

spirax sarco®

Forged Steel Inverted Bucket Steam Trap Series 600

The trap contains an inverted bucket mechanism which responds to the difference in density between steam and condensate. The discharge action is cyclic. Condensate and non-condensibles are discharged close to steam temperature.

Model	621	622	623	625	626
PMO	600 psig (see below)				
Sizes	1/2"	3/4"	1"	1-1/2"	2"
Connections	ANSI 300/600 RF Flanges*				
Construction	Forged Alloy Steel Body, Stainless Steel Internals				

* The trap will accept either ANSI 300 or 600 connecting flanges

Limiting Operating Conditions

Max. Operating Pressure (PMO)

	Model #	psig	barg
1/2"	621/7	600	41
	621/8	450	31
	621/10	250	17
	621/12	120	8.5
3/4"	622/7	600	41
	622/8	450	31
	622/10	250	17
	622/12	120	8.5
1"	623/8	600	41
	623/10	450	31
	623/12	250	17
	623/16	120	8.5
1-1/2"	625/12	600	41
	625/14	450	31
	625/18	250	17
	625/22	120	8.5
2"	626/18	600	41
	626/20	450	31
	626/24	250	17
	626/32	120	8.5

Max. Operating Temperature

800°F (427°C) at all pressures

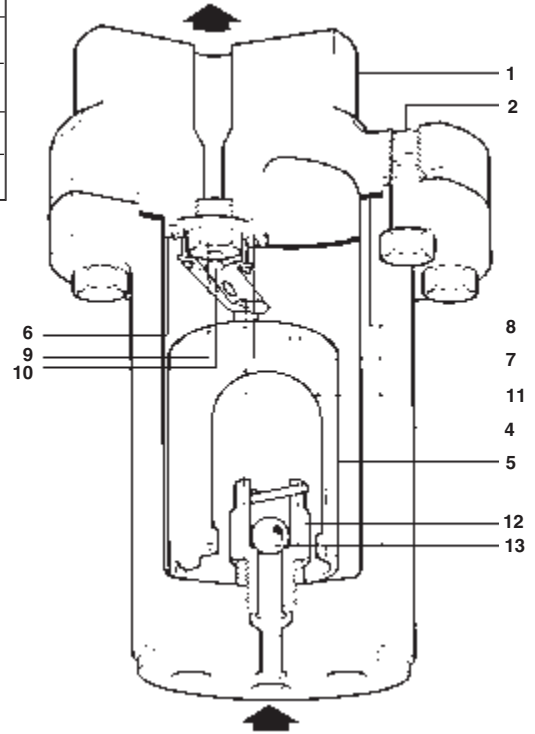
Pressure Shell Design Conditions

PMA 600 psig/up to 800°F 41 barg/up to 427°C

Max. allowable pressure

TMA 800°F/0-600 psig 427°C/0-41 barg

Max. allowable temperature



Capacities

See TIS 2.405

Typical Applications

Steam main drip stations, laundry equipment, industrial dryers and storage tanks.

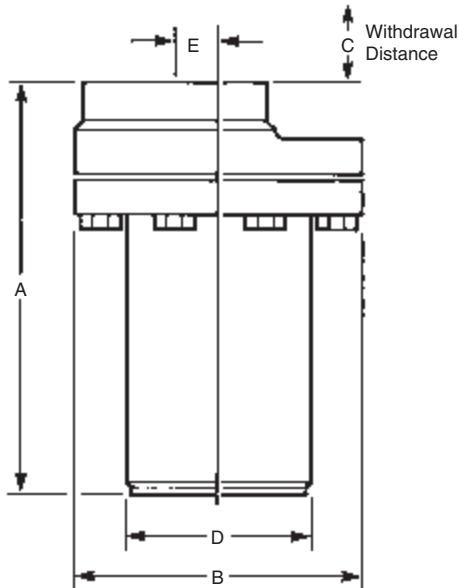
Construction Materials

No.	Part	Material	
1	Cover	Forged Steel	ASTM A 182 F11
2	Cover Bolts	Steel	ASTM A 193 GR 37
4	Body	Forged Steel	ASTM A 182 F11
5	Bucket	Stainless Steel	AISI 304
6	Valve Guide Plate Screws	Stainless Steel	BS 4183 (18/8)
7	Valve Guide Plate	Stainless Steel	AISI 304
8	Cover Gasket	Nickel Reinforced Exfoliated Graphite	
9	Valve Seat	Stainless Steel	AISI 440B
10	Valve	Stainless Steel	AISI 440B
11	Valve Lever	Stainless Steel	AISI 321
12	Internal Tube	Mild Steel	BS 1387 Heavy
13	Ball Check Valve	Steel	AISI 440B

Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.
In the interests of development and improvement of the product, we reserve the right to change the specification.

TI-2-402-US 01.11

Forged Steel Inverted Bucket Steam Trap Series 600



Dimensions (nominal) in inches and millimeters

Size	A	B	C	D	E	Weight
1/2" & 3/4"	10.6 270	7.3 185	8.0 203	4.7 121	1.1 28	40 lb 18.1 kg
1"	12.2 310	8.0 203	9.0 229	5.1 130	1.4 36	65 lb 29.5 kg
1-1/2"	15.8 401	9.8 248	12.0 305	6.6 168	1.8 45	110 lb 49.9 kg
2"	17.8 452	11.9 301	13.0 330	8.4 213	2.1 52	175 lb 79.4 kg

Installation

A pipeline strainer should be installed ahead of any trap to protect the head and seat from dirt and scale. Suitable full-port isolation valves should be placed around trap to permit servicing. The trap should be installed below the equipment drainage connection in a vertical position with the inlet at the bottom so that the bucket will rise and fall vertically.

Sample Specification

Steam traps shall be of the mechanical inverted bucket type with forged steel bodies with ANSI flanged vertical connections and stainless steel internals.

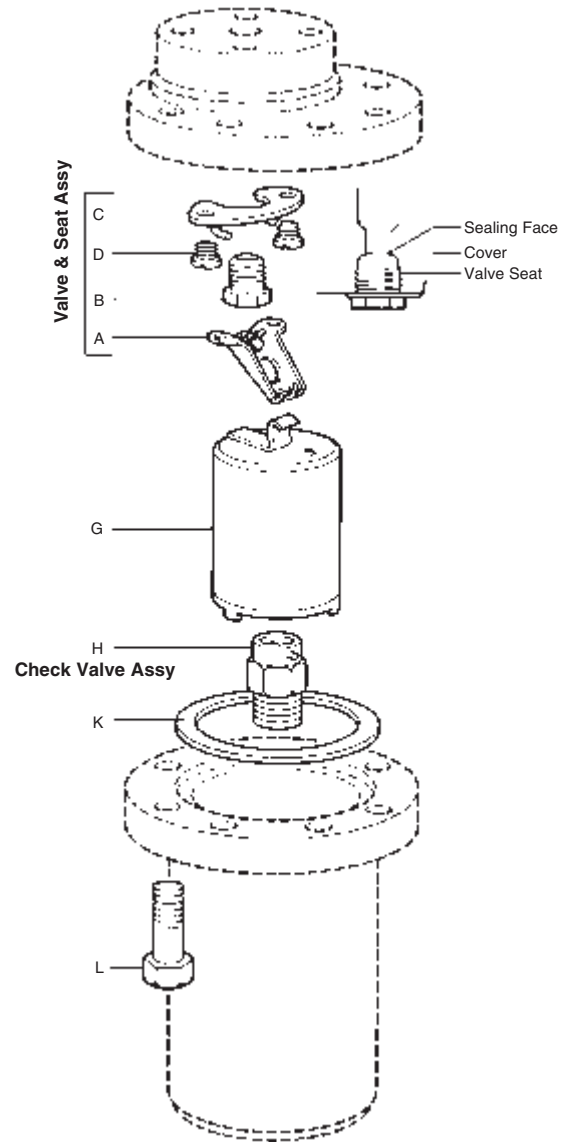
Maintenance

This product must be removed from the line for maintenance. Complete isolation of the trap from both supply and return line is required before any servicing is performed.

The trap should be disassembled periodically for inspection and cleaning of the valve head and seat, and operating mechanism. The bucket vent hole must be clear. Worn or damaged parts should be replaced using a complete valve and seat assembly.

Complete installation and maintenance instructions are given in IMI 2.400, which accompanies the product.

Spare Parts



Valve & Seat Assembly (State pressure range)	A, B, C (2 of) D
Bucket	G
Check Valve Assembly	H
Cover Gasket	(pkt of 3) K
Set of Cover Bolts	L
	621, 622, 623, (8 of) 625 (10 of) 626 (12 of)