SpenoMatic energy solutions

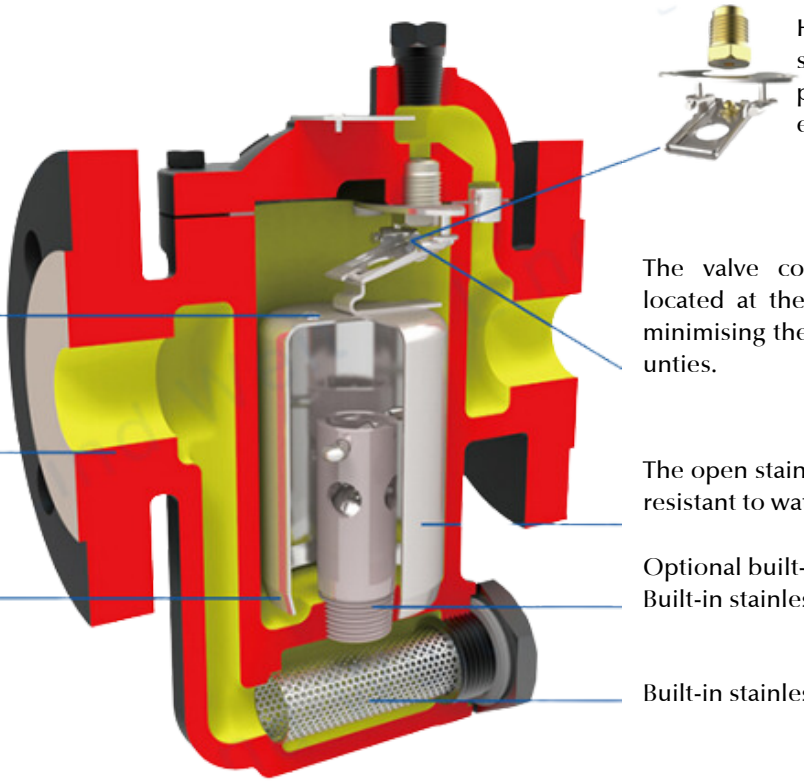
INVERTED BUCKET STEAM TRAPS



Designed and made as per GERMAN Standard

spenomaticenergysolutions.com

INVERTED BUCKET STEAM TRAPS

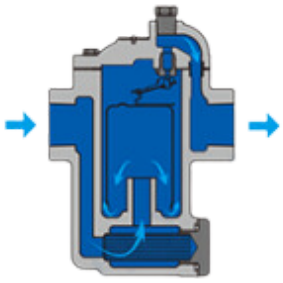


Features

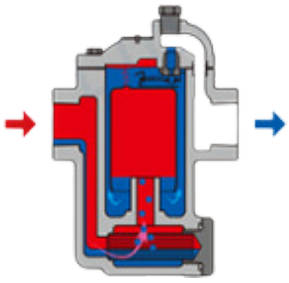
- Suitable for recycling systems.
- Alloy steel and hardened valve core and valve seat.
- Built-in filter screen, saving installation cost and space.
- Can be used in superheated steam systems when equipped with a built-in check valve at the inlet.
- When at saturated steam temperature, able to discharge condensate, exhaust air and non-condensable gas.
- In the failure state, the steam trap is fully opened, ensuring no accumulation of condensate in the pipeline or equipment.
- The open stainless steel bucket is more resistant to water hammer and will not be deformed or damaged.
- Low failure rate. The valve core and valve seat are located at the top Of the valve body, reducing the risk of impurities accumulating on the valve seat.
- For condensate recovery system, built-in check valve (Optional) can be selected to save cost and installation space.

INVERTED BUCKET STEAM TRAPS

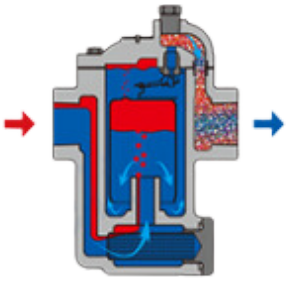
Working Principle



When condensed water enters the trap, it first forms a water seal. The condensate reaches the top of the steam trap from both sides of the bucket. The weight of the bucket opens the valve and the condensate is discharged.



When the steam enters, the bucket rises due to the water seal. thereby closing the steam trap.

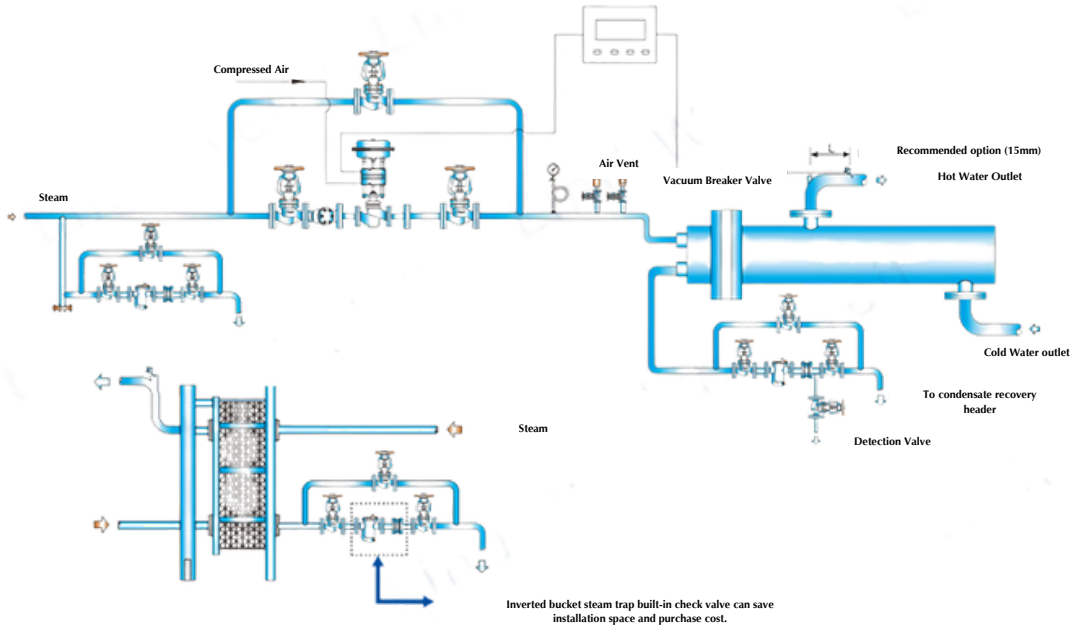


Part of the steam condenses and part of the steam escapes through the small hole on the top of the bucket. Under the action of gravity, the bucket lowers and the steam trap opens to discharge the condensate. This drain action is repeated continuously.

Typical Application

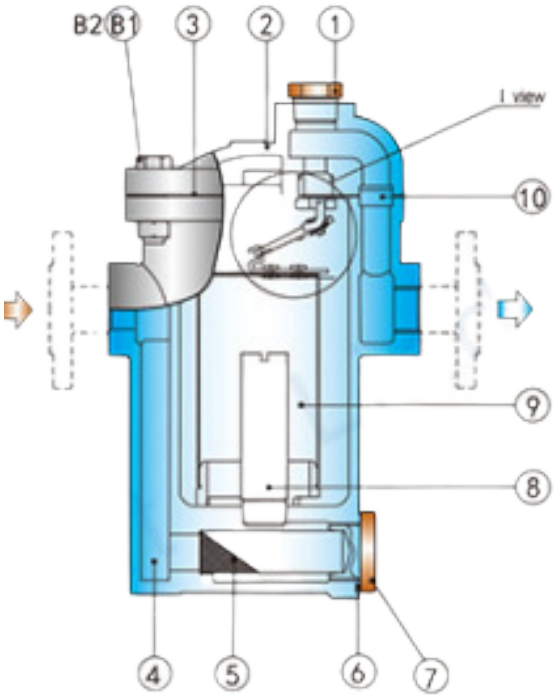
Inverted Bucket Steam Traps are usually used in systems that need to provide efficient drainage, such as steam main lines, heat tracing lines, and heating equipment using steam. including: boiler sub-cylinders, steam-water separators, heat tracing pipelines, nash vessels, Oil storage tank heating, tire molding machines. vulcanising machines, fan coils, air heaters, heat sinks, jacketed kettles and other heaters or heat exchanger process equipment.

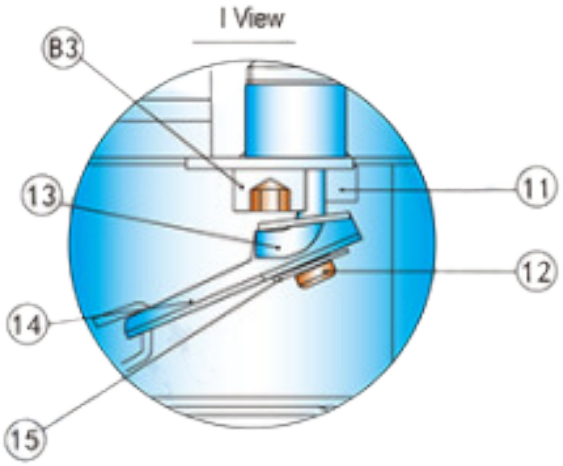
Widely used in various industries such as hotels and hospitals, and manufacturing sectors including tobacco, pharmaceuticals, food, beverages, steel, paper, textiles, printing and dyeing. chemicals and electric power.



INVERTED BUCKET STEAM TRAPS

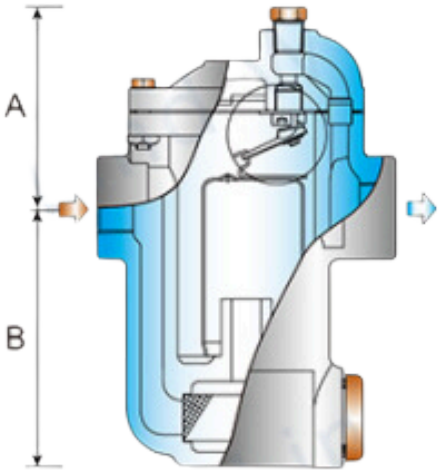
Materials

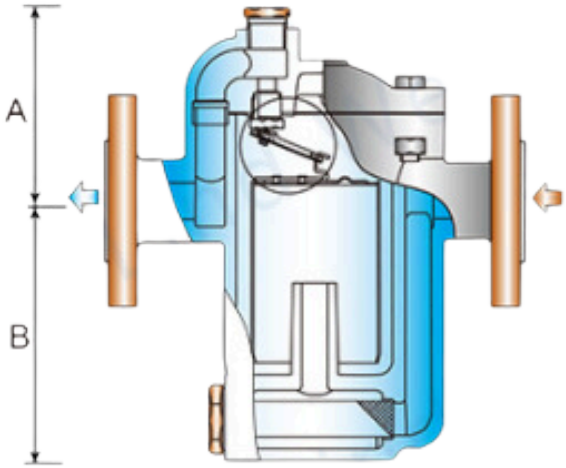


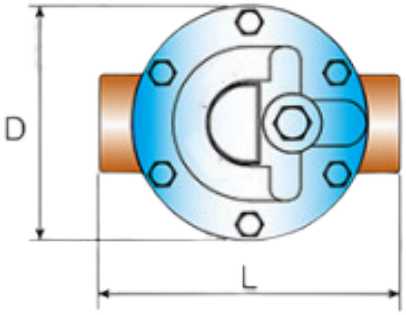


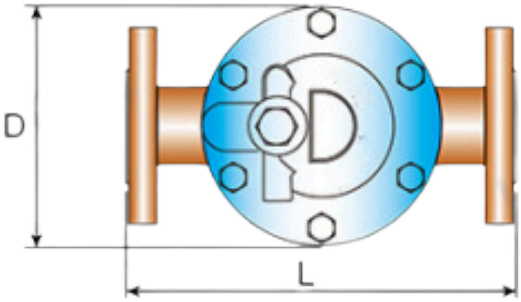
No	Part	Material	Qty	No	Part	Material	Qty
1	Plug	Carbon steel	1	9	Bucket	Stainless steel	1
2	Valve cover	Ductile iron: L211/L214 Cast steel: L214/L215/L216	1	10	Ring	Stainless steel	1
3	Cover gasket	Graphite gasket	1	11	Valve Seat	Stainless steel	1
4	Body	Ductile iron: L211/L214 Cast steel: L214/L215/L216	1	12	Valve core	Stainless steel	1
				13	Valve guide plate	Stainless steel	1
5	Filter screen	Stainless steel	1	14	Valve lever	Stainless steel	1
6	Filter gasket	Graphite gasket	1	15	Valve fixing plate	Stainless steel	1
7	Filter plug	Carbon steel	1	B1	Hex bolts	Carbon steel	6
8	Water seal column	Carbon steel	1	B2	Hex nuts	Carbon steel	2
				B3	Slotted round head bolt	Stainless steel	2

INVERTED BUCKET STEAM TRAPS









Model	SKLIB211	SKLIB211	SKLIB214	SKLIB214	SKLIB215	SKLIB215	SKLIB216
	screwed	flanged	screwed	flanged	screwed	flanged	flanged
Size (DN)	15, 20, 25	15, 20, 25	25, 32	25, 32, 40	40, 50	40, 50	50, 65
A (mm)	78	78	180	180	220	220	275
B (mm)	115	115	200	200	216	216	265
L (mm)	132, 138	155, 165	230	324	260	350	420
D (mm)	103	103	204	204	230	230	296
Weight (Screwed)	3.6,3.6,4	-	24	-	35	-	-
Weight (Flanged)	-	5, 5.2, 6		25, 27, 28		38, 39	68, 69

* Installation Size and type Of connection can be customzed according to requirements.

INVERTED BUCKET STEAM TRAPS

Operating Range

Model	SKLIB211, SKLIB214, SKLIB215, SKLIB216
Max. operating pressure (PMO)	17 bar
Max. operating temperature (TMO)	230°C
Max. allowable operating temperature (TMA)	210°C @ 17 bar



Operating Range

Model	SKLIB211	SKLIB214	SKLIB215	SKLIB216
Size	15, 20, 25	25, 32, 40	40, 50	50, 65
Type of connection	• Screwed (BSP, NPT) • Flanged (DIN, ASME)	• Screwed (BSP, NPT) • Flanged (DIN, ASME)	• Screwed (BSP, NPT) • Flanged (DIN, ASME)	• Screwed (BSP, NPT) • Flanged (DIN, ASME)

Contact us for custom connection types

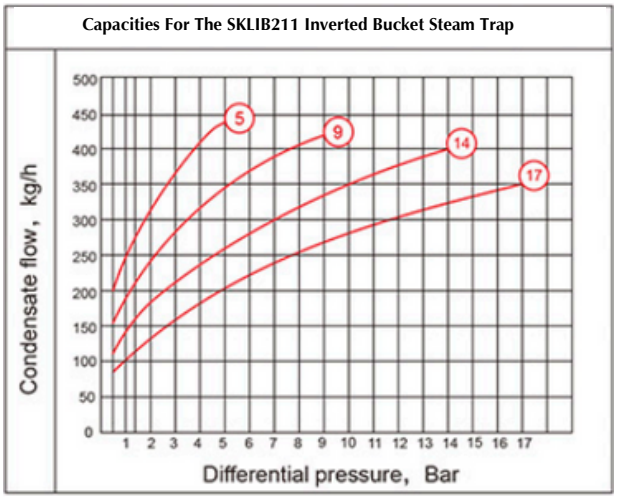
Please provide the following information when ordering:

1. Operating pressure, back pressure
2. Operating temperature
3. Type of connection
4. Flow
5. Size

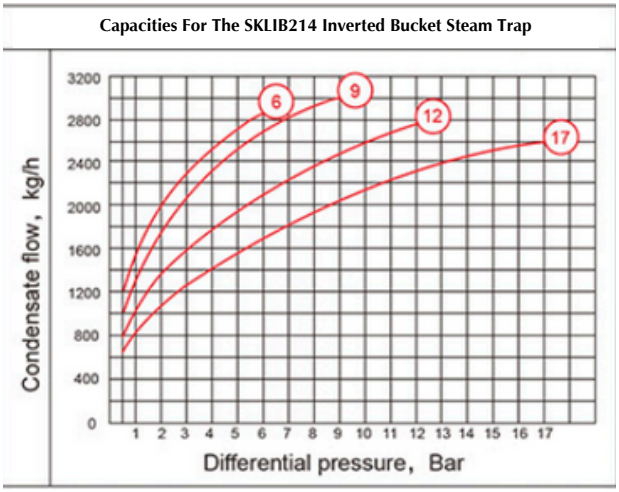
• Please ask the manufacturer for special sizes and condensate flows.

INVERTED BUCKET STEAM TRAPS

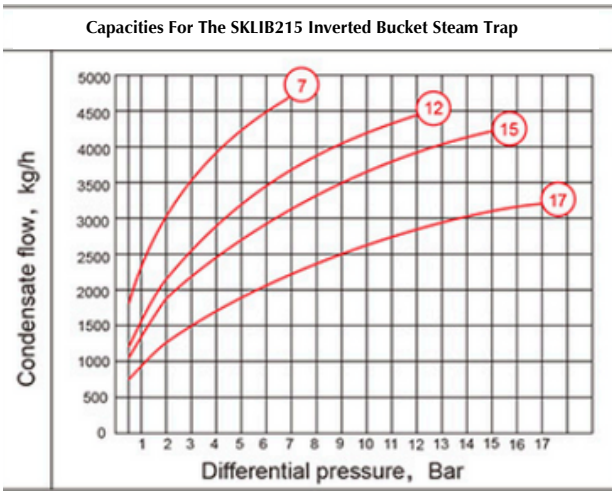
Capacities For The SKLIB211 Inverted Bucket Steam Trap



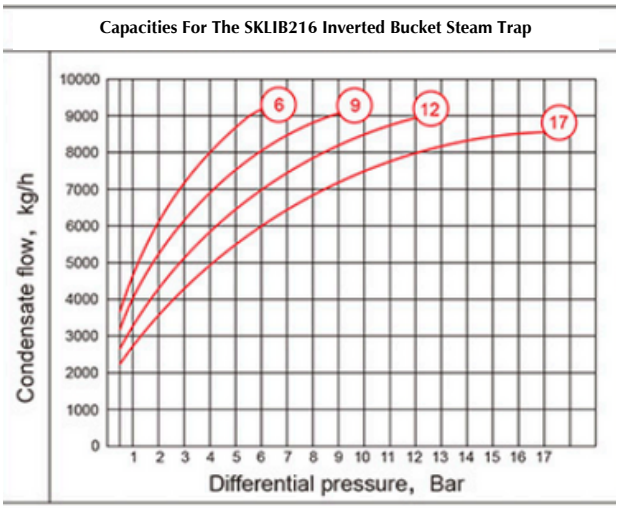
Capacities For The SKLIB214 Inverted Bucket Steam Trap



Capacities For The SKLIB215 Inverted Bucket Steam Trap



Capacities For The SKLIB216 Inverted Bucket Steam Trap



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