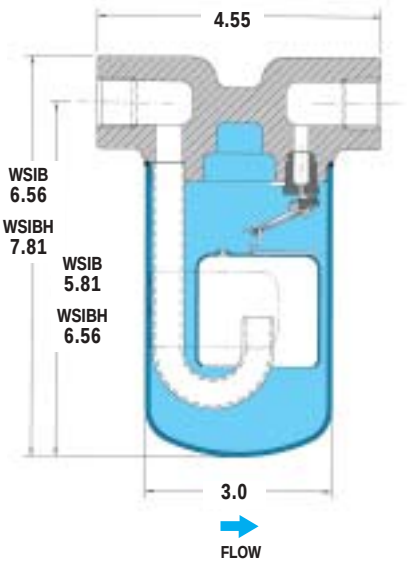
STEAM TRAPS
WSIB / WSIBH
Inverted Bucket Steam Trap

Revised 9/2004

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	750ºF
PMA Max. Allowable Pressure	720 PSIG @ 100ºF
TMA Max. Allowable Temperature	750ºF @ 400 PSIG

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

WSIB Inverted Bucket Steam Trap



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**
- **Handles 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**

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		500	560	620	680	710	770	840	90	950									
WSIBH-125	1/8"	125					530	550	620	670	720	780	800	860	950						
WSIBH-200	7/64"	200							500	550	580	590	620	650	700	810	840	860			
WSIBH-250	#38	250									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