# Venturi Steam Trap

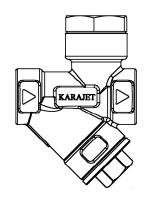


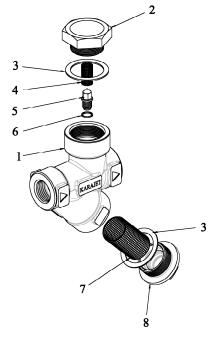
## **Description**

The trap has an integrated strainer and a removable venturi insert. At start-up, air and non-condensable gases are vented through the nozzle. After air evacuation, the saturated steam approaches the nozzle. Once the steam reaches the nozzle it begins to eject the condensate through the orifice. When hot condensate passes through the orifice, the pressure will drop and causes evaporation. The evaporated steam expands and leads to more condensate blockage due to higher orifice back pressure. These horizontal/vertical traps are easy to maintain

#### Material

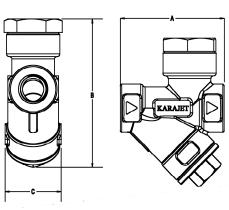
| NO | Part                     | Material            |
|----|--------------------------|---------------------|
| 1  | Body                     | ASTM A351-CF3M      |
| 2  | Top cap                  | ASTM A351-CF3M      |
| 3  | Gasket                   | Graphite            |
| 4  | Secondary strainer       | 316 stainless steel |
| 5  | Removable orifice insert | 316 stainless steel |
| 6  | Orifice insert gasket    | PTFE                |
| 7  | Primary strainer         | 316 stainless steel |
| 8  | Bottom cap               | ASTM A351-CF3M      |



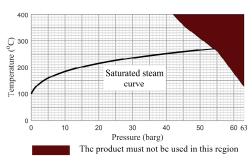


# Dimensions / weights (approximate) in mm and kg

| Size              | A       |      |      |     |    | Weight  |      |      |
|-------------------|---------|------|------|-----|----|---------|------|------|
|                   | Screwed | #150 | #300 | В   | С  | Screwed | #150 | #300 |
| $\frac{1}{2}$     | 80      | 180  | 190  | 120 | 42 | 1       | 2.1  | 2.7  |
| $\frac{3}{4}^{"}$ | 80      | 190  | 200  | 120 | 42 | 1       | 2.7  | 3.7  |
| 1                 | 80      | 195  | 205  | 120 | 42 | 1       | 3.4  | 4.6  |

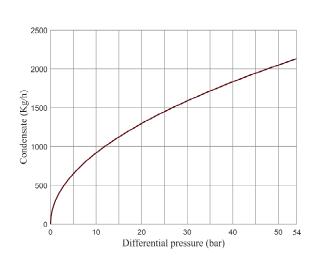


## **Pressure / temperature limits**



| Body design conditions            | PN63               |
|-----------------------------------|--------------------|
| PMA (Max. allowable pressure)     | 63 barg @<br>125°C |
| TMA (Max. allowable temp.)        | 400 °C @<br>42barg |
| Max. cold hydraulic test pressure | 95 barg            |

## **Capacities**



| Available |
|-----------|
| spares    |
| Removable |
| orifice   |
| Strainer  |
| screen    |
| Gaskets   |

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