



PowerDyne® STEAM TRAP

MODEL HR150A ALLOY STEEL

THERMODYNAMIC STEAM TRAP FOR HIGH PRESSURES

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. Built-in screen with large surface area for extended trouble-free operation
5. Hardened working surfaces guarantee long service life.



Pressure Equipment Directive (PED)

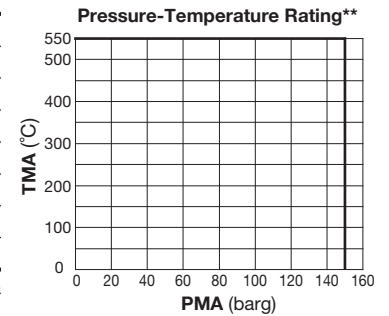
Classification according to PED 2014/68/EU, fluid group 2

Size	Category	CE marking
DN 15 to 25	—*	Art. 4, Sec. 3 (sound engineering practice), CE marking not allowed

* Manufactured in accordance with sound engineering practice

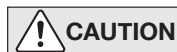
Specifications

Model		HR150A	
Connection		Socket Welded	Butt Welded
Size		DN 15, 20, 25	DN 15, 25
Maximum Operating Pressure (barg)	PMO	150	
Minimum Operating Pressure (barg)		16	
Maximum Operating Temperature (°C)	TMO	550	
Maximum Allowable Pressure (barg)	PMA*	150 @ 550 °C	
Maximum Allowable Temperature (°C)	TMA*	550 @ 150 barg	
Maximum Back Pressure		50% of Inlet Pressure	



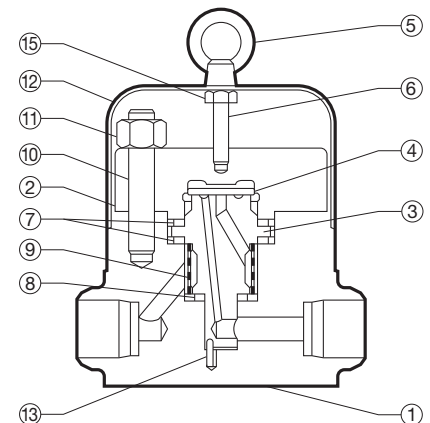
* PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS) 1 bar = 0.1 MPa

** This Rating Graph is based on Allowable Stress Values of ASTM-Materials at each temperature.



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	—
		Alloy Steel (9%Cr - 1%Mo)**	1.4903	—
② ^R	Cover	Stainless Steel SUS420J2	1.4031	AISI420
③ ^R	Module Valve Seat	Stainless Steel SUS440C	1.4125	AISI440C
④ ^R	Disc	Stainless Steel SUS440C	1.4125	AISI440C
⑤	Eye Nut	Carbon Steel SS400	1.0037	A6
⑥	Spacer	Carbon Steel SS400	1.0037	A6
⑦ ^{MR}	Module Gasket	Graphite/Stainl. Stl. SUS309S+Cb	- /1.4833	- /AISI309S+Cb
⑧ ^{MR}	Module Gasket	Graphite/Stainl. Stl. SUS309S+Cb	- /1.4833	- /AISI309S+Cb
⑨ ^R	Screen inside/outside	Stainless Steel SUS430/304	1.4016/1.4301	AISI430/304
⑩	Cover Bolt	Alloy Steel SNB16	1.7711	A193 Gr.B16
⑪	Cover Nut	Alloy Steel SNB7	1.7225	A193 Gr.B7
⑫	Cap	Carbon Steel SPCC	1.0330	A109
⑬ ^R	Guide Pin	Stainless Steel SUS304	1.4301	AISI304
⑭	Nameplate***	Stainless Steel SUS304	1.4301	AISI304
⑮	Hexagon Nut	Carbon Steel SS400	1.0037	A6

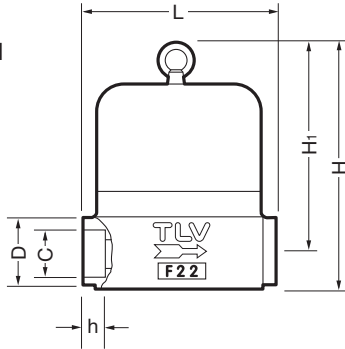


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* Equivalent materials ** Option *** Not shown
Replacement kits available: (M) maintenance parts, (R) repair parts

Dimensions

● **HR150A**
Socket Welded

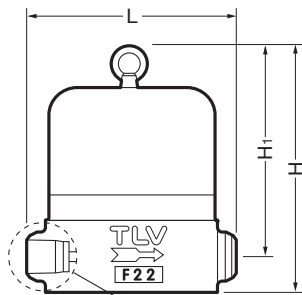


HR150A Socket Welded* (mm)

DN	L	H	H ₁	φD	φC	h	Weight (kg)
15	140	190	160	53.5	21.8	14	12
20					27.2		
25					33.9		

* ASME B16.11-2005, other standards available

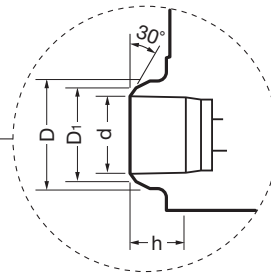
● **HR150A**
Butt Welded



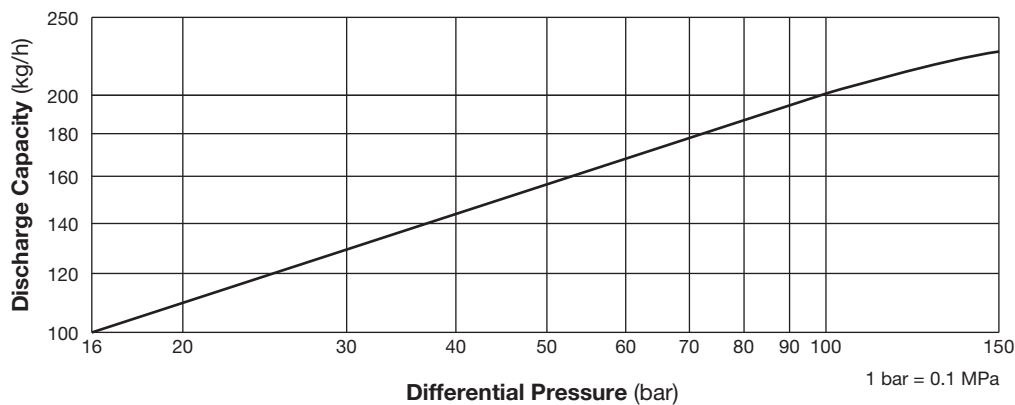
HR150A Butt Welded* (mm)

DN	L	H	H ₁	φD	φD ₁	φd	h	Weight (kg)
15	145	190	160	28	22	17	20	12
25				40	34	27		

* DIN 3239 Form C (PN 160), 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
TLV CO., LTD.
Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

