



# Armstrong Machine Works

851 Maple Street Three Rivers, Mich.

Representatives  
in All  
Principal  
Cities

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 service 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 of the trap itself.

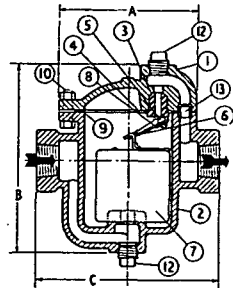
**Armstrong Blast Traps** are used where large amounts of air must be vented quickly

when steam is first turned on. They have several advantages over the conventional float and thermostatic trap.

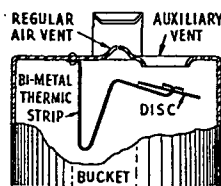
1. The Armstrong Blast Trap has but a *single orifice* to be maintained tight against the full pressure differential.

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.

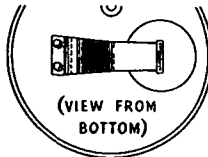
3. *Handles dirt*. There are no dead spots in an Armstrong Trap in which dirt can settle and interfere with the operation of the trap.



Cross-section of No. 800 trap for straight-through pipe connections. Part No. 13 is a new steel thimble in the discharge passage which insures positive positioning of gasket between cap and body.



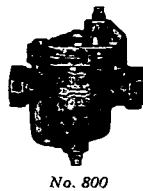
FOR  
BLAST  
TRAP  
JOBS



ALL Armstrong traps are readily convertible into "Blast" type traps merely by using buckets equipped with the patented auxiliary thermic air vent. As shown in the above sketches, the mechanism for this vent consists of a stainless steel disc slotted to receive the end of a bi-metal strip. Different coefficients of expansion in the bi-metal cause it to bend down when cold and up when hot. Normally, it is set to close at 212 deg, but it can be set to close at higher temperatures. Capacity, 50 to 100 times the air-venting capacity of a standard trap.

## Traps No. 800-801

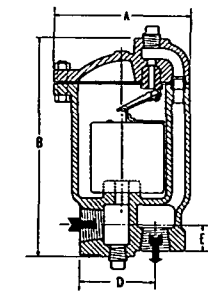
| Trap Size                                                                                                                                                       | No. 800      | No. 801      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Pipe Connections.....                                                                                                                                           | 1/2" or 3/4" | 1/2" or 3/4" |
| List Price (Regular).....                                                                                                                                       | \$7.00       | \$7.00       |
| List Price (Blast Trap).....                                                                                                                                    | \$8.50       | \$8.50       |
| Telegraph Code (Regular).....                                                                                                                                   | Aloe         | Arrow        |
| Telegraph Code (Blast Trap).....                                                                                                                                | Albette      | Arrowette    |
| Dimension A.....                                                                                                                                                | 3 3/4"       | 3 3/4"       |
| Dimension B.....                                                                                                                                                | 5 1/2"       | 6"           |
| Dimension C.....                                                                                                                                                | 5 1/2"       | 6"           |
| Dimension D.....                                                                                                                                                | 2 1/4"       | 2 1/4"       |
| Dimension E.....                                                                                                                                                | 1 1/4"       | 1 1/4"       |
| Number of Bolts.....                                                                                                                                            | 6            | 6            |
| Diameter of Bolts.....                                                                                                                                          | 1/4"         | 1/4"         |
| Weight.....                                                                                                                                                     | 4 1/2 lbs.   | 4 1/2 lbs.   |
| Maximum Pressure, lb.....                                                                                                                                       | 125          | 125          |
| Continuous discharge capacity in lb of water per hour at pressure indicated. For more complete information see the Capacity Chart in Armstrong Steam Trap Book. |              |              |
| Lb Pressure                                                                                                                                                     |              |              |
| 5                                                                                                                                                               | 450          | 450          |
| 10                                                                                                                                                              | 560          | 560          |
| 15                                                                                                                                                              | 640          | 640          |
| 20                                                                                                                                                              | 690          | 690          |
| 30                                                                                                                                                              | 800          | 800          |
| 50                                                                                                                                                              | 580          | 580          |
| 70                                                                                                                                                              | 660          | 660          |
| 100                                                                                                                                                             | 640          | 640          |
| 125                                                                                                                                                             | 680          | 680          |



No. 800



No. 801



Cross-section of No. 801 trap for standard angle pipe connections.

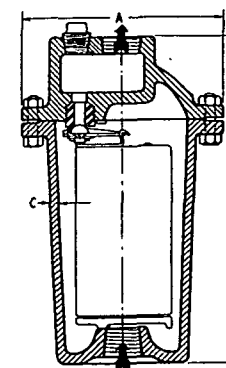
## MATERIALS USED IN ARMSTRONG TRAPS

| Part No. | Name                                                      | Material                                    |
|----------|-----------------------------------------------------------|---------------------------------------------|
| 1 & 2    | Cap and Body.....                                         | Cast Semi-Steel, 33,000 lb tensile strength |
| 3        | *Seat.....                                                | Chrome Steel                                |
| 4        | Guide Plate Pins.....                                     | Stainless Steel 18-8                        |
| 5        | *Valve.....                                               | Chrome Steel                                |
| 6        | Lever.....                                                | Stainless Steel 18-8                        |
| 7        | Bucket (drawn in one piece for No. 800, 801, 211 and 212) | Stainless Steel                             |
| 8        | Retainer.....                                             | Stainless Steel 18-8                        |
| 9        | Gasket.....                                               | Compressed Asbestos 1/4"                    |
| 10       | Bolts and Nuts.....                                       | Steel 90,000 lb minimum tensile             |
| 11       | Thermic Vent.....                                         | Stainless Bi-metal and Stainless Steel      |
| 12       | Test Plug.....                                            | Steel                                       |

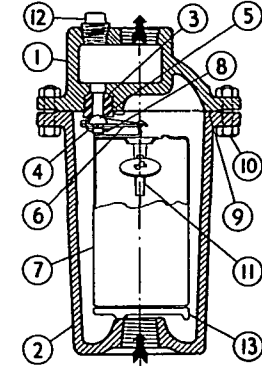
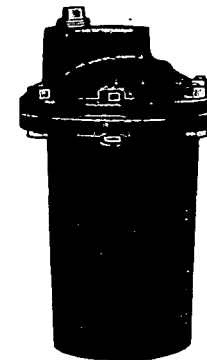
\*Valve and Seat are heat treated after machining.

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.

**Armstrong Steam Trap Book.** This 36 page book gives complete information on all sizes and types of Armstrong Traps. It also contains 17 pages of data on the subject of trap selection, installation, and maintenance. A free copy will be mailed on request.



No. 211-216, Standard Type



No. 211-216, Blast Type

## Traps No. 211-216

| Trap Size                                                                                                                                                            | No. 211  | No. 212      | No. 213      | No. 214  | No. 215      | No. 216      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------|--------------|----------|--------------|--------------|
| Pipe Connections.....                                                                                                                                                | 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).....                                                                                                                                            | \$ 9.25  | \$15.00      | \$20.75      | \$29.00  | \$38.00      | \$55.00      |
| List Price (Blast Trap).....                                                                                                                                         | \$10.75  | \$17.00      | \$22.75      | \$31.50  | \$40.50      | \$60.00      |
| Telegraph Code (Regular).....                                                                                                                                        | Aspen    | Birch        | Walnut       | Hemlock  | Larch        | Tamarack     |
| Telegraph Code (Blast Trap).....                                                                                                                                     | Aspette  | Birette      | Walette      | Hemlette | Larette      | Tamrette     |
| Height.....                                                                                                                                                          | 6 3/4"   | 8"           | 10 1/2"      | 12 1/2"  | 14"          | 16 1/2"      |
| Dimension B.....                                                                                                                                                     | 4 1/4"   | 5"           | 6 1/4"       | 7 1/4"   | 8 1/4"       | 10 1/4"      |
| Diameter.....                                                                                                                                                        | 3/4"     | 1"           | 1 1/4"       | 1 1/2"   | 1 3/4"       | 2"           |
| Wall Thickness.....                                                                                                                                                  | 1/4"     | 1/4"         | 1/4"         | 1/4"     | 1/4"         | 1/4"         |
| Diameter of Bolts.....                                                                                                                                               | 1/4"     | 1/4"         | 1/4"         | 1/4"     | 1/4"         | 1/4"         |
| Number of Bolts.....                                                                                                                                                 | 6        | 8            | 8            | 8        | 8            | 12           |
| Weight.....                                                                                                                                                          | 5 1/2 lb | 10 1/2 lb    | 19 lb        | 32 lb    | 47 lb        | 80 lb        |
| Maximum Pressure.....                                                                                                                                                | 250      | 250          | 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. |          |              |              |          |              |              |
| Lb Pressure                                                                                                                                                          |          |              |              |          |              |              |
| 5                                                                                                                                                                    | 630      | 1600         | 2900         | 4800     | 7600         | 14500        |
| 10                                                                                                                                                                   | 950      | 1900         | 3500         | 5800     | 9000         | 17300        |
| 15                                                                                                                                                                   | 1060     | 2100         | 3900         | 6500     | 10000        | 19200        |
| 20                                                                                                                                                                   | 880      | 1800         | 3500         | 6000     | 8500         | 18500        |
| 30                                                                                                                                                                   | 1000     | 2050         | 4000         | 6800     | 9800         | 18000        |
| 50                                                                                                                                                                   | 840      | 1900         | 4100         | 6300     | 9000         | 18200        |
| 70                                                                                                                                                                   | 950      | 2200         | 3800         | 6000     | 9200         | 18300        |
| 100                                                                                                                                                                  | 860      | 1800         | 3600         | 6200     | 10400        | 18000        |
| 125                                                                                                                                                                  | 950      | 2000         | 3900         | 6700     | 10900        | 20000        |
| 150                                                                                                                                                                  | 810      | 1500         | 3500         | 5700     | 9500         | 18500        |
| 200                                                                                                                                                                  | 860      | 1600         | 3200         | 5300     | 9200         | 17500        |
| 250                                                                                                                                                                  | 900      | 1680         | 3500         | 5700     | 7000         | 19000        |