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, 116 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, 307 Securities Bldg.

Detroit, Mich., A. F. Squier, 2910 National Ave.

Duluth, Minn., John E. Smith, 1720 W. Superior St.

Erie, Pa., Coblentz Equipment Co., 1119 Peach St.

Evansville, Ind., Evansville Supply Co., Esco 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., 311 W. Cumberland Ave.

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, 2540 W. Wells St.

Minneapolis, Minn., Albert C. Price Co., 257 Fourth Ave., South.

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 Specialities 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, 404 Morgan 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 offers two types of traps for heating, air conditioning, and steam distribution service.

Standard Inverted Bucket Traps, the type originated by Armstrong, are *non-airbinding* and *self-scrubbing*. They are used for low, medium, and high pressure duty where relatively little air must be handled along with the condensate. Their free-floating lever design makes it possible to open very large discharge orifices compared with the size and weight of the trap itself.

Armstrong Blast Traps are used where large amounts of air must be vented quickly when steam is first turned on. The Armstrong Blast Trap (illustrated on next page) consists of a standard inverted bucket trap with a large auxiliary air vent controlled by a piece of rustless thermostatic bi-metal. When the trap is cold, the auxiliary vent is wide open, allowing air and condensate to blow right through the trap. When steam reaches the trap, the auxiliary vent closes, allowing the bucket to float and close the main valve after the condensate has been discharged.

The Armstrong Blast Trap has several advantages over the conventional float and thermostatic trap.

1. The Armstrong Blast Trap has but a *single orifice* to be maintained tight against the full pressure differential. The pressure differential across the auxiliary air vent amounts to only 1 in. to 4 in. of water.

2. *Positive action.* The discharge valve in an Armstrong Blast Trap is either wide

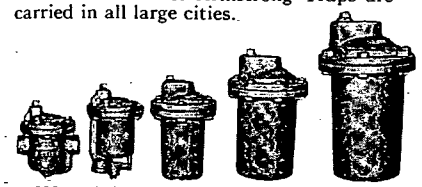
open or tight shut. Fast opening and fast closing prevent wire-drawing.

3. *Handles dirt.* There are no dead spots in an Armstrong Trap in which dirt can settle and interfere with the operation of the trap. No blow-down valves are necessary and ordinarily no strainers are required ahead of Armstrong Traps.

4. The wearing parts in all Armstrong Traps are identical in design, material, and precision workmanship with parts used in Armstrong Forged Steel Traps for pressures up to 1500 lb gage and total temperatures of 850 F. At ordinary heating pressures, Armstrong Traps last many years without any maintenance expense whatever.

Armstrong Steam Trap Book. This 32 page book gives complete information on all sizes and types of Armstrong Traps. It also contains 15 pages of data on the subject of trap selection, installation, and maintenance. A free copy will be mailed no request.

Service Organization. Satisfactory selection and operation of all Armstrong Traps is assured by 43 district representatives in the United States, Canada, and Hawaii. Stocks of Armstrong Traps are carried in all large cities.



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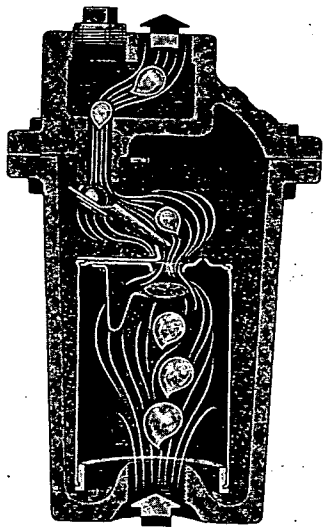

THE ARMSTRONG BLAST TRAP

The above picture shows how the Armstrong Blast Trap works when steam is first turned on. Note that the auxiliary vent in the top of the bucket is wide open. Air and water are free to rush straight through until steam comes in and causes the bi-metal strip to bend upward closing the auxiliary vent with the small flat disc. Thereafter it works the same as the standard trap.

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		½"*	½"	½" or ¾"	½" or ¾"	1"	1" or 1¼"	1½" 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)		Acanette	Aspette	Birette	Walette	Hemlette	Larette	Tamrette
Height		4 1/16"	6 3/16"	8"	10¼"	12½"	14"	16 3/4"
Diameter		4¼"	4 1/8"	5"	6⅜"	7½"	8½"	10 5/16"
Weight		4 Lb	5½ Lb	10½ 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 Armstrong Steam Trap Book.	5 Lb. pressure	450	840	1560	3000	4600	7600	14,300
	10	560	1000	1900	3500	5600	9100	17,200
	15	640	1080	2060	3900	6300	10,000	19,000
	20	690	890	1800	3100	5900	8500	18,200
	30	500	970	2050	3600	6600	9800	17,600
	50	600	840	1840	3750	6200	8900	18,200
	70	660	940	2030	3700	6100	9200	18,500
	100	650	880	1840	3400	6300	10,400	18,500
	125	660	960	2040	3880	6700	10,900	20,400
	150	...	820	1530	3500	5900	9500	18,600
	200	...	900	1680	3200	5400	9500	17,400
	250	...	...	...	3500	5700	10,200	19,000

*If ¾ in. connections are desired, order No. 202 for straight way or No. 203 for angle.