



Cast Iron Inverted Bucket Steam Trap B Series Capacities Chart

Capacities lb/hr for Kg/Hr, multiply Lb/Hr by .454

Trap Size →			½" - ¾"	¾"	1"	1¼"	2"
Differential Pressure Range ↓							
1 – 15 psi (0.07 - 1 bar)	Model No. →		B1H-15	B2-15	B3-15	B4-15	B5-15
	Orifice		¼"	⅜"	½"	⅝"	1¼"
	1 psi	0.07 bar	665	1700	2140	3940	11,600
	2 psi	0.14 bar	715	1920	2330	4090	12,100
	3 psi	0.21 bar	755	2110	2600	4350	13,200
	5 psi	0.34 bar	835	2370	2920	4980	14,700
	10 psi	0.69 bar	960	2810	3590	5990	17,800
	15 psi	1 bar	1040	3220	3900	6560	20,000
5 – 30 psi (0.34 - 2 bar)	Model No. →		B1H-30	B2-30	B3-30	B4-30	B5-30
	Orifice		⅜"	½"	⅝"	¾"	1"
	5 psi	0.34 bar	615	1920	2340	4150	10,000
	10 psi	0.69 bar	715	2260	2840	4930	12,100
	15 psi	1 bar	810	2580	3230	5680	14,000
	20 psi	1.4 bar	895	2870	3630	6200	15,600
	25 psi	1.7 bar	945	3060	3900	6720	17,100
	30 psi	2 bar	1000	3220	4120	7140	18,500
10 – 75 psi (0.69 - 5 bar)	Model No. →		B1H-75	B2-75	B3-75	B4-75	B5-75
	Orifice		⅝"	¾"	1"	1¼"	1½"
	10 psi	0.69 bar	500	1250	1970	3840	9,860
	20 psi	1.4 bar	610	1600	2500	4720	12,400
	30 psi	2 bar	705	1850	2860	5470	13,900
	40 psi	2.8 bar	770	2000	3120	6080	15,200
	60 psi	4.1 bar	905	2350	3640	7150	17,900
	75 psi	5 bar	965	2550	3960	7570	19,200

Continued on next page

Capacities lb/hr for Kg/Hr, multiply Lb/Hr by .454

Trap Size →			1/2" - 3/4"	3/4"	1"	1 1/4"	2"
Differential Pressure Range ↓							
20 – 125 psi (1.4 - 9 bar)	Model No. →		B1H-125	B2-125	B3-125	B4-125	B5-125
	Orifice		1/8"	3/64"	1/4"	11/32"	1/2"
	20 psi	1.4 bar	446	1100	2080	4450	10,800
	40 psi	2.8 bar	600	1220	2600	5530	12,500
	60 psi	4.1 bar	695	1700	3020	6350	15,600
	80 psi	5.5 bar	765	1900	3380	7110	17,100
	100 psi	6.9 bar	830	2080	3640	7750	18,900
	125 psi	9 bar	920	2240	4100	8540	20,000
60 – 180 psi (4.1 - 12.4 bar)	Model No. →		B1H-180	B2-180	B3-180	B4-180	B5-180
	Orifice		3/32"	5/32"	7/32"	9/32"	7/16"
	60 psi	4.1 bar	585	1500	2580	4250	13,650
	80 psi	5.5 bar	642	1700	2830	4730	15,100
	100 psi	6.9 bar	703	1800	3070	5080	16,600
	125 psi	9 bar	765	1940	3380	5680	18,400
	150 psi	10 bar	816	2100	3580	5980	19,100
	180 psi	12.4 bar	867	2220	3780	6300	20,500
125 – 250 psi (9 - 17 bar)	Model No. →		B1H-250	B2-250	B3-250	B4-250	B5-250
	Orifice		.070"	9/64"	3/16"	1/4"	3/8"
	125 psi	9 bar	562	1825	2760	4730	15,000
	150 psi	10 bar	600	1940	2910	4980	16,100
	175 psi	12 bar	630	2060	3120	5130	16,800
	200 psi	13.8 bar	665	2120	3380	5500	17,800
	225 psi	15.5 bar	695	2240	3460	5780	18,900
	250 psi	17 bar	720	2300	3630	6040	19,400

How to select

The table overleaf and above show the maximum capacities on continuous discharge of condensate approximately at steam temperature. Cold water discharge capacities are much higher.

When calculating the capacity requirement for the steam trap, use a safety factor of 2 or 3 times the normal load, depending on the application. Then from the capacity table overleaf, select the trap with the required capacity and pressure range.

Caution: Oversizing bucket traps, especially on light load applications such as main drips, can cause the trap to lose its seal and pass steam.

Be careful to select the inverted bucket trap with a seat suitable for the maximum pressure differential and with sufficient capacity to handle the load at the minimum expected pressure differential. The trap will not open if subjected to pressures greater than the maximum differential pressure.

The capacity table also applies to traps with optional air vents (B12H, B22, etc.)