TUX THERMODYNE STEAM TRAP

MODEL HR80A ALLOY STEEL

THERMODYNAMIC DISC TRAP WITH THERMOSTATIC AIR VENTING

Features

Air-jacketed disc trap for drainage of high pressure and temperature steam mains and turbines.

- 1. Inline replaceable valve module for ease of maintenance and low cost of repair.
- 2. Lapped disc provides steam-tight seal.
- 3. Air jacket reduces radiant heat loss to reduce no-load cycling and so extend life.
- 4. Quick thermostatic air venting with bimetal ring allows fast start-up and elimination of air-binding.
- 5. Built-in screen with large surface area for extended trouble-free operation
- 6. Hardened working surfaces guarantee long service life.



Specifications

Model		HR80A			
Connection		Socket Welded	Butt Welded		
Size		DN 15, 20, 25	DN 15, 25		
Maximum Operating Pressure (barg)	PMO	80			
Minimum Operating Pressure (barg)		8			
Maximum Operating Temperature (°C)	ТМО	475			
Maximum Back Pressure		50% of Inlet F	Pressure		

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 80 1 bar = 0.1 MPa Maximum Allowable Temperature (°C) TMA: 475

CAUTION To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	DIN*	ASTM/AISI*
1	Body	Alloy Steel A182F22 Cl. 3	1.7380	—
2 ^R	Cover	Stainless Steel SUS403	1.4000	AISI403
3 ^R	Module Valve Seat	Stainless Steel SUS440C	1.4125	AISI440C
(4) ^R	Disc	Stainless Steel SUS440C	1.4125	AISI440C
(5) ^R	Air Vent Ring	Bimetal	—	
6 ^R	Disc Holder Ring	Stainless Steel SUS630	1.4542	AISI630
\bigcirc^{MR}	Module Gasket	Stainl. Stl. SUS309S+Cb/Graphite	1.4833	AISI309S+Cb
(8) ^{MR}	Module Gasket	Stainl. Stl. SUS309S+Cb/Graphite	1.4833	AISI309S+Cb
9 ^r	Screen outside/inside	Stainless Steel SUS304/430	1.4301/4016	AISI304/430
10	Cover Bolt	Alloy Steel SNB16	1.7711	A193 Gr. B16
1	Nameplate***	Stainless Steel SUS304	1.4301	AISI304
(12)	Сар	Stainless Steel SUS304	1.4301	AISI304
13	Set Screw**	Stainless Steel SUS304	1.4301	AISI304
(14) ^R	Guide Pin	Stainless Steel SUS304	1.4301	AISI304



* Equivalent materials ** Shown overleaf *** Not shown

Replacement kits available: (M) maintenance parts, (R) repair parts

TLV

Consulting & Engineering Service

(mm)

(mm)

Dimensions

• HR80A

• HR80A

Butt Welded



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TLV F 2 2 Ē

HR80A Socket Welded*

DN	L	н	H1	φD	φC	h	Weight (kg)
15					21.70		3.9
20	110	115	90	48	27.05	14	3.8
25					33.80		3.7

* ASME B16.11, other standards available

HR80A Bu	tt Welded*
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DN	L	Н	Hı	φD	φd₂	φd₃	¢d₄	l 2	(kg)
15	110	115	00	24	22	17	15	20	2.0
25		115	90	37	34	28	25	20	3.0

* DIN 3239 Form C (PN 100), other standards available



Discharge Capacity



1. Differential pressure is the difference between the inlet and outlet pressure of the trap.

2. Recommended safety factor: at least 2.

Manufacturer CO., LTD. Kakogawa, Japan roved by LRQA Ltd. to ISO 9001/14001



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SDS U2004-32 Rev. 11/2004 Specifications subject to change without notice.