

# PT14N

## THERMODYNAMIC STEAM TRAPS



### DESCRIPTION:

Thermodynamic steam trap with full stainless steel internals. Best suited for high pressure line drains with low to medium condensate loads.

### FEATURES:

- Complete stainless steel internals ensure better mechanical & corrosion resistance properties.
- Condensate entry below the disc, concentric to the disc/seat ensures a clean & parallel lift of the disc with reference to the seat, eliminating localized wear & tear.
- The disc & seat are fully hardened by a special hardening process, to withstand continuous, prolonged operation.
- Perfect shut off, no steam loss.
- Robust, maintenance free, fully guaranteed.

**SIZES:** DN15, 20, 25

**CONNECTIONS:** Socket Weld/Butt Weld

**Non IBR/IBR approved**

### LIMITING CONDITIONS:

PMA: Max. allowable pressure	258.6 bar @ 38° C
TMA: Max. allowable temperature*	538° C up to 92 bar
Maximum operating back pressure at the outlet should not exceed 50% of the inlet pressure	
Max. operating pressure	92 bar @ 538° C Above 92 bar(g), a reduction in working life may be experienced
Minimum differential pressure for satisfactory operation	8 bar
Cold hydro test pressure	388 bar(g)

\* Can be supplied for higher temperature on request.

### INSTALLATION:

The trap will operate in any position but the preferred installation is in a horizontal position with the disc seat cover on top. Full port isolating valves should be installed upstream and downstream of the trap. After the first 24 hours of service the cover nuts should be checked for tightness.

### MAINTENANCE:

The disc and seat should be inspected for wear.

All worn or damaged parts should be replaced with new spares. The disc seat is replaceable. Ensure that all gaskets are replaced every time the trap is dismantled.

ALLOW THE TRAP TO COOL BEFORE DISMANTLING.

### IMPORTANT:

To prevent water logging, it is required that the line be drained using the bypass, at start-up.

The trap should be installed as close as possible to the equipment to be drained.

For new pipe lines, ensure that the lines are properly flushed, prior to fitting the trap.

**MATERIAL:**

NO.	PART	MATERIAL	QTY. (Nos.)
1.	BODY	ASTM A182 Gr. F22 CL3	01
2.	COVER	ASTM A182 Gr. F22 CL3	01
3.	STRAINER COVER	ASTM A182 Gr. F22 CL3	01
4.	DISC	STELLITE6	01
5.	DISC SEAT	ASTM A681 Gr. D2 (HARDENED)	01
6.	GASKET-OUTER	SPIRAL WOUND GASKET WITH GRAPHITE	02
7.	GASKET-INNER	AISI 304	01
8.	LOCATOR (INLET)	AISI 304	01
9.	TUBE (OUTLET)	AISI 304	01
10.	STUD FOR COVER	ASTM A193 Gr. B16	04
11.	NUT FOR COVER	ASTM A194 Gr. 7	04
12.	STRAINER SCREEN	AISI 304 (40 MESH)	01
13.	GASKET (STRAINER COVER)	SPIRAL WOUND GASKET WITH GRAPHITE AISI 304	01
14.	STUD FOR STRAINER COVER	ASTM A193 Gr. B16	04
15.	NUT FOR STRAINER COVER	ASTM A194 Gr. 7	04

\*F11 on request

**DIMENSIONS:**

Nominal in mm

Socket Weld/Butt Weld Traps

END CONNS.	SIZE	A	B	C	Wt.
Socket Weld	DN15, 20, 25	106	84	78	7kg
Butt Weld	DN15, 20, 25	106	84	78	7kg

**AVAILABLE SPARES:**

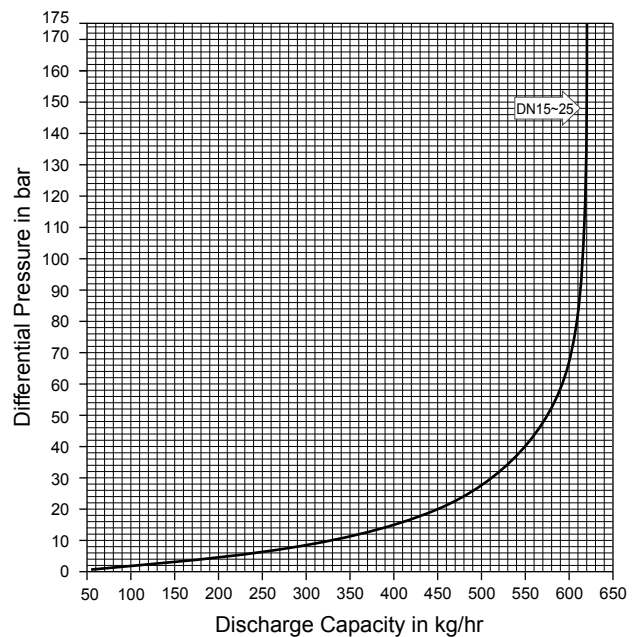
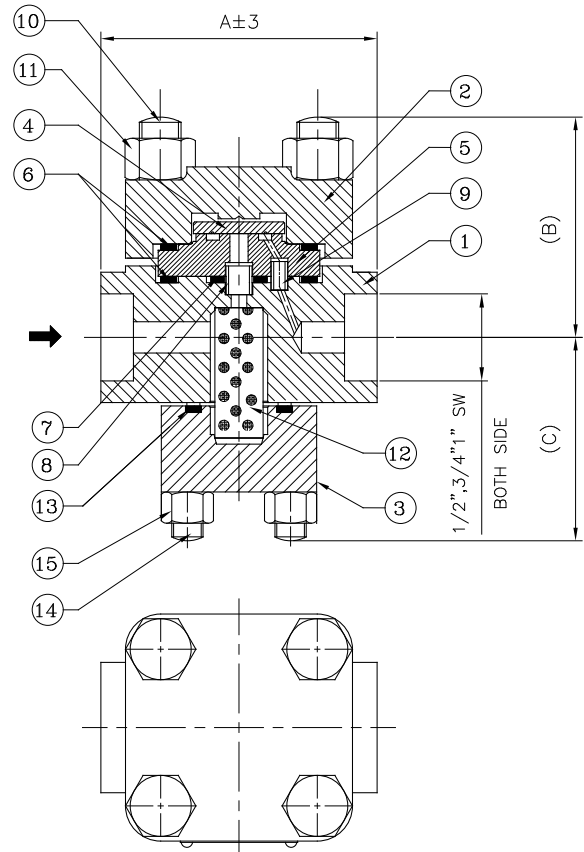
Set of internal working parts:- Disc, Disc seat, Set of gaskets, Strainer screen (packet of 5), Isotub

**HOW TO ORDER:**

PT14N DN25 SW IBR

**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.