

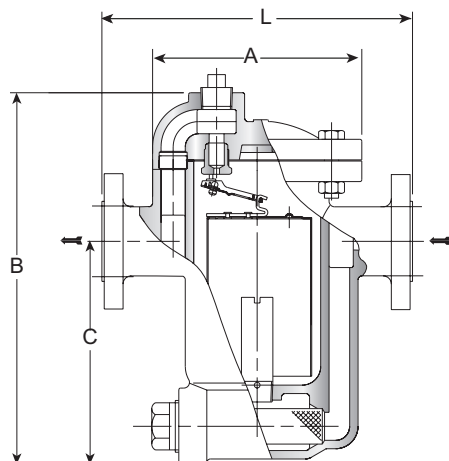


shopvalves.com

# 990F Series Inverted Bucket Steam Traps

Cast Steel for Horizontal Installation With Integral Strainer

For Pressures to 495psig(34bar)... Capacities to 2,000lb/hr(9,072kg/hr)



## Description

Inverted bucket steam trap is the most reliable trap up to now, which can provide high efficiency trap for almost all steam delivery pipe, heat tracing pipe and steam equipment. The inverted bucket in cast steel vessel works stably with long service life, saving not only maintenance cost but also steam energy.

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

Because valve and seat are located at the top of the valve body, no dirt can collect on the orifice. Small particles of dirt are held in suspension until discharged together with condensate water by the full differential purging action when the bucket sinks. The integral strainer further improves the reliability and service life of the trap.

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 CO<sub>2</sub> venting at steam temperature.

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

## Operating Conditions

Max.allowable pressuer (vessel): 3.7MPa@343°C

Max operating pressure difference: Please refer to Capacity Charts

## Connections:

Flange

## Materials

Body and cap: ASTMA216 WCB

Internals: 304SS

Valve and seat: 17-4PH H900

Strainer: 304SS

## Options

Integral stainless steel check valve (add suffix CV)

Thermic vent bucket (add suffix T)

Large vent bucket (add suffix LV)

Scrub Wire (for gas trap, add suffix BVSU)

990F Series Traps															
Model	991F			992F			993F			994F		995F		996F	
Pipe Connections (DN)	15	20	25	15	20	25	20	25	32	25	32	40	50	50	65
Test Orifice Diameter (DN)	6			15			20			25		40		50	
A mm	114			143			184			203		233		296	
B mm	199			244			313			380		446		524	
C mm	112			146			192			232		239		265	
L mm	195			230			260			310		350		420	
Cap Bolt Number	6			6			6			8					
Weight kg	6.5	7.5	8.1	9.1	10.0	10.6	18.8	19.7	20.3	27.6	28.2	41.7	42.3	68.6	70.3

Note: \*Flange connection standard is HG20592 PN40, ASMEB16.5CL150/CL300, and please contact the factory for other standard.

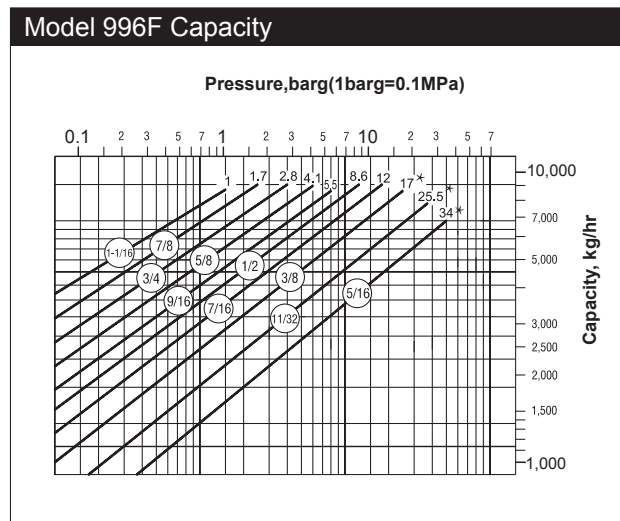
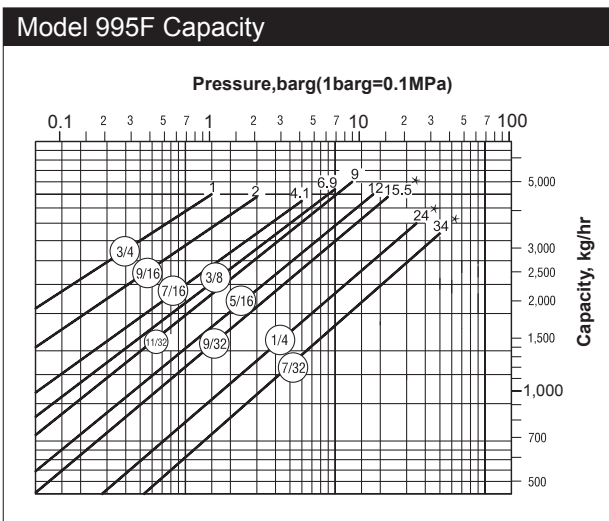
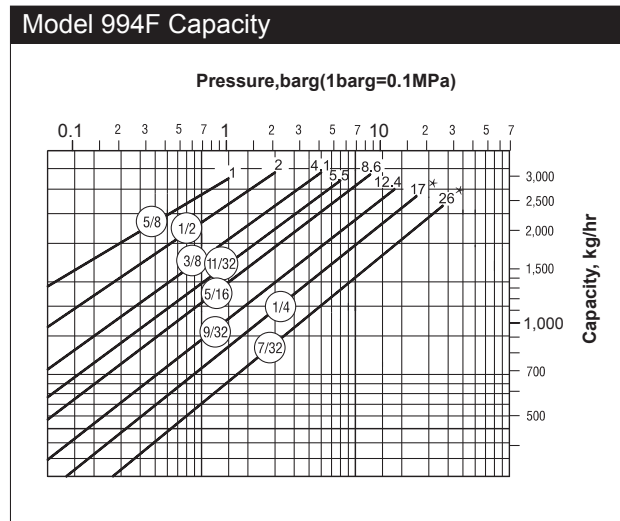
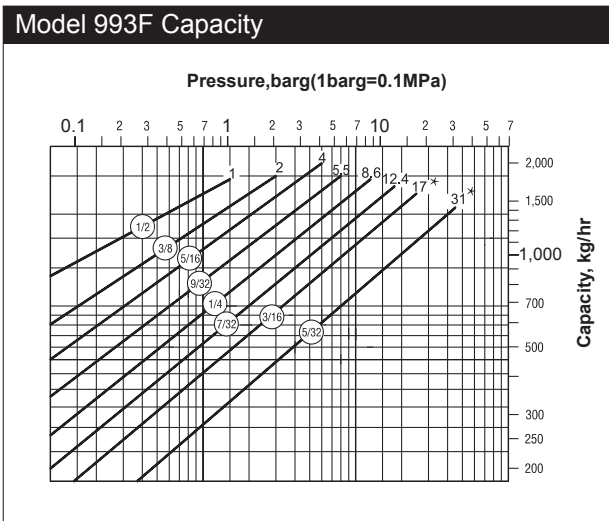
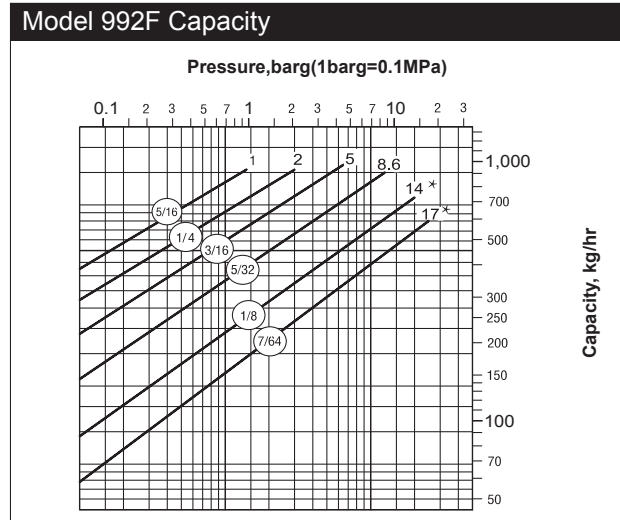
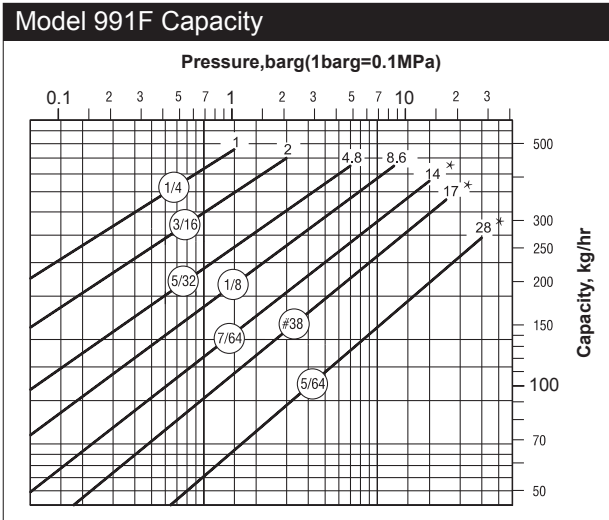
Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit [armstronginternational.com](http://armstronginternational.com) for up-to-date information.

North America • Latin America • India • Europe / Middle East / Africa • China • Pacific Rim  
armstronginternational.com

# 990F Series Inverted Bucket Steam Traps

## Cast Steel for Horizontal Installation With Integral Strainer

For Pressures to 495psig(34bar)... Capacities to 2,000lb/hr(9,072kg/hr)



Note: ASME B16.5 CL150 flanges are not applicable for the \*orifices

### How to Order

Specify: • Model • Nominal diameter • Valve orifice size • Connection type and standard • Options

Designs, materials, weights and performance ratings are approximate and subject to change without notice. Visit [armstronginternational.com](http://armstronginternational.com) for up-to-date information.