



## MAX-FLO

### SUPER HIGH CAPACITY FLOAT & THERMOSTATIC STEAM TRAPS

Pressures to 175 PSIG (12.1 barg)  
Temperatures to 377°F (192°C)

- High Capacities
- Rugged cast iron body and cover
- Stainless steel thermostatic element eliminates air binding
- Stainless steel float and lever mechanism
- Below condensate level seat design prevents steam leakage
- Resistant to water hammer and corrosion
- In-Line repairable

#### APPLICATIONS

- Very High Condensate Loads
- Continuous Drainage With High Air Venting Capacity Requirements
- Industrial And Commercial Applications
- Absorption Systems
- Air Handling Coils
- Heat Exchangers
- Dryers Evaporators
- Hot water Generators
- Rendering Machines
- Steam Process Equipment
- Air Make-up Coils
- Unit Heaters And Cooking Kettles

#### MODELS

- HC-15 - Steam pressures to 15 PSIG
- HC-30 - Steam pressures to 30 PSIG
- HC-75 - Steam pressures to 75 PSIG
- HC-125 - Steam pressures to 125 PSIG
- HC-175 - Steam pressures to 175 PSIG

*Installation Tip:* Always install STV Test & Block Valve as part of trap station  
SEE PAGE 118

*Installation Tip:* Add Uniflex Pipe Coupling for ease of maintenance  
SEE PAGE 102

#### OPERATION

During startup, air and non-condensable gases enter the trap and are automatically vented through an accurate balanced pressure internal thermostatic air vent. As condensate enters the trap, the float and lever mechanism is raised, lifting the valve off

the seat, discharging the condensate. Condensate will continue to be discharged at the same rate at which it is entering. Any air or non-condensable gas that may accumulate will be continually and efficiently passed by the thermostatic air vent.

# MAX-FLO SUPER HIGH CAPACITY FLOAT & THERMOSTATIC STEAM TRAPS

## SPECIFICATION

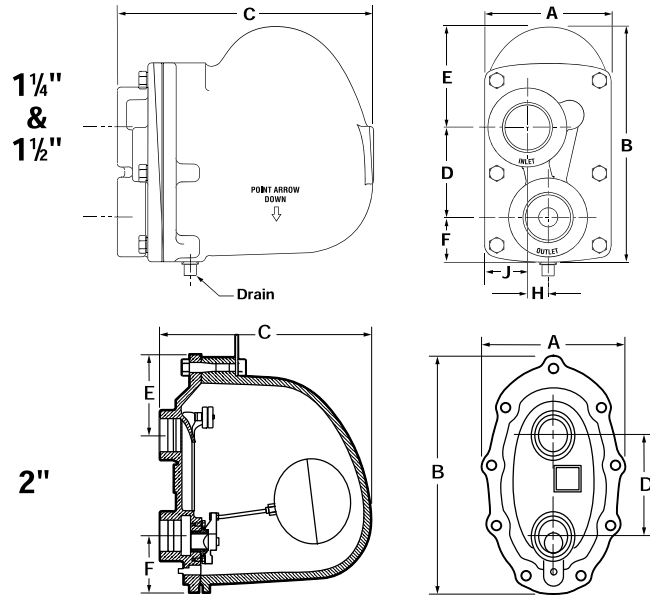
Steam trap shall be of float and thermostatic design. Float shall actuate the valve via a hinged lever and linkage. Air vent shall be of balanced pressure design with stainless steel welded encapsulated bellows capable of discharging air and noncondensable gases continuously. Trap shall be cast iron bodied suitable for pressures to 175 PSI and shall be a \_\_\_\_\_ NPT connection.

## MAXIMUM OPERATING CONDITIONS

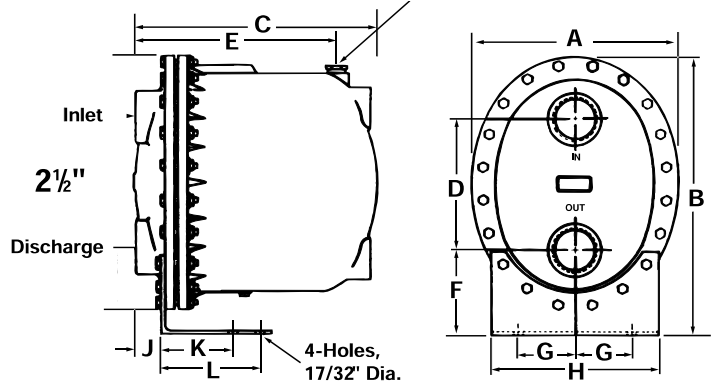
PMO: Max. Operating Pressure see orifice selection  
 TMO: Max. Operating Temperature saturated at pressure  
 PMA: Max. Allowable Pressure 175 PSIG (12.1 barg)  
 PMA: Max. Allowable Pressure 377°F (192°C)

## MATERIALS OF CONSTRUCTION

Body & Cover . . . . . Cast Iron 30,000 psi tensile  
 Valve Pin and Seat . . . . . Stainless Steel (Hardened)  
 Float . . . . . Stainless Steel  
 Lever Assembly . . . . . Stainless Steel  
 Thermostatic Air Vent . . . . . Stainless Steel Cage  
 & Thermal Element  
 Cover Bolts . . . . . Grade 5  
 Baffle . . . . . Stainless Steel (2-1/2 (65mm) units only)



1/4" Thermostatic Vent - To be piped to gravity return line.



| Dimensions |                         |              |              |              |             |              |             |         |              |            |             |         |                 |
|------------|-------------------------|--------------|--------------|--------------|-------------|--------------|-------------|---------|--------------|------------|-------------|---------|-----------------|
| MODEL      | NPT Size in. (mm)       | A            | B            | C            | D           | E            | F           | G       | H            | J          | K           | L       | Weight lbs (kg) |
| HC-175     | 1 1/4 & 1 1/2 (32 & 40) | 4 1/2 (108)  | 8 5/16 (211) | 8 7/16 (217) | 3 (76)      | 3 3/8 (86)   | 2 (51)      | —       | 4 5/8 (17.8) | 1 3/8 (35) | —           | —       | 18 (8)          |
| ALL        | 2 (50)                  | 10 (254)     | 15 (381)     | 15 1/2 (394) | 6 3/8 (168) | 4 3/4 (121)  | 3 1/2 (89)  | —       | —            | —          | —           | —       | 108 (49)        |
| ALL        | 2 1/2 (65)              | 14 1/2 (368) | 20 1/4 (514) | 17 3/8 (441) | 9 1/2 (241) | 14 1/8 (379) | 6 1/4 (159) | 5 (127) | 12 (305)     | 1 1/2 (41) | 4 1/2 (114) | 7 (178) | 175 (79)        |

| Maximum Capacity-lbs/hr |                |                            |             |          |          |          |           |          |          |           |          |          |          |          |          |           |           |            |            |
|-------------------------|----------------|----------------------------|-------------|----------|----------|----------|-----------|----------|----------|-----------|----------|----------|----------|----------|----------|-----------|-----------|------------|------------|
| Trap                    | Orifice Max ΔP | Differential - PSIG (barg) |             |          |          |          |           |          |          |           |          |          |          |          |          |           |           |            |            |
|                         |                | 1/4 (0.017)                | 1/2 (0.035) | 1 (0.07) | 2 (0.14) | 5 (0.35) | 10 (0.69) | 15 (1.0) | 20 (1.4) | 25 (1.69) | 30 (2.1) | 40 (2.8) | 50 (3.5) | 60 (4.2) | 75 (5.2) | 100 (6.9) | 125 (8.6) | 150 (10.4) | 175 (12.1) |
| HC-15, 2"               | .970           | 6500                       | 8000        | 9500     | 10800    | 15500    | 20900     | 24000    |          |           |          |          |          |          |          |           |           |            |            |
| HC-15, 2 1/2"           | 1.875          | 17000                      | 20000       | 27000    | 36000    | 46000    | 55000     | 60000    |          |           |          |          |          |          |          |           |           |            |            |
| HC-30, 2"               | .876           | 3400                       | 4600        | 6400     | 8400     | 12500    | 16900     | 19000    | 21500    | 23590     | 24000    |          |          |          |          |           |           |            |            |
| HC-30, 2 1/2"           | 1.624          | 14000                      | 17000       | 20900    | 25500    | 33200    | 40500     | 45500    | 49400    | 52700     | 55600    |          |          |          |          |           |           |            |            |
| HC-75, 2"               | .858           | 2550                       | 3150        | 4300     | 5450     | 7600     | 10400     | 11400    | 12500    | 13500     | 14250    | 15600    | 17150    | 18600    | 20500    |           |           |            |            |
| HC-75, 2 1/2"           | 1.031          | 5900                       | 7700        | 10000    | 13000    | 18600    | 24200     | 28300    | 31600    | 34400     | 36800    | 41100    | 44800    | 48040    | 52300    |           |           |            |            |
| HC-125, 2"              | .448           | 2300                       | 2800        | 3450     | 4200     | 5450     | 6600      | 7450     | 8050     | 8600      | 8950     | 10350    | 11950    | 13400    | 15600    | 18850     | 21800     |            |            |
| HC-125, 2 1/2"          | .797           | 4000                       | 5300        | 6900     | 9100     | 13000    | 17100     | 20000    | 22400    | 24500     | 26300    | 29400    | 32100    | 34650    | 37600    | 42100     | 46000     |            |            |
| HC-175, 1 1/4"          | .210           | 260                        | 350         | 480      | 640      | 940      | 1190      | 1450     | 1560     | 1670      | 1750     | 1910     | 2040     | 2100     | 2300     | 2500      | 2900      | 3140       | 3240       |
| HC-175, 1 1/2"          | .210           | 260                        | 350         | 480      | 640      | 940      | 119       | 1450     | 1560     | 1670      | 1750     | 1910     | 2040     | 2100     | 2300     | 2500      | 2900      | 3140       | 3240       |
| HC-175, 2"              | .375           | 2100                       | 2600        | 3000     | 3500     | 4400     | 4900      | 5350     | 5800     | 6250      | 6700     | 7600     | 8600     | 9550     | 11000    | 13000     | 14750     | 16500      | 18000      |
| HC-175, 2 1/2"          | .688           | 2460                       | 3350        | 4600     | 6200     | 9400     | 12800     | 15400    | 17500    | 19300     | 21000    | 23800    | 26300    | 28060    | 31600    | 35900     | 39700     | 43100      | 46200      |

For Kg/Hr Multiply by .454

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