

Armstrong Machine Works

851 Maple Street

Three Rivers, Mich.

District Sales Offices in 42 Cities

Exclusive Manufacturers of Armstrong Steam Traps

PRODUCTS:

Inverted bucket steam traps.

Advantages: The Armstrong Inverted Bucket Trap has all of the features necessary to highly satisfactory trapping performance.

—no airbinding. Armstrongs cannot airbind. Air and undissolved gases rise to the top of the trap and are discharged with the condensate. This advantage is of the highest importance in the drainage of unit heaters, headers, dryers, etc.

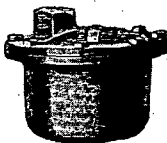
—small size. While small enough to be supported by connecting pipes, Armstrongs have greater capacity than many traps of larger size. This is especially important with unit heaters, which are often suspended in midair. (See next page for table of sizes and capacities).

—no clogging. The Armstrong will handle without difficulty scum and sludge that comes over from the boiler. The upward-swirling motion of the condensate makes this trap self-scrubbing.

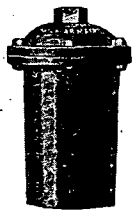
—no leaking or wire-drawing. The trap is always water-sealed against steam leakage. Heat treated chrome steel valves (an exclusive Armstrong development) prevent valve wear due to wire-drawing.

—attentionless operation. Positive operation and the features mentioned above make the Armstrong trap practically attentionless and foolproof in operation. It is nothing unusual for them to operate efficiently for years without attention.

Armstrong traps are extensively used for low and high pressure service. Cast iron bodies are used for the low pressures and forged steel bodies for the high pressures. Where especially quick heating is desired, thermic strips may be used. For service



No. 30 Trap for draining small units



No. 2 Trap for General Service

under pulsating pressures, as with reciprocating engines and pumps, Armstrong Special traps are recommended. Armstrongs may also be used for vacuum service without special attachments.

We furnish Armstrong separating traps for any service. We welcome a trial of an Armstrong under any conditions and inquiries on traps for unusual conditions.

Application: The installation of Armstrong traps is comparatively simple. Unlike most traps, the inlet is at the bottom, the outlet at the top. They should be set in a vertical position, and the more conveniently located the better. They may be installed above the radiation if there is sufficient pressure to raise the water up and through the trap or one pound for every two feet of elevation.

Armstrongs are non-return or separating traps and cannot be used to return condensate to the boiler, though they may be used to advantage in connection with return traps.

Users: There are probably more Armstrongs in service than any other mechanically operated trap. A list of users includes many nationally known concerns, a large percentage of whom have adopted the Armstrong as standard equipment. Some have over a thousand in use. Durability as well as its greater reliability and efficiency are responsible for its extensive use. Continuous service without repairs for from four to ten years is common.



No. 30 Armstrong Trap keeping Unit Heater free of condensate and air

General Service Cast Iron Traps

PRESSURES TO 300 LBS.

TRAP SIZE	No. 30	No. 31	No. 2	No. 25	No. 3	No. 4
Pipe Connections.....	1/2"	1/2"	1/2 or 3/4"	1"	1 or 1 1/4"	1 1/2 or 2"
List prices.....	\$9.25	\$15.00	\$20.75	\$29.00	\$38.00	\$55.00
Telegraph Code.....	Oak	Red	Ash	Hickory	Fir	Elm
Height of trap.....	4 1/4"	6 1/4"	10"	12 1/2"	14"	16 3/4"
Diameter.....	5 1/8"	5 3/8"	6 1/4"	7 1/2"	8 1/2"	10"
Weight.....	5 1/2 lbs.	7 1/2 lbs.	18 lbs.	33 lbs.	45 lbs.	74 lbs.
Maximum pressure.....	125 lbs.	150 lbs.	300 lbs.	300 lbs.	300 lbs.	300 lbs.
Capacity in pounds of water per hour at these pressures.....						
(These capacities and pressures also apply to the corresponding special traps listed below).						
5	799	1043	1692	4172	6770	21097
10	1121	1465	2289	5862	9159	29638
15	979	1763	2753	7054	11013	28216
20	817	1541	3268	8056	13072	24654
30	768	1348	3074	7428	12297	21572
60	459	1337	2534	4181	7352	20672
100	257	571	1605	3153	5257	16455
125	282	625	1817	2507	4514	14200
150	...	471	1210	1959	4840	10755
160	...	...	1245	2020	3811	11062
240	...	...	811	1865	3285	7474
300	...	...	614	1593	2579	6371
SPECIAL TRAPS						
	No. 30S	No. 31S	No. 2S		No. 3S	No. 4S
Pipe Connections.....	1/2"	1/2"	1/2 or 3/4"		1 or 1 1/4"	1 1/2 or 2"
List prices.....	\$14.25	\$20.00	\$27.75		\$45.00	\$75.00
Telegraph Code.....	Beech	Cedar	Pine		Gum	Box
Height of trap.....	7 1/2"	9 3/4"	13 1/2"		18 1/2"	22 1/2"
Diameter.....	5 1/4"	5 1/4"	6 3/8"		8 1/2"	10"
Weight.....	11 lbs.	13 1/2 lbs.	32 lbs.		67 lbs.	114 lbs.
Maximum pressure.....	125 lbs.	150 lbs.	300 lbs.		300 lbs.	300 lbs.

The special traps listed above are for use where there is a pulsation of pressure due to reciprocating engines or pumps drawing steam from a line. They have the same capacities and pipe connections as their equivalent standard traps.

The capacity figures given above are continuous discharge figures at the differential indicated. The actual pressure at the trap inlet and back pressure in the return line should be used to obtain the pressure differential.