

PT17R

THERMODYNAMIC STEAM TRAPS



PT17R with
Threaded Cap

PT17R with
Bolted Cover

DESCRIPTION:

Fully repairable Thermodynamic steam trap with integral strainer, in forged carbon steel construction, for steam mains, tracers, headers & drip legs.

FEATURES:

- All Repairable Working Parts
- Easy to repair – Bolted Bonnets
- Complete stainless steel internals ensure better mechanical and corrosion resistance properties, hence longer life
- Hardened and lapped disc and seat provide a steam tight seal, withstanding continuous and prolonged operation
- Ideal for fluctuating loads and pressures
- Perfect shut off, no steam loss

SIZES: DN15, 20, 25

CONNECTIONS: Screwed (NPT/BSPT/BSP)
Socket Weld, Flanged*,
Butt Weld

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

Non IBR/IBR approved

LIMITING CONDITIONS:

	With Bolted Cover	With Threaded Cap
PMA: Max. allowable pressure	50 bar(g)	31.6 bar (g)
TMA: Max. allowable temperature	425° C	425 deg 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	0.25 bar (g)
Cold hydro test pressure	75 bar(g)	63.2 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. 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:

The trap can be maintained inline without disturbing the piping connections. Ensure that the trap is isolated – upstream and downstream- before attempting to dismantle it.

ALLOW THE TRAP TO COOL AND DEPRESSURIZED BEFORE DISMANTLING.

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

Do not use abrasive/corrosive media for cleaning.

Only the disc and seat are subject to wear.

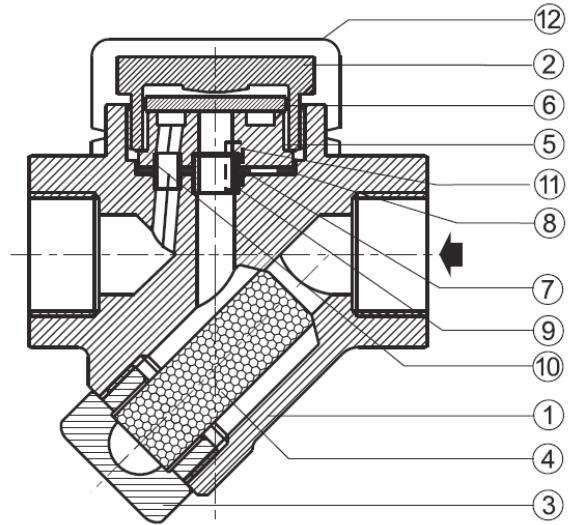
A worn disc and seat should be replaced, as a set, along with the gaskets.

IMPORTANT:

The traps should be installed as close as possible to the system drain point. For new installation, the system should be flushed prior to installation.

MATERIAL: FOR PT17R WITH THREADED CAP

NO.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ASTM A105	1
2.	DISC CAP	ASTM A743 Gr. CA40	1
3.	STRAINER CAP	ASTM A743 Gr. CA40	1
4.	STRAINER SCREEN	AISI 304 (Perforated Sheet 0.8)	1
5.	DISC SEAT (Hardened)	AISI 420/D2	1
6.	DISC (Hardened)	AISI 410/420/D2	1
7. & 8.	GASKET	SPIRAL WOUND - (SS) WITH GRAFOIL FILLER	2
9.	LOCATOR	AISI 304	1
10.	TUBE	AISI 304	1
11.	PIN	AISI 304	2
12.	ISOTUB	STAINLESS STEEL	1

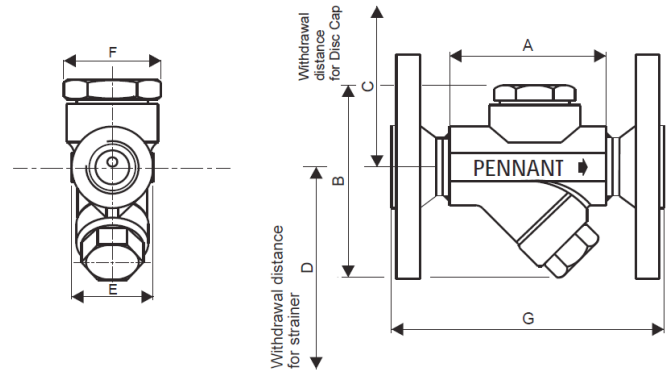


DIMENSIONS:

Nominal in mm

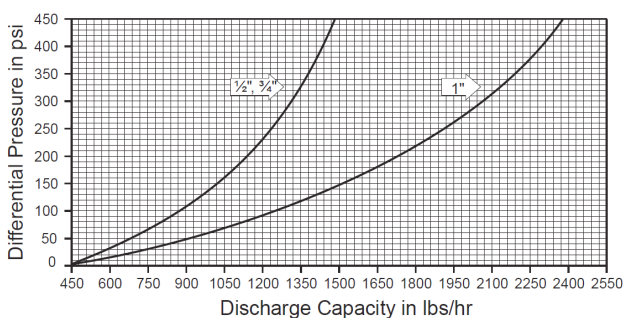
For Screwed/Socket Weld Traps

SIZE	A	B	C	D	E	F	Wt
DN15, DN20	85	102	55	85	40.5	42	1.3 kg
DN25	102	115	65	90	48	50	2.0 kg



For Flanged Traps

SIZE / FLANGE RATING	G	Wt. APPROX
DN15 #150	162	2.5kg
DN15 #300	171	3.1kg
DN15 #600	184	3.5kg
DN20 #150	165	2.95kg
DN20 #300	175	3.8kg
DN20 #600	188	4.2kg
DN25 #150	190	4.35kg
DN25 #300	200	5.55kg
DN25 #600	215	6kg



All Dimensions are in mm. weights in kg.

MATERIAL: FOR PT17R WITH BOLTED COVER

NO.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ASTM A105	01
2.	Cover	ASTM A105	01
3.	Strainer Cap	ASTM A743 Gr. CA40	01
4.	Strainer Screen	AISI 304 (φ0.8 PERF.)	01
5.	Disc Seat (Hardened)	AISI 420	01
6.	Disc (Hardened)	AISI 420	01
7.	Gasket	Spiral Wound –	01
8.	Gasket	AISI304 Graphite Filler	02
9.	Locator	AISI 304	01
10.	Tube	AISI 304	01
11.	Stud	ASTM A193 Gr. B7	04
12.	Nut	ASTM A194 Gr. 2H	04

OPTIONAL FITTINGS

Blow Down Valve: When the blow down valve is opened, loose material collected in the strainer is purged

DIMENSIONS:

Nominal in mm

For Screwed/Socket Weld Traps

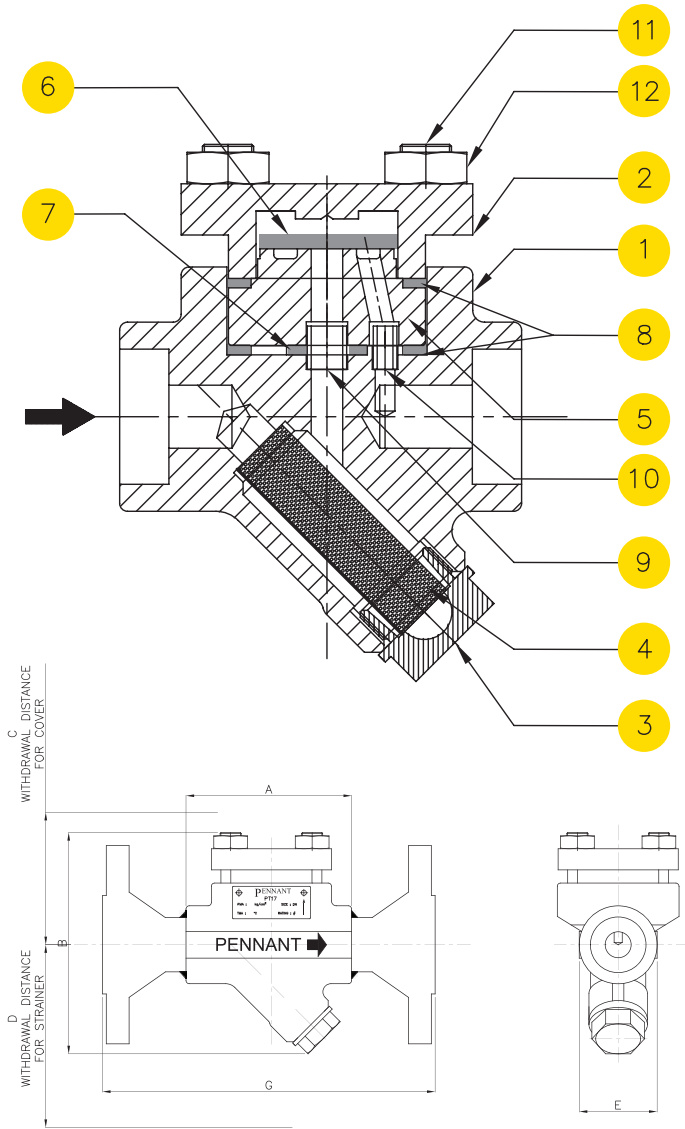
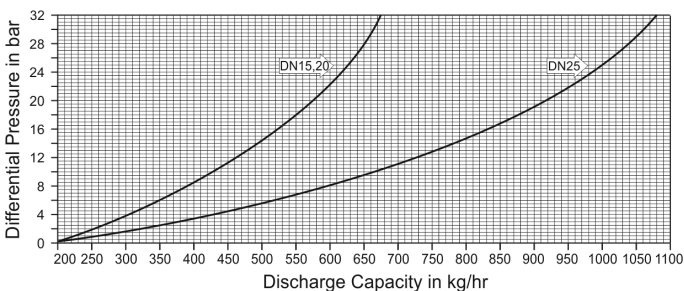
Model	Size	End Connection	A	B	C	Approx. Wt.(kg)
PT17R	DN25	SW/BSP/BSPT/NPT	102	137	100	2.4

For Flanged Traps

Size/Flange Rating	G (mm)	Wt. approx.
DN25 #150	190	4.15
DN25 #300	200	5.95
DN25 #600	215	6.40

AVAILABLE SPARES:

Disc, Disc Seat, Set of Gaskets, Strainer Screen (Packet of 5), Blow Down valve



HOW TO ORDER:

PT17R DN25 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.