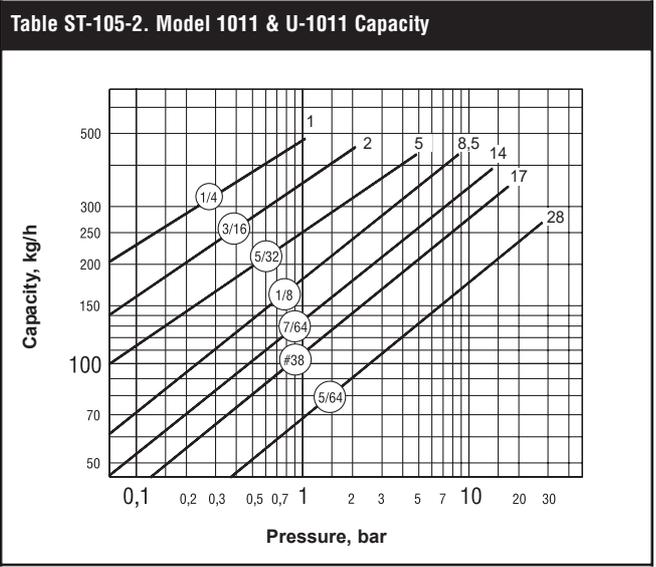
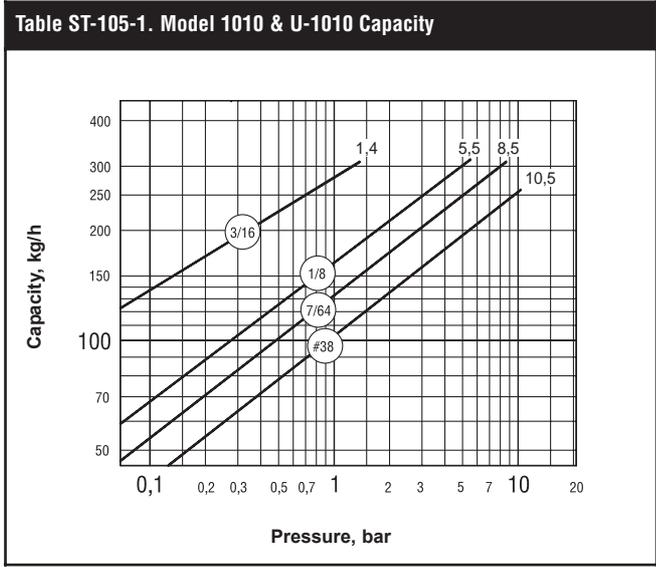
\* Standard flanges are in carbon steel, stainless steel flanges are optional. Other flange sizes, ratings and face-to-face dimensions are available on request. Shade indicates products that are CE Marked according to the PED (97/23/EC). All the other models comply with the Article 3.3 of the same directive.

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

# 1000 & U-1000 Series Inverted Bucket Steam Traps

All Stainless Steel for Vertical Installation (Except U-1000 w/Strainer)

For Pressures to 45 bar...Capacities to 2 000 kg/h



Note: #38 orifice in Model U-1022 is limited to 31 bar.

**Table ST-105-5. U-1000 Series Traps with Union Connections (dimensions in mm)**

Model No.	U-1010	U-1011	U-1022
Pipe Connections	15 – 20	15 – 20	20
“A” Body Outside Diameter	70	70	97
“B” Face-to-Face (screwed & SW)	202	232	278
“B” Face-to-Face (screwed & SW) with Strainer	241	271	318
“K” $\varnothing$ Outlet to $\varnothing$ Inlet	14	14	18
Weight in kg (screwed & SW)	1	1,1	1,7
Weight in kg (screwed & SW) with Strainer	1,6	1,7	2,3

\* Standard flanges are in carbon steel, stainless steel flanges are optional. Other flange sizes, ratings and face-to-face dimensions are available on request.

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