

ARIKE

High Pressure Thermodynamic Steam Trap with Replaceable Seat



TDH 150

ARIKE HIGH PRESSURE THERMODYNAMIC DISC STEAM TRAPS TDH150
REPAIRABLE DRIP AND TRACER STEAM TRAPS

Wide range of steam traps that provide consistent performance in less than perfect conditions.

FEATURES
Thermodynamic Traps

- Repairable
- Easy to check cyclic operation
- Fail open design
- Self-draining (vertical mount)
- Energy efficient subcooled discharge
- Hardened stainless steel valve body and seat
- Single moving part
- Freeze proof
- Withstand superheat
- Unaffected by water hammer


APPLICABLE CODES AND STANDARDS

Pressure ratings per ANSI/FCI-69-1.
Performance testing per ANSI/ASME PTC-39.1.
End connections per ANSI B16.11.

Trap operating conditions:
Series TDH150

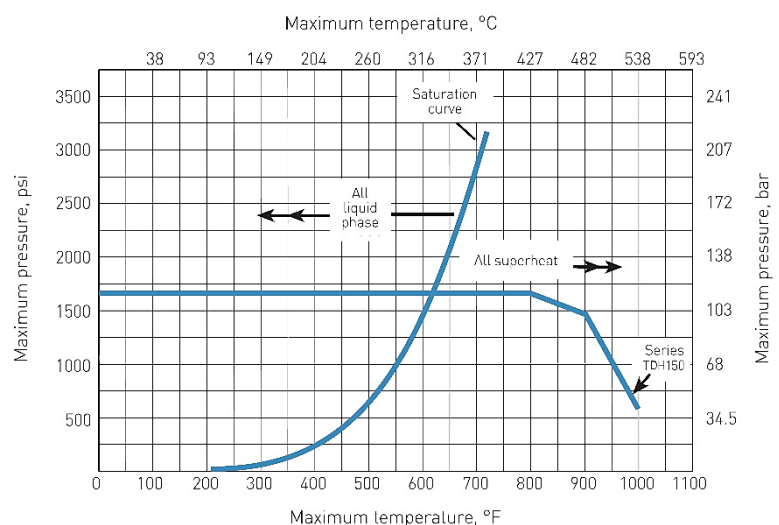
Maximum
operating pressure: 1500 psig (103 barg)

Minimum
operating pressure: 150 psig (10.3 barg)

Maximum
operating temperature: 900 ° F (482 ° C).

BACK PRESSURE RATINGS

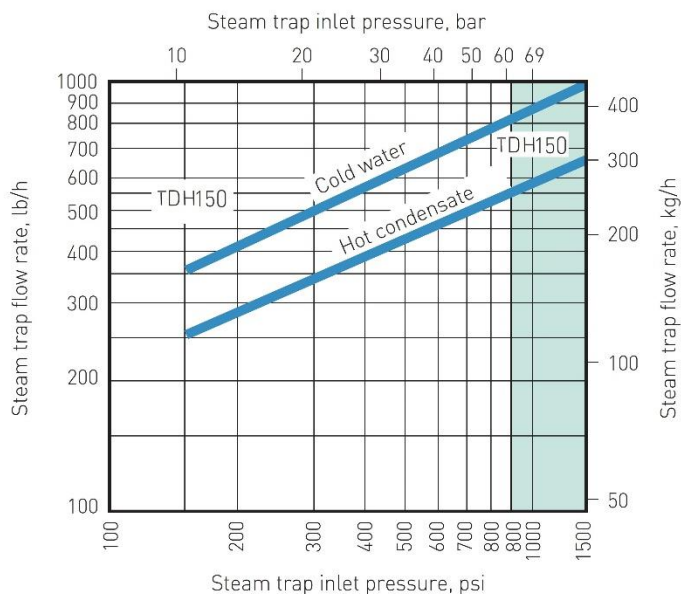
Back pressure to 80%. Back pressures are based on absolute pressure.

SHELL PRESSURE/TEMPERATURE RATINGS


OPERATING PRESSURE RANGES VS. CONDENSATE CAPACITY NEAR STEAM TEMPERATURE
(for steam trap sizing)

PARTS AND MATERIALS

Material specification		
Part no	part	TDH150 (Class 1500)
1	Body	Forged chrome moly ASME SA-182 F-11, 15 Max. C
2	Trap bonnet	Forged chrome moly ASME SA-182 F-11, 15 Max. C
3[1][2]	Seat	Stainless steel AISI series 400 heat treated
4[1][2]	Cap	Stainless steel AISI series 400 heat treated
5[1][2]	Disc	Stainless steel AISI series 400 heat treated
6[1][2]	Cap gasket	Grafoil, spiral wound non-asbestos
7[1]	Screen	Stainless steel AISI series 300, 0.020" perf.
8[1]	Studs	Steel ASME SA-193 B-16
9[1]	Nuts	Steel ASTM A-194 B-7
10[1]	Bonnet gasket	Inconel/Graphite spiral wound non-asbestos
11[1]	Seat gasket	Inconel/Graphite spiral wound non-asbestos

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SERIES TDH150 TO 1500 PSIG (103 BARG) HIGH PRESSURE STEAM TRAPS
HOW TO SELECT AND ORDER

Typical specifications - the trap shall be an integral strainer disc trap with removable capsule, and shall require neither bucket, bellows, nor bimetallic element for operation.

Ordering

1. Designate size of end connections (weights and dimensions table).
2. Designate figure number (selector guide).
3. Designate 'R' for commercial.

TECHNICAL DATA

Technology: Thermodynamic

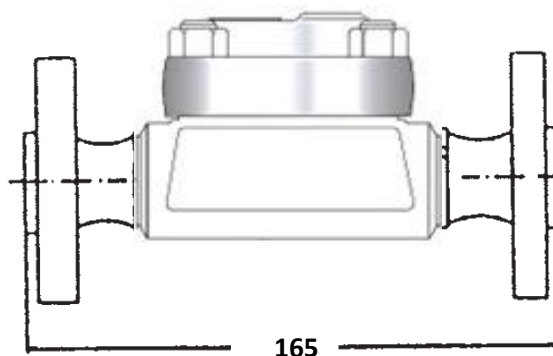
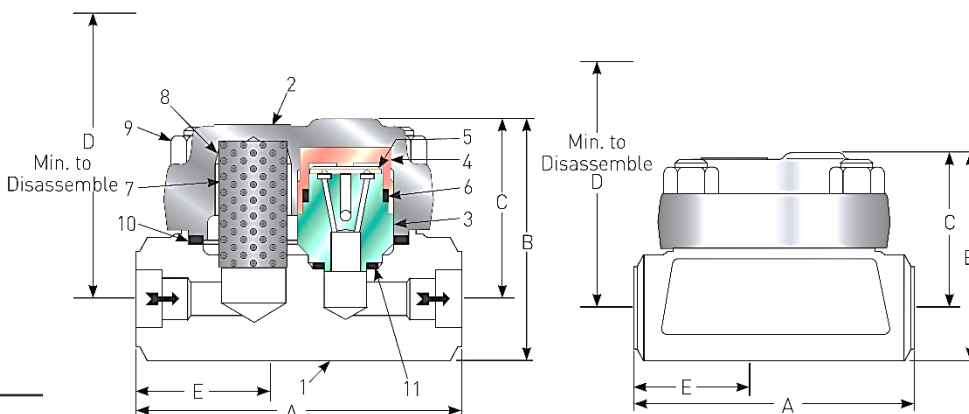
Size: 1/2", 3/4", 1"
(DN 15, 20, 25)

Temperature and Pressure Rating: See Pressure and Temperature ratings curves

Capacity: Up to 990 lb/h (450 kg/h)

Connections: Socket weld, flanged on request

Materials: Low carbon chrome moly steel


DIMENSIONS AND WEIGHTS TDH150

SIZE	Nominal dimensions, in. (mm)							WEIGHT IB(KG)
	A	B	C	D	E	G	H	
1/2 (15)	4 7/8 (104.8)	3 7/8 (79.4)	5 3/4 (146)	2 7/32 (56.4)	0.860 (21.8)	27/32 (56.4)	3/8 (10.0)	16 (7.26)
3/4 (20)	4 7/8 (104.8)	3 7/8 (79.4)	5 3/4 (146)	2 7/32 (56.4)	1.070 (27.2)	27/32 (56.4)	1/2 (12.5)	16 (7.26)
1 (25)	4 7/8 (104.8)	3 7/8 (79.4)	5 3/4 (146)	2 7/32 (56.4)	1.335 (33.9)	27/32 (56.4)	1/2 (12.5)	16 (7.26)

Arike manufactures a wide variety of Thermodynamic Traps in all pressure-and temperature ranges, and with multiple configurations to effectively drain condensate from steam mains, tracer lines and steam turbines. Select the model that fits your needs from low to supercritical pressure applications.

Model	Thermodyne		Max Allowable Temp (°C)	Operating Press. Range (bar)	Protection From Ambient temperature	Air venting	Body Material	EQUAL
Renewal capsules without removing the bodies from the line								
TDS	45		400	42	Air Jacket	--	Carbon Steel (A105)	YARWAY (USA) 711-721
	42		400	42	Air Jacket	--	ASTM A743 Gr CA 40	SPIRAX (ENGLAND) TD 42 TLV (JAPAN) P46S
Wide range of pressure discharge capacities								
TDL	P46L P46H P46M		425	46	Air Jacket	Bimetal	Carbon Steel (A105)	TLV-JAPAN P46SRN P46SRM P46SRW P65SRN
	P65		425	65				
TDX	62		550	62	Air Jacket	Bimetal	(A182 F11) Carbon Steel (A105)	SPIRAX (ENGLAND) TDS46M TD42H
	46		425	46				
	62LM		482	8-62	Air Jacket	--	ASTM A276 WC6	SPIRAX (ENGLAND) TD62
TDG	50		380	50	Air Jacket	Bimetal	Carbon Steel (A105)	DOUGLAS DC 50 (ITALIA)
Introduction for specific applications								
TDN	13		200	0.3 – 13	Steam Jacket	Bimetal	Ductile Cast Iron FCD450	TLV (JAPAN) A3N
TDY	131		400	0.3 – 40	---	--	Stainless Steel (AISI400)	YARWAY (USA) 131
Ideal for use on high-temperature / high-pressure steam mains								
TDH	120		550°C @ 80 bar	220 bar @ 374°C	---	--	A182F22	SPIRAX (ENGLAND) TD120M
	150		482	103	---	--	A182F11	YARWAY (USA) 515 D3

*connections available: S = screwed, W = socket weld, F = flanged. All Arikeh TD Models with replaceable module. Full details can be found on individual SDS.



STEAM TRAP SPECIALIST



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دفتر مرکزی : اصفهان، سپاهان شهر، بلوار غدیر، مجتمع آتایار، واحد 32i

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کارخانه : اصفهان ، شهرک صنعتی مبارکه ، خیابان ۱۲ فرعی دوم

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