

Armstrong Machine Works

851 Maple Street

Three Rivers, Mich.

Exclusive Manufacturers of Armstrong Inverted-Bucket Steam Traps

ARMSTRONG



REPRESENTATIVES

Atlanta, Ga., J. M. Tull Metal & Supply Co., Inc., 285 Marietta St., N.W.
 Baltimore, Md., Milby & McKinney, 118 Light St.
 Birmingham, Ala., Southeastern Products Co., 1401 Lomb Ave.
 Boston, Mass., Files Steam Specialty Co., 261 Franklin St.
 Buffalo, N. Y., Herr Steam Specialty Co., 360 Warwick Ave.
 Charleston, W. Va., Baldwin Supply Co., 518 Capitol St.
 Chicago, Ill., Barrett-Christie Co., 108-112 N. Clinton St.
 Dallas, Texas, Geo. B. Allan & Co., North Texas Bldg.
 Denver, Colo., Hendrie-Bolthoff Mfg. & Supply Co., 1637-17th St.
 Des Moines, Iowa, E. B. Carr, 910 Walnut St.
 Detroit, Mich., A. F. Squier, 2910 National Ave.
 Duluth, Minn., John E. Smith, 1720 W. Superior St.
 Erie, Pa., Coblenz Equipment Co., 1119 Peach St.
 Evansville, Ind., Evansville Supply Co., Escobido Bldg.
 Fond du Lac, Wis., A. N. Goff, 94 Eighth St.
 Honolulu, T. H., The von Hamm-Young Co., Ltd.
 Indianapolis, Ind., Indianapolis Belting & Supply Co., 34 S. Capitol Ave.
 Kansas City, Mo., Hughes Machinery Co., 342 Mfrs. Exchange Bldg.
 Knoxville, Tenn., Leinart Engineering Co., 427 Walnut St.
 Los Angeles, Calif., Guy L. Warden, 114 West 17th St.
 Louisville, Ky., Graft-Pelle Co., 309 W. Main St.
 Memphis, Tenn., The Power Equipment Co., 1352 Madison Ave.

Milwaukee, Wis., Hamacher & Williams, 2340 W. Wells St.
 Minneapolis, Minn., Albert C. Price Co., 257 Fourth Ave.
 Montreal, Quebec, Preston, Phipps Inc., 955 St. James St. W.
 New Orleans, La., Louisiana Steam Equipment Co., 109 Tchoupitoulas St.
 New York, N. Y., Advance Engineering Co., 69 Dey St.
 Philadelphia, Pa., Brogan & Co., 810 Race St.
 Phoenix, Ariz., John W. Ladlow, Box 1784.
 Pittsburgh, Pa., R. S. Eastman Co., 222 First Ave.
 Portland, Ore., Heating and Ventilating Equipment Co., 927 S. W. Oak St.
 Richmond, Va., A. T. Shepherd, 411-12 Tenth St. Bldg.
 St. Louis, Mo., O'Brien Equipment Co., 2726 Locust Blvd.
 Salt Lake City, Utah, Lee, Pace & Turpin, 144 S. Fifth West St.
 San Francisco, Calif., Refrigerating & Power Specialties Co., 380 Brannon St.
 Seattle, Wash., Heating & Ventilating Equipment, Inc., 500 First Ave., South.
 South Bend, Ind., Smith-Monroe Co., 1912 S. Main St.
 Syracuse, N. Y., The Hopton Co., 321 Denison Bldg.
 Tampa, Fla., G. W. Neale, 504 E. LaFayette St.
 Toronto, Ont., Arthur S. Leitch Co., Ltd., 1123 Bay St.
 Vancouver, B. C., General Equipment, Ltd., 319 W. Pender St.
 Winnipeg, Man., Kipp-Kelly, Ltd., 68 Higgins Ave.
 Wooster, Ohio, Steam Economies Co., 1011 Beall Ave.

Armstrong traps are offered in two types for heating service, "standard" traps and "blast" traps. Standard traps are used for dripping headers and unit heaters where little air is to be handled. Where large volumes of air must be removed quickly, the blast trap is available.

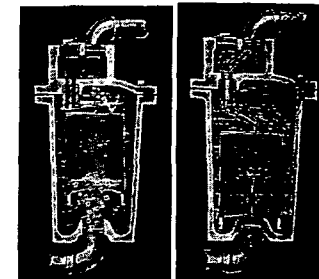
The "Blast" Type Trap—The standard Armstrong trap can easily be furnished as a "blast" type trap by the use of a thermic bucket. The air handling capacity of this bucket is approximately 100 times as great as with the regular air vent.

Simplicity—The Armstrong Steam Trap has only two moving parts—the valve lever assembly and the inverted bucket. Friction is practically eliminated in this mechanism. All wearing parts are

made from nickel chrome steel except the discharge valve and seat which are made from a special chrome steel heat treated after machining to obtain maximum hardness and toughness.

Avoid Steam Trap Troubles—The intermittent action of this trap and the metal used in the valves stop scoring and wire-drawing, the common sources of leakage. Air-binding is impossible because the air passes out of the bucket through the vent at the top. When the trap is discharging, the flow of water under the bottom of the bucket prevents the accumulation of dirt or sediment.

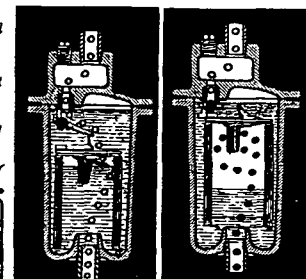
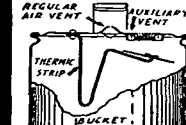
Large Capacity—Discharge orifices used in Armstrong traps are very large in

HOW THE ARMSTRONG STEAM TRAP WORKS
The Standard Trap

LEFT:
Standard trap (1) closed and (2) discharging.

BELOW:
Thermic bucket in blast trap.

RIGHT:
Blast trap (1) discharging air, (2) closed by steam.

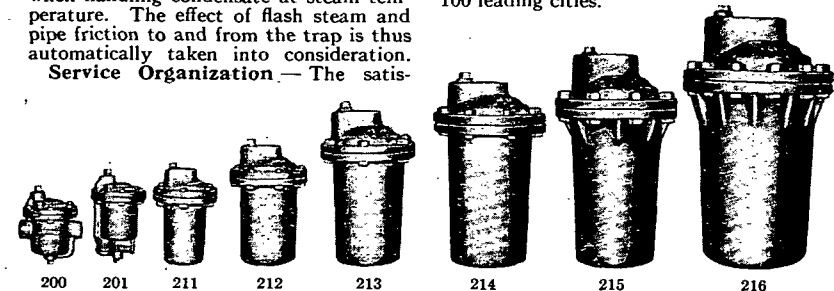


proportion to the size of the pipe connections.

Armstrong trap capacity ratings are not theoretical but show actual test capacities when handling condensate at steam temperature. The effect of flash steam and pipe friction to and from the trap is thus automatically taken into consideration.

Service Organization—The satis-

factory operation of all Armstrong traps is assured by 43 district representatives in the United States, Canada and Hawaii. Stocks of these traps are carried in nearly 100 leading cities.



Sizes, Capacities and List Prices of Armstrong Traps

Trap Size		No. 200 and 201	No. 211	No. 212	No. 213	No. 214	No. 215	No. 216
Pipe Connections		1/2"	1/2"	1/2" or 3/4"	1/2" or 3/4"	1"	1" or 1 1/4"	1 1/2" or 2"
List Price (Regular)		\$7.00	\$9.25	\$15.00	\$20.75	\$29.00	\$38.00	\$55.00
List Price (Blast Trap)		\$8.50	\$10.75	\$17.00	\$22.75	\$31.50	\$40.50	\$60.00
Telegraph Code (Regular)		Acacia Acanthus Acacette	Aspen	Birch	Walnut	Hemlock	Larch	Tamarack
Telegraph Code (Blast Trap)		Acacette	Aspette	Birette	Walette	Hemlette	Larette	Tamrette
Height		4 1/4"	6 1/4"	8"	10 1/4"	12 1/4"	14"	16 1/4"
Diameter		4 1/4"	5"	5"	6 1/4"	7 1/4"	8 1/4"	10 1/4"
Weight		4 Lb	5 1/2 Lb	10 1/2 Lb	19 Lb	32 Lb	47 Lb	76 Lb
Maximum Pressure		125	200	200	250	250	250	250
Continuous discharge capacity in lb of water per hour at pressure indicated. For more complete information, see the Capacity Chart in the Arm- strong Steam Trap Book.	Lb. pressure	5	450	840	1560	3000	4600	7600
		10	560	1000	1900	3500	5600	9100
		15	640	1080	2060	3900	6300	10,000
		20	690	890	1800	3100	5900	8500
		25	460	940	1940	3390	6300	9200
		30	500	970	2050	3600	6600	9800
		40	550	780	1700	3450	5700	8400
		50	600	840	1840	3750	6200	8900
		60	635	900	1950	4050	6600	9300
		70	660	940	2030	3700	6100	9200
		80	690	800	1650	3920	6400	9700
		90	640	840	1750	3220	6100	10,100
	100	650	880	1840	3400	6300	10,400	
	125	660	960	2040	3880	6700	10,900	
	150	660	960	2040	3500	5900	9500	
	200	...	820	1530	3200	5400	9500	
	250	...	900	1680	3500	5700	10,200	
	250	...	...	...	...	...	19,000	

*If 1/4 in. connections are desired, order No. 202 for straight way or No. 203 for angle.