

Model TDS45

Thermodynamic DiscTrap

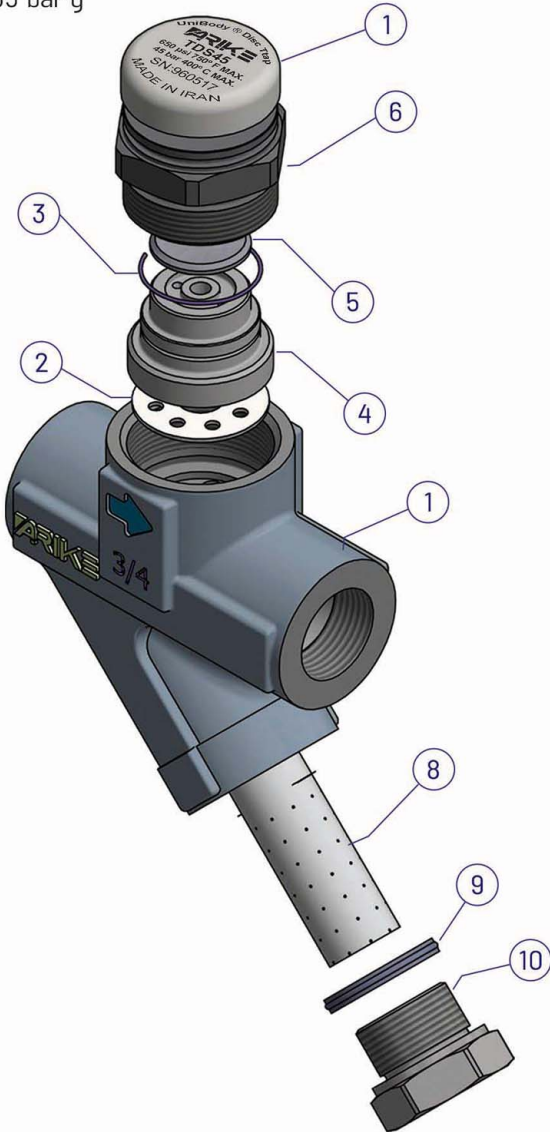
Rating TDS 45

Design: 650 psig, 750°F

Operating: 40 to 650 psig, 750°F (3 to 45 bar/400°C).

Back pressure to 80% of inlet, Pisa.

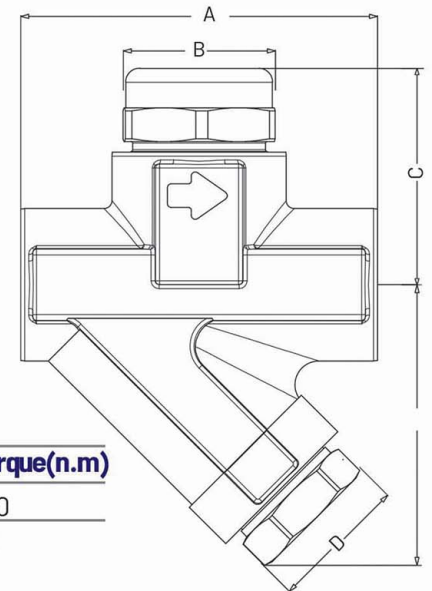
Designed for a maximum cold hydraulic test pressure of 95 bar g



Thermodynamic Trap :

- Easy to check cyclic operation
- Designed to fail open
- Self-draining (vertically mounted)
- Energy efficient sub cooled operation
- Hardened, rugged stainless steel internals
- Installation in any position
- Single moving part
- Unaffected by freezing
- Unaffected by water hammer
- Designed for superheat

Spare Parts	Item
Replaceable Module	2,3,4,5,6,7
Seat Gasket , Seat	2,4
Disc	5
Screen	8
Cap Gasket	9



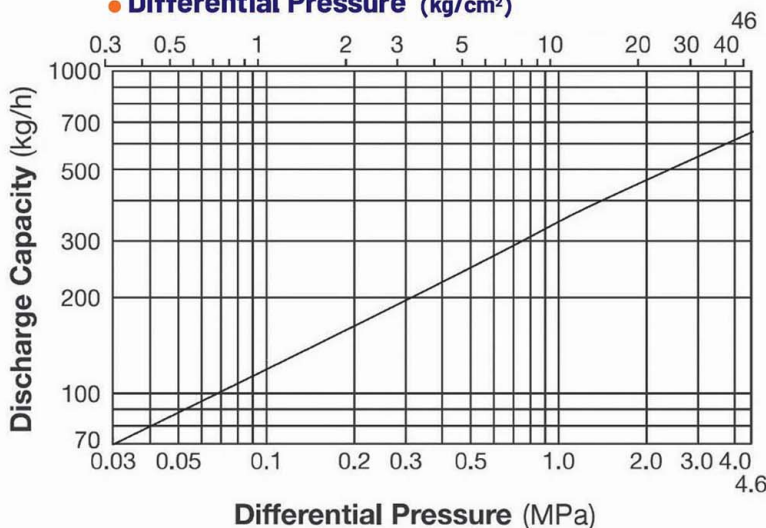
Tightening torques (Installation Instructions)

Item	Part	Torque(n.m)
6	Bonnet	450
10	Blank Strainer Cap	50

Thermodynamic Steam Trap Dimensions and Weights

Trap Size		Nominal Dimensions. [mm]						Weight(kg)
In	DN	A	B	C	D	E	K	TD45HP
1/2"	15	80	38	54	27	73	1/2 NPT	1.1
3/4"	20	90	38	54	30	83	3/4 NPT	1.3
1"	25	100	38	54	30	86	1 NPT	1.5

Differential Pressure (kg/cm²)



Parts/ Material

Item	Part	Material
1	Body	ASTM A105
2	Seat Gasket	Stainless steel/Graphoil
3	Retaining Ring	Stainless steel
4	Seat	Stainless steel 420 HT
5	Disc	Stainless steel 420 HT
6	Bonnet	Stainless steel 420
7	Air Jacket	Stainless steel 304
8	Screen	Stainless steel 304
9	Cap Gasket	Stainless steel/Graphoil
10	Blank Strainer Cap	Stainless steel 304

*Selected according to working conditions.