The Ogontz Pinch Trap

Advanced Steam Trap Technology, Patented Pinch Mechanism
The Ogontz Pinch Trap

Incorporating a chemically resistant, patented, seal mechanism, the Pinch Trap automatically adjusts for optimal condensate removal.

Brass or optional 316 SS jacketed design provides rapid response to internal steam temperature/pressure regardless of external operating conditions.

316 Stainless Steel Body

Flexible modulator

Direction of flow

Control medium

Direction of flow

Principles of Operation

A control medium responds to steam temperature/pressure to control the removal of condensate.

Figure 1 (open): At cold start-up the Pinch Trap is wide open and ready for passing all air, scale, and non-condensable.

Figure 2 (closed): When steam reaches the modulator, it closes.

Figure 3 (modulated): After the Pinch Trap closes, the variable passage modulates in response to the condensate load. The passage adjusts to the load requirements.

Figure 1 (Open)

Figure 2 (Closed)

Figure 3 (Modulated)
Model OPT — for saturated steam systems only

Fixed condensate discharge temperature of ~240°F (115°C)
Model OPT 1-25 has a discharge temperature of ~200°F (93°C)

Applications
- Drip legs
- Winterizing steam tracing
- Process steam tracing
- Maintaining analyzer sample lines
- Instrument enclosure heater discharge
- Autoclaves
- Radiators
- Light loads

Start-up removal up to 1,000 lb./hr. (454 kg./hr.)
Maximum condensate discharge up to 200 lb./hr. (90 kg/hr.)

Longer Lasting By Design

The self-repairing variable passage design makes the Ogontz Pinch Trap immune to etching, a common cause of steam trap failure.

Advantages
- Greater temperature control
- No moving parts
- No metal to metal seating
- Minimal live steam loss
- Back pressure insensitive
- Install in any position
- Self draining when in vertical position
- Automatic air venting

End connections per ANSI B1.20.1 or ISO 7-1.
**Specifications and Ordering Information**

### Dimensions

![Diagram of Pinch Trap unit with dimensions A and B.]

<table>
<thead>
<tr>
<th>Size (NPT)</th>
<th>Range (psig)</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8 NPT/RT</td>
<td>1 – 25</td>
<td>Blank = NPT</td>
</tr>
<tr>
<td>1/2 NPT/RT</td>
<td>25 – 100</td>
<td>RT = ISO 7-1</td>
</tr>
<tr>
<td>3/4 NPT/RT</td>
<td>50 – 150</td>
<td></td>
</tr>
<tr>
<td>1 NPT/RT</td>
<td>100 – 200</td>
<td></td>
</tr>
</tbody>
</table>

**How to Order (Example)**

- Size (NPT): 3/8, 1/2, 3/4, or 1
- Range (psig): 1 – 25, 25 – 100, 50 – 150, 100 – 200
- Connection: Blank = NPT, RT = ISO 7-1

**The Ogontz Guarantee**

We will repair or replace on a no-charge basis, F.O.B. Willow Grove, PA, any Pinch Trap units returned to us within 18 months, if found to be defective in material or workmanship.