

PT10

THERMODYNAMIC STEAM TRAPS



DESCRIPTION:

Thermodynamic steam trap with inbuilt strainer in full stainless steel construction, best suited for header and main line drains and drip legs.

FEATURES:

Complete stainless steel construction ensures better mechanical and corrosion resistance properties. The disc and seat are hardened by a special induction hardening process with seat harder than disc, to withstand continuous, prolonged operation.

Condensate entry below the disc, concentric to the disc/seat ensures a clean and parallel lift of the disc with reference to the seat, eliminating localized wear and tear.

The inbuilt strainer screen is of adequately large area.

Ideal for fluctuating loads and pressures.

Perfect shut-off, no steam loss.

SIZES: DN15, 20

CONNECTIONS: Screwed (NPT/BSPT/BSP)
Socket weld/Flanged*

*End connection flanges of ASTM A105 forged carbon steel are welded on.

Non IBR/IBR approved

LIMITING CONDITIONS:

PMA: Max. allowable pressure	21 bar(g)
TMA: Max. allowable temperature	425° C
Maximum operating back pressure at the outlet should not exceed 80% of the inlet pressure.	
Minimum differential pressure for satisfactory operation	0.25 bar
Cold hydro test pressure	32 bar(g)

INSTALLATION:

The trap will operate in any position but the preferred installation is in the horizontal plane with the disc cap on the top. Full port isolating valves should be installed upstream and downstream of the trap. Always open isolation valves slowly until normal operating conditions are achieved to avoid system shocks.

MAINTENANCE:

This trap can be maintained without disturbing the piping connections. Ensure that the trap is isolated - upstream and downstream - before attempting to dismantle it. **ALLOW THE TRAP TO COOL BEFORE DISMANTLING.**

For trouble-free performance, periodic cleaning of the disc, seat and strainer screen is recommended.

Do not use abrasive/corrosive media for cleaning. Only the disc and seat are subject to wear.

A worn disc can be replaced. Slight seat wear can often be corrected by resurfacing on a lap plate.

IMPORTANT:

The trap should be installed as close as possible to the system drain point.

For new installations, the system should be properly flushed prior to fitting the trap.

MATERIAL:

NO.	PART	MATERIAL	QTY. (Nos.)
1.	BODY (Seat Hardened)	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
2.	DISC CAP	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
3.	STRAINER CAP	ASTM A743 Gr CA 40 (Cast Equiv. AISI 420)	01
4.	STRAINER SCREEN	AISI 304 (Perforated Sheet 0.8)	01
5.	DISC (Hardened)	AISI 410	01
6.*	ISOTUB	AISI 304	01

*OPTIONAL FITTINGS

ISOTUB: An insulating cover reduces the effect of excessive heat loss resulting from low ambient temperatures, wind, rain, etc.

BLOW DOWN VALVE: When the blow down valve is opened, loose material collected in the strainer is purged.

DIMENSIONS:

Nominal in mm
Screwed/Socket Weld Traps

SIZE	A	B	C	D	E	F	Wt
DN15	60	84	30	80	38	36	0.5 kg
DN20	68	84	30	80	38	36	0.75 kg

Flanged Traps

Model	Size / Rating	G	Wt
PT10	DN15/#150	138	1.70 kg
PT10	DN20/#150	152	2.4 kg

AVAILABLE SPARES:

Disc, Strainer Screen (Packet of 5),
Blow Down Valve, Isotub

HOW TO ORDER:

PT10 DN15 BSP NIBR

ORDERING INFORMATION:

- 1) Inlet Pressure in bar(g)
- 2) Back Pressure in bar(g)
- 3) Operating Temperature in °C
- 4) Condensate Load in kg/hr
- 5) Size & Model
- 6) End Connections
- 7) IBR/Non-IBR

Local regulations may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interest of development and improvement of the product, we reserve the right to change the specifications without prior notice.

All Dimensions are in mm. weights in kg.

