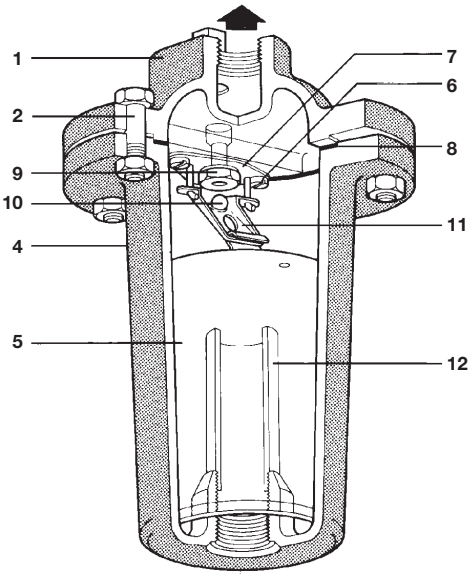
Cast Iron Inverted Bucket Steam Trap
Series 200

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	211	212	213	215	216
PMO	250 psig (see below)				
Sizes	1/2"	3/4"	1"	1-1/2"	2"
Connections	NPT				
Construction	Cast Iron Body, Stainless Steel Internals				



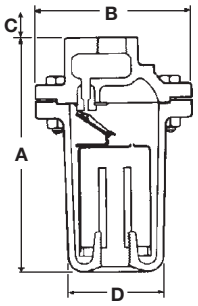
Construction Materials

No.	Part	Material	
1	Cover	Cast Iron	DIN 1691 GG 20
2	Cover Bolts UNC	Steel	BS 3692 Gr.8.8
	Cover Nuts	Steel	BS 3692 Gr.8
4	Body	Cast Iron	DIN 1691 GG 20
5	Bucket	Stainless Steel	A 240 Type 321
6	Valve Guide Plate Screws	Stainless Steel	B 18.6.3
7	Valve Guide Plate	Stainless Steel	A 240 Type 321
8	Cover Gasket	Nickel Reinforced Exfoliated Graphite	
9	Valve Seat	Stainless Steel	AISI 440 B
10	Valve	Stainless Steel	AISI 440 B
11	Valve Lever	Stainless Steel	A 240 Type 321
12	Internal Tube	Steel	A 105 Gr. A

Typical Applications

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

Capacities: See TIS 2.405



Dimensions (nominal) in inches and millimeters

Size	A	B	C	D	Weight
1/2"	6.4	4.3	7.0	2.6	6.25 lb
	163	*108*	*178*	*67*	*2.8 kg*
3/4"	7.9	5.3	9.0	3.7	11.5 lb
	200	135	229	93	5.2 *kg*
1"	10.6	7.4	11.0	4.5	27.0 lb
	269	*188*	*280*	*114*	*12.2 kg*
1-1/2"	14.4	9.4	15.0	5.5	59.0 lb
	365	*238*	*380*	*140*	*27.0 kg*
2"	17.0	11.3	18.5	7.2	96.0 lb
	450	*286*	*457*	*165*	*49.4 kg*

Limiting Operating Conditions

Max. Operating Pressure (PMO)

	Model #	psig	*barg*
1/2"	211/6	250	*17*
	211/7	200	*13.8*
	211/8	120	*8.5*
	211/10	60	*4*
	211/12	30	*2*
3/4"	212/7	250	*17*
	212/8	200	*13.8*
	212/10	120	*8.5*
	212/12	60	*4*
	212/16	30	*2*
1"	213/12	250	*17*
	213/14	180	*12.5*
	213/16	120	*8.5*
	213/20	60	*4*
	213/24	30	*2*
1-1/2"	215/18	250	*17*
	215/20	180	*12.5*
	215/22	120	*8.5*
	215/28	60	*4*
	215/36	30	*2*
2"	216/24	250	*17*
	216/32	120	*8.5*
	216/40	60	*4*
	216/48	36	*2.5*

Max. Operating Temperature *

410˚F (*210˚C*) at all operating pressures

* For superheated steam applications, a check valve should be installed at the trap inlet.

Pressure Shell Design Conditions

PMA Max. allowable pressure: 319 psig/up to 410˚F; *22 barg/0-210˚C*

TMA Max. allowable temperature: 410˚F/up to 319 psig; *210˚C/0-22 barg*

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.

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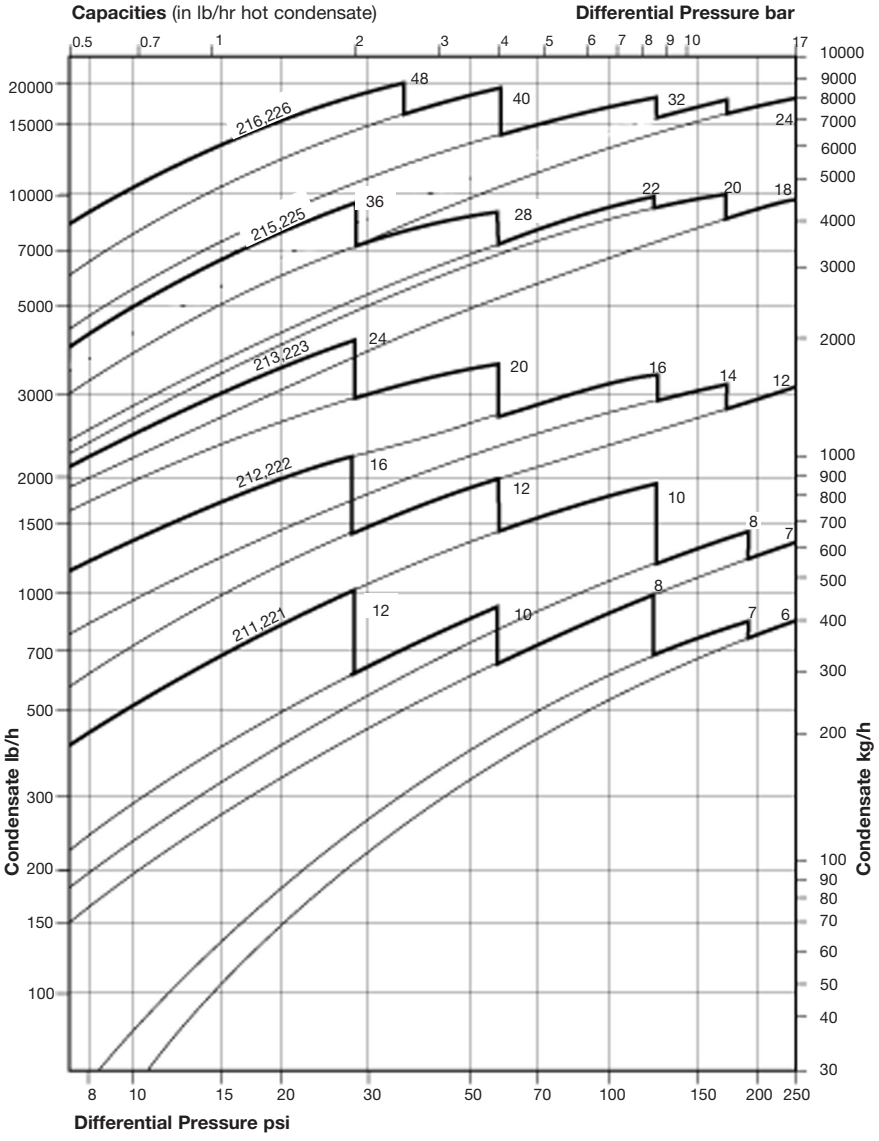
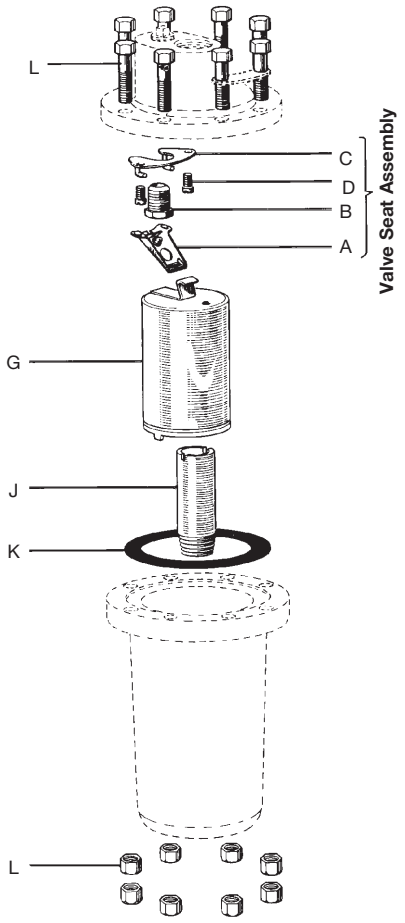
Sample Specification
Steam traps shall be of the mechanical inverted bucket type with cast iron bodies with screwed NPT vertical connections and stainless steel internals.

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.

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
Internal Tube	J
Cover Gasket	(pkt of 3) K
Set of Cover Nuts & Studs	1/2" - 6 of L 3/4" - 8 of 1" - 10 of 1-1/2 & 2" - 12 of

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