

FIG 21 CAST IRON INVERTED BUCKET STEAM TRAP (MODEL B1)

NICOSON®

WHY CHOOSE NICOSON INVERTED BUCKET TRAPS ?

1. Water sealed against steam loss

Discharge valve is water sealed. Steam does not reach it.

2. Operating against water hammer and hydraulic shock

Cage type water Hammer Resistor can dispersing water hammer or hydraulic shock wave. This prevent the bucket from smashing against and damage the mechanism

3. Long life service

Valve and seat are chrome steel hardened, ground and lapped. All other working parts are wear and corrosion resistant stainless steel.

4. Continuous air and co₂ venting

Vent in top of bucket provides continuous automatic air venting and co₂ venting at steam temperature.

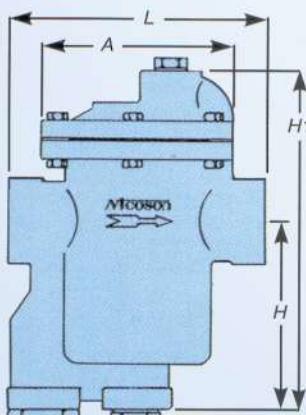
5. High back pressure operation

Since trap operation is governed solely by the difference in density of steam and water, back pressure in the return line has no effect on the ability of the trap to open for condensate and close against steam.

NICOSON INVERTED BUCKET STEAM TRAP SPECIFICATION AND DIMENSIONS

SCREWED TYPE

Trap Model	connection PT	L M/M	H	H1	A	Weight KG	M.O.P Kg/cm ²
B1	1/2", 3/4", 1"	128	100	175	96	3.5	10



All Specifications are subject to change without notice

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INDUSTRIAL VALVE & ENGINEERING SUPPLIES

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FIG 21 CAST IRON INVERTED BUCKET STEAM TRAP (MODEL B1)

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CONTINUOUS AIR VENTING

Vent in top of bucket provides continuous automatic air venting and prevents air binding. Steam passing through the vent is less than that required to compensate for radiation loss from the trap so it is not wasted.

NAME PLATE

NO STEAM LOSS

Discharge valve is water seal. Steam does not reach it.

LONG LIFE AND DEPENDABLE SERVICE

Valve and seat are chrome steel, heat treated, ground and lapped. Free floating valve mechanism is frictionless. Wear point are heavily reinforced.

CO₂ VENTING AT STEAM TEMPERATURE

Fixed vent passes CO₂ immediately. Since the trap operates on the difference in density between steam and water there is no cooling lag that would permit CO₂ to go into solution and from corrosive carbonic acid.

INTEGRAL STRAINER DESIGN IS FREE FROM DIRT PROBLEMS

Stainless steel integral strainer. Dirt does not reach trap.

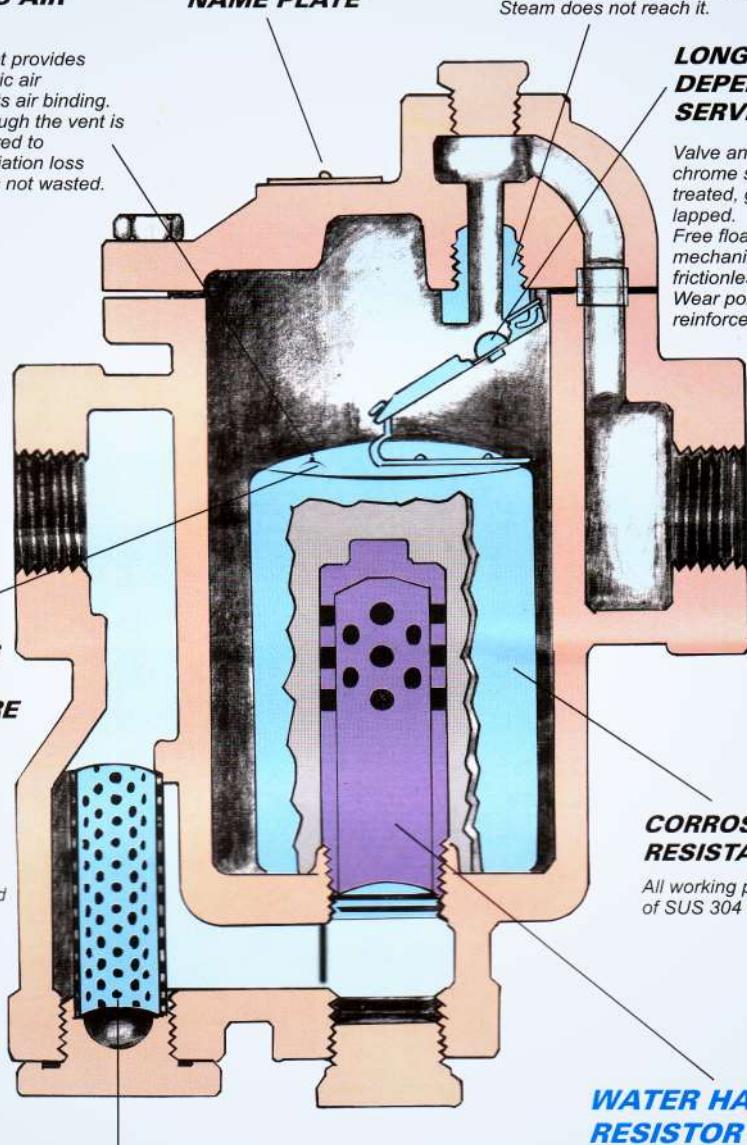
CORROSION RESISTANCE

All working parts are made of SUS 304 stainless steel.

WATER HAMMER RESISTOR

Cage type water hammer resistor can dispersing water hammer or hydraulic shock wave. This prevent the bucket from smashing against and damage the mechanism.

INLET → **OUTLET** →



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FIG 21 CAST IRON INVERTED BUCKET STEAM TRAP (MODEL B1)

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NICOSON INVERTED BUCKET TRAPS CAPACITY TABLE

Trap Model	Trap Max. Operating Pressure kg/cm ²	CAPACITY IN KG/HR AT INLET DIFFERENTIAL PRESSURE kg/cm ²								
		1	2	3	5	6	8	10	-	-
B1,	3	350	480	510						
	5	240	330	380	450					
	10	180	240	290	350	370	400	400		

Inverted bucket steam trap selection using NICOSON CAPACITY TABLE is easy, when you know the Condensate load, Safty factor and Pressure differential.

EXAMPLE:

Given :

1. Steam supply — 8 kg/cm²
2. Condensate load — 600 kg/hr
3. Safty factor — 3

Time 3 to 600 = 1,800 kg/hr

Enter Table on Max. Operating pressure 10 kg/cm² row at 8 kg/cm² Inlet differential pressure.

We find Trap Model B3, Max. Operating Pressure 10 kg/cm² type, Capacity is 2,100 kg/hr. Can handle that jobs.

List Of Materials, NICOSON Cast Iron Traps

Name of part	Material
Cap and Body	Tensile Cast Iron Fc 22
Valve Seat	Heat Treated Chrome Steel
Valve	Heat Treated Chrome Steel
Gasket	Compressed Asbestos
Lever	Stainless Steel SUS 304
Valve Retainer	Stainless Steel SUS 304
Bucket	Stainless Steel SUS 304
Integral Strainer	Stainless Steel SUS 304
Water Hammer	Steel
Resister	

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