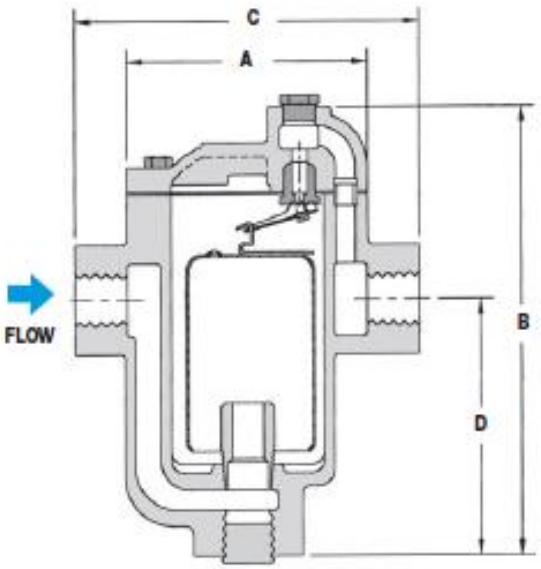
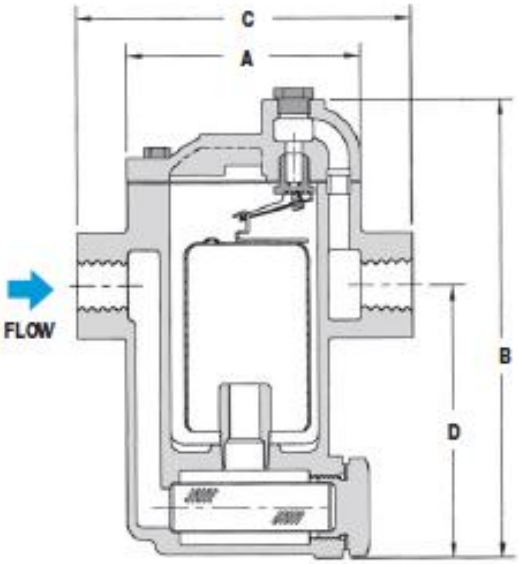


1031/1031S/1032/1033/1034
without Strainer (except 1031S)



1041/1042/1044/1038S
with Strainer

DIMENSIONS & WEIGHTS – inches

Model	A	B	C	D	Weight (lbs)
1031	3.8125	5.875	5.00	2.75	5
1031S*	3.8125	5.875	5.125	2.75	5
1032	3.8125	6.875	5.375	4.25	6
1033	5.625	9.06	6.625	5.375	15
1034	7.00	11.75	7.75	7.03	27
1041*	3.8125	6.06	5.00	3.43	5
1042*	3.8125	7.06	5.00	4.43	6
1044*	7.00	12.375	7.75	7.375	30
1038S*	7.03125	12.375	7.75	7.375	30

*** With Integral Strainer**

MATERIALS

Body & Cover	Cast Iron, ASTM A-278 Class 30
Nuts & Bolts	High-Tensile Steel
Gasket	Garlock
Bucket	Stainless Steel
Lever & Seat Assembly	Stainless Steel
Valve & Seat	Hardened Stainless Steel
Integral Strainer*	Stainless Steel

** 1031S, 1038S, 1041, 1042, 1044 models only.*

How to Order Options: (reference model code chart)

Check Valve (suffix **CV**)
Built-in Inlet Check Valve is recommended when used on Superheated Steam
Example: **IB1032-12-N-125-CV**

Thermic Vent (suffix **TV**)
A Thermic Vent is recommended when using a Bucket Trap on any type of process application or where the removal of air from the system is critical.
Example: **IB1032-12-N-125-TV**

Thermic Vent & Check Valve (suffix **TCV**)
For both Check Valve & Thermic Vent Options use Suffix Code
Example: **IB1032-12-N-125-TCV**

Blowdown Valve (add **B** to Model Code)
Blowdown connection is available on Models IB1038S, 1041, 1042 and 1044
Example: **IB1041B-13-N-150**
(Model IB1041, 3/4" NPT, 150 PSI max operating pressure with Blowdown & Strainer)

How to Size / Order

From the capacity chart, select the model that can handle the working pressure of the system (PMO). Select the appropriate trap that will meet the capacity requirements at the differential pressure. Example:

Application: 1000 lbs/hr at 75 PSIG working pressure and 2 PSI differential pressure

Note: Specify Model, PMO and Connection Size

Size/Model: **IB-1034, 80 PSIG**, Specify pipe size (3/4", 1"), or **IB-1044, 80 PSIG**, Specify pipe size (3/4", 1")

Cross Reference Chart

NO STRAINER		STRAINER	
Watson McDaniel	Armstrong	Watson McDaniel	Armstrong
1031	**800**	**1041**	**880**
1032	**811**	**1042**	**881**
1033	**812**	**1044**	**883**
1034	**813**		

Steam Traps
Inverted Bucket Steam Trap

IB Series
Inverted Bucket

NO STRAINER

Conn. NPT	Model Code	PMO PSI	Weight lbs	Cross Ref. Armstrong
1/2"	IB1031-12-N-20	20	7	800
3/4"	IB1031-13-N-20			
1/2"	IB1031-12-N-80	80	7	800
3/4"	IB1031-13-N-80			
1/2"	IB1031-12-N-125	125	7	800
3/4"	IB1031-13-N-125			
1/2"	IB1031-12-N-150	150	7	800
3/4"	IB1031-13-N-150			
1/2"	IB1032-12-N-15	15	8	811
3/4"	IB1032-13-N-15			
1"	IB1032-14-N-15			
1/2"	IB1032-12-N-30	30	8	811
3/4"	IB1032-13-N-30			
1"	IB1032-14-N-30			
1/2"	IB1032-12-N-70	70	8	811
3/4"	IB1032-13-N-70			
1"	IB1032-14-N-70			
1/2"	IB1032-12-N-125	125	8	811
3/4"	IB1032-13-N-125			
1"	IB1032-14-N-125			
1/2"	IB1032-12-N-200	200	8	811
3/4"	IB1032-13-N-200			
1"	IB1032-14-N-200			
1/2"	IB1032-12-N-250	250	8	811
3/4"	IB1032-13-N-250			
1"	IB1032-14-N-250			
1/2"	IB1033-12-N-15	15	17	812
3/4"	IB1033-13-N-15			
1/2"	IB1033-12-N-30	30	17	812
3/4"	IB1033-13-N-30			
1/2"	IB1033-12-N-70	70	17	812
3/4"	IB1033-13-N-70			
1/2"	IB1033-12-N-125	125	17	812
3/4"	IB1033-13-N-125			
1/2"	IB1033-12-N-200	200	17	812
3/4"	IB1033-13-N-200			
1/2"	IB1033-12-N-250	250	17	812
3/4"	IB1033-13-N-250			
3/4"	IB1034-13-N-15	15	30	813
1"	IB1034-14-N-15			
3/4"	IB1034-13-N-30	30	30	813
1"	IB1034-14-N-30			
3/4"	IB1034-13-N-60	60	30	813
1"	IB1034-14-N-60			
3/4"	IB1034-13-N-80	80	30	813
1"	IB1034-14-N-80			
3/4"	IB1034-13-N-125	125	30	813
1"	IB1034-14-N-125			
3/4"	IB1034-13-N-180	180	30	813
1"	IB1034-14-N-180			
3/4"	IB1034-13-N-250	250	30	813
1"	IB1034-14-N-250			


1031


1032


1033


1034

WITH STRAINER

Conn. NPT	Model Code	PMO PSI	Weight lbs	Cross Ref. Armstrong
1/2"	IB1041-12-N-20	20	7	880
3/4"	IB1041-13-N-20			
1/2"	IB1041-12-N-80	80	7	880
3/4"	IB1041-13-N-80			
1/2"	IB1041-12-N-125	125	7	880
3/4"	IB1041-13-N-125			
1/2"	IB1041-12-N-150	150	7	880
3/4"	IB1041-13-N-150			
1/2"	IB1042-12-N-15	15	8	881
3/4"	IB1042-13-N-15			
1/2"	IB1042-12-N-30	30	8	881
3/4"	IB1042-13-N-30			
1/2"	IB1042-12-N-70	70	8	881
3/4"	IB1042-13-N-70			
1/2"	IB1042-12-N-125	125	8	881
3/4"	IB1042-13-N-125			
1/2"	IB1042-12-N-200	200	8	881
3/4"	IB1042-13-N-200			
1/2"	IB1042-12-N-250	250	8	881
3/4"	IB1042-13-N-250			
3/4"	IB1044-13-N-15	15	37	883
1"	IB1044-14-N-15			
3/4"	IB1044-13-N-30	30	37	883
1"	IB1044-14-N-30			
3/4"	IB1044-13-N-60	60	37	883
1"	IB1044-14-N-60			
3/4"	IB1044-13-N-80	80	37	883
1"	IB1044-14-N-80			
3/4"	IB1044-13-N-125	125	37	883
1"	IB1044-14-N-125			
3/4"	IB1044-13-N-180	180	37	883
1"	IB1044-14-N-180			
3/4"	IB1044-13-N-250	250	37	883
1"	IB1044-14-N-250			
1 1/4"	IB1038S-15-N-15	15	37	883
1 1/2"	IB1038S-16-N-15			
1 1/4"	IB1038S-15-N-30	30	37	883
1 1/2"	IB1038S-16-N-30			
1 1/4"	IB1038S-15-N-60	60	37	883
1 1/2"	IB1038S-16-N-60			
1 1/4"	IB1038S-15-N-80	80	37	883
1 1/2"	IB1038S-16-N-80			
1 1/4"	IB1038S-15-N-125	125	37	883
1 1/2"	IB1038S-16-N-125			
1 1/4"	IB1038S-15-N-180	180	37	883
1 1/2"	IB1038S-16-N-180			
1 1/4"	IB1038S-15-N-250	250	37	883
1 1/2"	IB1038S-16-N-250			


1041


1042


1044 & 1038S

Helpful Selection Information

Select a model with a higher maximum operating pressure (PMO) that meet or exceed the maximum steam pressure or the trap may not open. For example, the **IB-1032-14-N-250** has a PMO of 250 PSI. Choose a model that will handle the capacity requirement based on the differential pressure across the trap. Reference capacity charts.

CAPACITIES – *Condensate (lbs/hr)*

Model	Pipe Size	Orifice Size	PMO (PSIG)	Differential Pressure (PSI) 1/4	1/2	1	2	5	10	15	20	30	50	60	70	80	100	125	150	180	200	250
1031 1041 1031S*	1/2", 3/4"	3/16"	20	139	200	270	340	450	560	640	690											
	1/2", 3/4"	1/8"	80	75	115	150	190	300	350	400	440	500	580	635	660	690						
	1/2", 3/4"	7/64"	125	50	80	100	145	240	280	320	350	410	490	520	560	580	640	680				
	1/2", 3/4"	#38	150	35	50	75	105	150	250	280	300	350	400	420	450	470	500	550	570			
1032	1/2", 3/4", 1"	1/4"	15	191	300	450	590	830	950	1060												
	1/2", 3/4", 1"	3/16"	30	150	235	325	410	530	700	820	880	1000										
	1/2", 3/4", 1"	5/32"	70	85	145	220	275	380	500	560	620	710	840	900	950							
	1/2", 3/4", 1"	1/8"	125	70	110	160	210	285	375	440	485	560	670	720	780	800	860	950				
	1/2", 3/4", 1"	7/64"	200	45	75	110	145	205	265	315	350	410	500	550	580	620	650	700	810	840	860	
	1/2", 3/4", 1"	#38	250	15	40	80	105	155	205	240	270	320	400	500	530	550	580	630	660	690	710	760
1042	1/2", 3/4"	1/4"	15	191	300	450	590	830	950	1060												
	1/2", 3/4"	3/16"	30	150	235	325	410	530	700	820	880	1000										
	1/2", 3/4"	5/32"	70	85	145	220	275	380	500	560	620	710	840	900	950							
	1/2", 3/4"	1/8"	125	70	110	160	210	285	375	440	485	560	670	720	780	800	860	950				
	1/2", 3/4"	7/64"	200	45	75	110	145	205	265	315	350	410	500	550	580	620	650	700	810	840	860	
	1/2", 3/4"	#38	250	15	40	80	105	155	205	240	270	320	400	500	530	550	580	630	660	690	710	760
1033	1/2", 3/4"	5/16"	15	350	570	850	1140	1600	1900	2100												
	1/2", 3/4"	1/4"	30	270	400	640	810	1000	1300	1600	1800	2050										
	1/2", 3/4"	3/16"	70	195	300	480	610	750	950	1200	1375	1600	1900	2000	2200							
	1/2", 3/4"	5/32"	125	130	205	320	415	595	775	910	900	1100	1380	1480	1600	1650	1800	2000				
	1/2", 3/4"	1/8"	200	75	120	200	255	365	490	585	630	700	900	980	1080	1120	1220	1400	1500	1560	1600	
	1/2", 3/4"	7/64"	250	30	80	130	170	250	335	400	470	525	665	600	700	800	900	1000	1100	1180	1220	1300
1034 1044	3/4", 1"	1/2"	15	950	1410	1880	2300	2900	3500	3900												
	3/4", 1"	3/8"	30	600	960	1300	1640	2200	2800	3300	3500	4000										
	3/4", 1"	5/16"	60	490	800	1090	1400	1750	2200	2600	2900	3500	4100	4400								
	3/4", 1"	9/32"	80	330	580	720	1070	1450	1800	2100	2400	2800	3300	3600	3800	4000						
	3/4", 1"	1/4"	125	260	430	620	810	1150	1650	1800	1900	2200	2600	2800	3000	3200	3600	3900				
	3/4", 1"	7/32"	180	200	310	470	610	880	1170	1380	1510	1800	2100	2300	2500	2700	2900	3200	3500	3700		
	3/4", 1"	3/16"	250	170	250	380	490	700	940	1100	1250	1450	1700	1800	2000	2100	2300	2700	2800	3100	3200	3500
1038S	1¼", 1½"	1/2"	15	1188	1763	2350	2875	3625	4375	4875												
	1¼", 1½"	3/8"	30	760	1190	1625	2050	2750	3500	4125	4375	5125										
	1¼", 1½"	5/16"	60	615	1000	1375	1750	2188	2750	3250	3625	4375	5125	5500								
	1¼", 1½"	9/32"	80	420	720	900	1340	1810	2250	2625	3000	3500	4125	4500	4750	5000						
	1¼", 1½"	1/4"	125	330	540	775	1010	1440	2063	2250	2375	2750	3250	3500	3750	4000	4500	4875				
	1¼", 1½"	7/32"	180	250	390	590	760	1100	1470	1725	1890	2063	2375	2875	3125	3375	3625	4000	4375	4625		
	1¼", 1½"	3/16"	250	210	320	470	610	875	1170	1380	1560	1800	2125	2250	2500	2625	2875	3375	3500	3875	4000	4375

** 1031S only available @ PMO = 125 PSIG.*