

STEAM TRAPS

WSIB/WSIBH

Inverted Bucket Steam Trap

Units: inches

Model	WSIB, WSIBH
Size	1/2", 3/4"
Connections	NPT, SW
Body Material	Stainless Steel
PMO Max. Operating Pressure	450 PSIG*
TMO Max. Operating Temperature	750°F
PMA Max. Allowable Pressure	720 PSIG @ 100°F
TMA Max. Allowable Temperature	750°F @ 400 PSIG

*750°F @ operating pressures below 400 PSIG. See installation note regarding using trap in superheated applications.

TYPICAL APPLICATIONS

DRIP, TRACER: The WSIB inverted bucket trap is primarily used in drip and tracer applications. Inverted bucket traps can handle superheated steam when a check valve is used. These traps are also used on unit heaters, laundry equipment, and other small process equipment where slow start-up due to poor air handling capability can be tolerated.

HOW IT WORKS

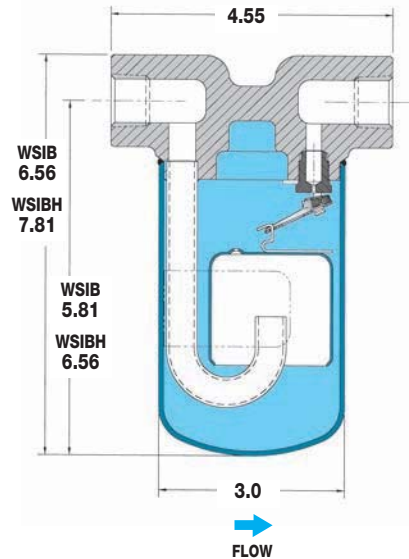
When there is condensate in the system, the inverted bucket inside the steam trap sits on the bottom of the trap due to its inherent weight. This allows condensate to enter the trap and to be discharged through the seat orifice located at the top. When steam enters the trap, the bucket floats to the surface and closes off the discharge valve containing the steam in the system. Eventually steam is bled off through a small hole in the top of the bucket causing the bucket to sink which repeats the cycle.

FEATURES

- All stainless steel body
- Acceptable for superheated steam (with check valve installed at inlet)
- Water hammer resistant
- Valve & seat are at the top of the trap making it less sensitive to dirt
- All stainless steel internals with hardened valve & seat



WSIB
Inverted Bucket
Steam Trap



SAMPLE SPECIFICATION

Steam trap shall be an all stainless steel module design inverted bucket type with a frictionless valve lever assembly.

INSTALLATION & MAINTENANCE

Trap must be installed in upright position to function properly. Steam trap is non-repairable. If a new trap is required, remove and replace. With superheated steam, a check valve must be installed at inlet of trap. For full maintenance details, see Installation and Maintenance Manual.

MATERIALS

Body	Stainless Steel GR CF3
Cover	304L Stainless Steel
Internals	300 Series Stainless Steel
Valve Plug & Seat	420F Stainless Steel

CAPACITIES – Condensate (lbs/hr)

Model	Orifice Size	PMO (PSIG)	Differential Pressure (PSI)																									
			5	10	15	20	25	30	40	50	60	70	80	100	125	150	180	200	250	350	450							
WSIB-20	3/16"	20	450	560	640	690																						
WSIB-80	1/8"	80	300	350	400	440	460	500	550	580	635	660	690															
WSIB-150	#38	150	210	250	280	300	320	350	380	400	420	450	470	500	550	570												
WSIB-450	.057	450	31	50	70	84	95	105	120	133	145	152	160	174	187	198	208	215	228	248	263							
WSIBH-15	1/4"	15	830	950	1060																							
WSIBH-30	3/16"	30	530	700	820	880	950	1000																				
WSIBH-70	5/32"	70	380	500	560	620	680	710	770	840	90	950																
WSIBH-125	1/8"	125	285	375	440	485	530	560	620	670	720	780	800	860	950													
WSIBH-200	7/64"	200	205	265	315	350	385	410	465	500	580	590	620	650	700	810	840	860										
WSIBH-250	#38	250	155	205	240	270	295	320	360	400	500	530	550	580	630	660	690	710	760									
WSIBH-450	.057	450	31	50	70	84	95	105	120	133	145	152	160	174	187	198	208	215	228	248	263							