

HST20 Clean Steam Trap

HST20-01
09 /03

Staitech

HST20 Clean Steam Trap

The HST20 clean steam trap is designed to meet basic system specifications where surface finish requirements can be relaxed. The overall face-face dimension of the HST20 is also optimised to allow its use in applications where space may be restricted. The HST20 is ideal for steam mains drainage, and for draining process and reactor vessels during clean-in-place and steam-in-place operations.

The HST20 operates on a balanced pressure principle, whereby a reduction in the temperature of condensate in relation to the system temperature causes the internal bellows to contract, thus allowing condensate to drain from the trap. This operation typically takes place at 3-5°C below steam saturation temperature at any given system pressure.

Material certification is available covering all models, which where applicable, also meet current ASME BPE design criteria.

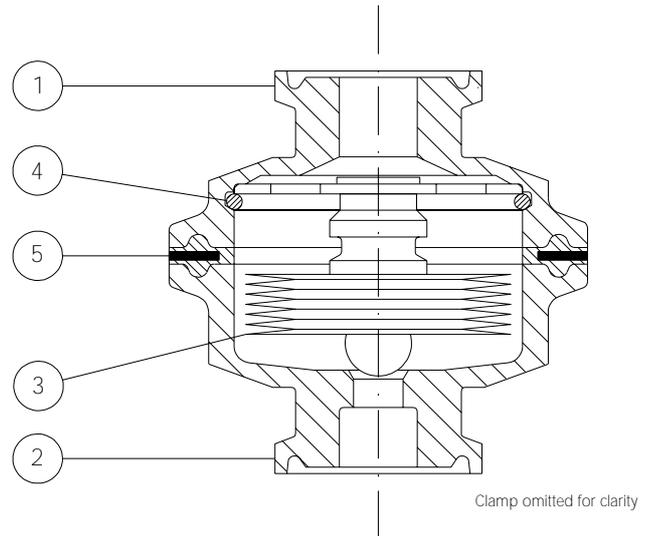
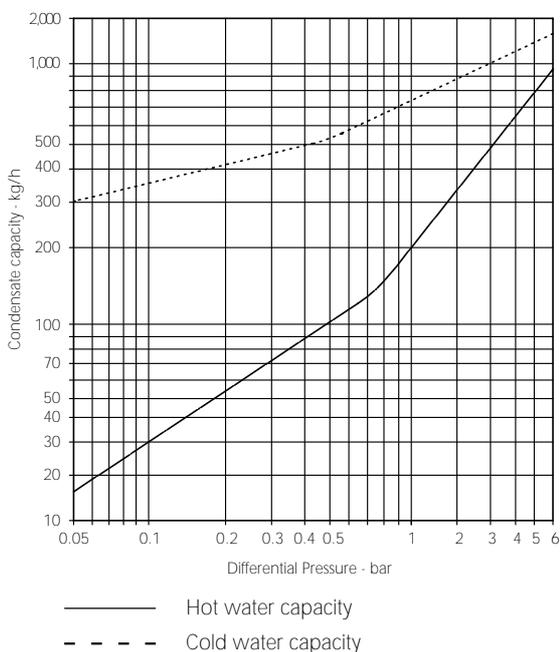
All trap components are degreased and rinsed in an ultrasonic bath using deionised water prior to assembly. Once assembled, traps are capped and sealed in a protective polythene bag and individually boxed.

Features offered by the HST20 include:

- Fully machined design - ensures uniform surface finish.
- Near-to-steam operating characteristics - ensures consistent system temperature.

• Compact - simplifies installation.

Flow capacities



Materials of construction

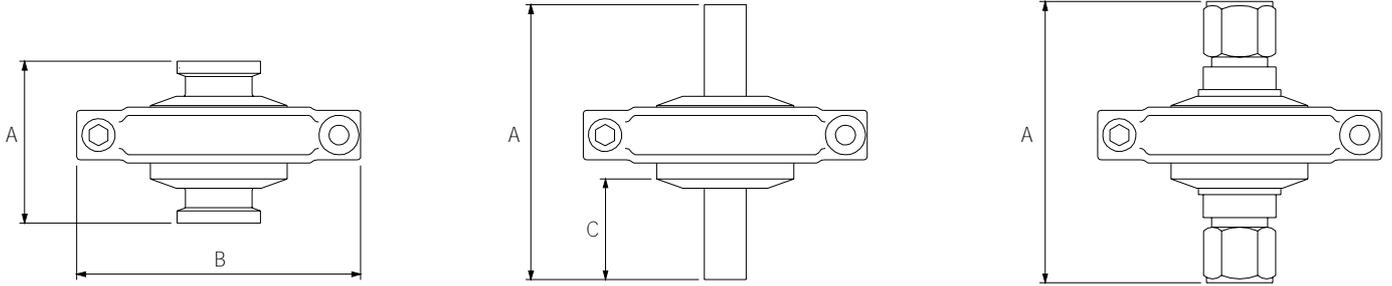
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|----------------------|----------------------------|
| 1. Inlet connection | 316L Stainless steel |
| 2. Outlet connection | 316L Stainless steel |
| 3. Element assembly | 316/316L Stainless steel |
| 4. Element retainer | 316 Stainless steel |
| 5. Seal | PTFE/Viton envelope gasket |
| 6. Body Clamp | 304 Stainless steel |

Seal material is FDA compliant

Product Specification

| | |
|------------------------------------|---|
| Sizes | 1/2", 3/4" & 1" |
| Standard connections | Tri-Clamp® compatible |
| Connection options | O.D. Tube Compression fittings to suit 1/2" O.D. T tube Clamp and tube weld to ISO, DIN & SMS standards Threaded |
| Maximum operating pressure(PMO) | 6.0 barg |
| Maximum allowable temperature(TMA) | 170°C |
| Maximum allowable pressure(PMA) | 8.0 barg |
| Surface finish: | |
| All wetted surfaces | 1.0 micron Ra |
| External surfaces | 1.2 microns Ra |
| Options | 2-piece hinged body clamp |

Specification subject to change without notice



Dimensions(mm)

| | A | B | C | Weight(kg) |
|---------------------|----|----|----|------------|
| Clamp | 49 | 85 | - | 0.3 |
| O.D. Tube | 82 | 85 | 28 | 0.3 |
| Compression fitting | 82 | 85 | - | 0.4 |