FLOATDYNAMIC® STEAM TRAP

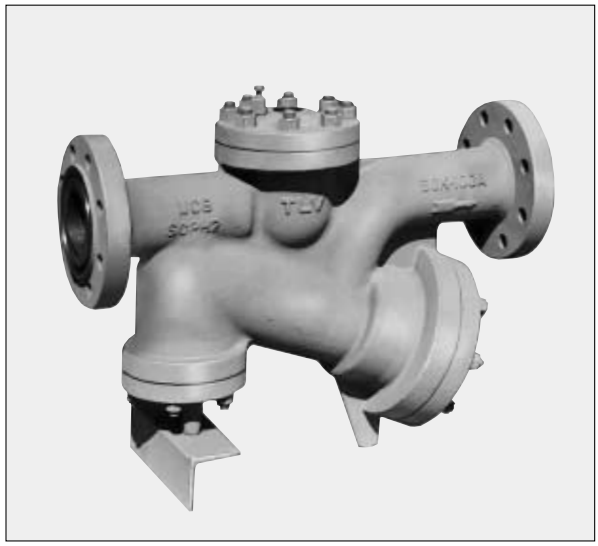
MODEL JH15 CAST STEEL

HIGH CAPACITY STEAM TRAP WITH FREE FLOAT PILOT MECHANISM

Features

High pressure, inline maintainable, steam trap with free float and piston combination for discharge of high condensate flow rates. Suitable for large process heat exchangers.

1. Self-modulating free float pilot mechanism ensures discharge at near-to-steam temperatures.
2. Proven piston valve allows “pulsing” discharge of condensate at high flow rates and intermittent discharge at low flow rates.
3. Steam chamber design prevents damage to the valve and valve seat on closure.
4. All internal parts are easily accessible without having to remove the trap from the line.
5. Two built-in screens with large surface area ensure trouble-free operation.

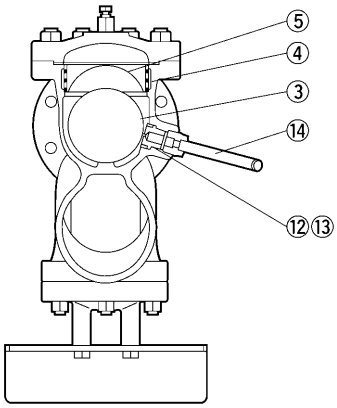


Specifications

Model	JH15E-21, JH15M-21, JH15S-21	JH15E-46, JH15M-46, JH15S-46
Connection	Flanged	
Size (DN)	DN 100	
Max. Operating Pressure (barg) PMO	21	46
Max. Differential Pressure (bar) ΔPMX	21	46
Min. Differential Pressure (bar)	0.5	
Max. Operating Temperature (°C) TMO	400	

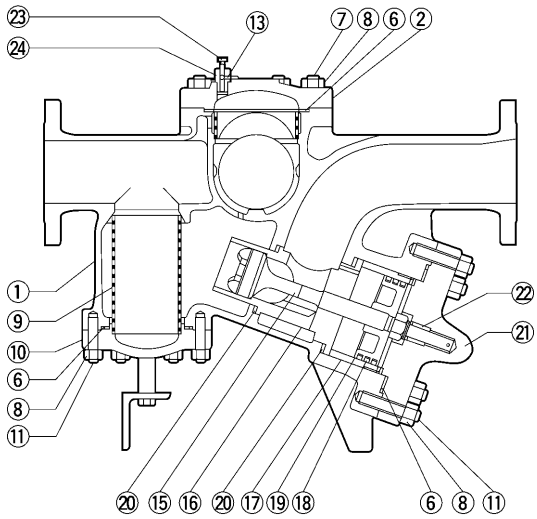
PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): 1 bar = 0.1 Mpa
Maximum Allowable Pressure (barg) PMA: 50
Maximum Allowable Temperature (°C) TMA: 400

⚠ 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.



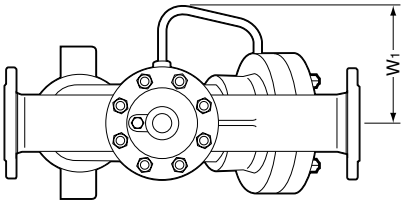
No.	Description	Material	DIN*	ASTM/AISI*
①	Body	Cast Steel A216 Gr.WCB	1.0619	—
②	Cover	Carbon Steel S25C	1.1158	AISI1025
③	Float	Stainless Steel SUS316L	1.4404	AISI316L
④	Screen	Stainless Steel SUS430	1.4016	AISI430
⑤	Float Cover	Stainless Steel SUS304	1.4301	AISI304
⑥	Gasket	Graphite/Stainl. Stl. SUS304	– /1.4301	– /AISI304
⑦	Cover Bolt	Alloy Steel SNB16	1.7711	A193 Gr.B16
⑧	Cover Nut	Carbon Steel S45C	1.0503	AISI1045
⑨	Screen, inner/outer	Stainless Steel SUS304/430	1.4301/1.4016	AISI304/430
⑩	Screen Cover	Cast Steel A216 Gr.WCB	1.0619	—
⑪	Cover Bolt	Alloy Steel SNB7	1.7225	A193 Gr.B7
⑫	Orifice	—	—	—
⑬	Gasket	Soft Iron SUYP	1.1121	AISI1010
⑭	Connector Pipe	Stainless Steel SUS304	1.4301	AISI304
⑮	Main Valve	—	—	—
⑯	Valve Seat	—	—	—
⑰	Cylinder	—	—	—
⑱	Piston Ring**	Stainless Steel SUS304	1.4301	AISI304
⑲	Piston	Stainless Steel SUS303	1.4305	AISI303
⑳	Cylinder Gasket	Graphite/Stainl. Stl. SUS304	– /1.4301	– /AISI304
㉑	Valve Cover	Cast Steel A216 Gr.WCB	1.0619	—
㉒	Sleeve	Stainless Steel SUS420F	1.4028	AISI420F
㉓	Air Valve	Stainless Steel SUS304	1.4301	AISI304
㉔	Air Valve Body	Stainless Steel SUS303	1.4305	AISI303

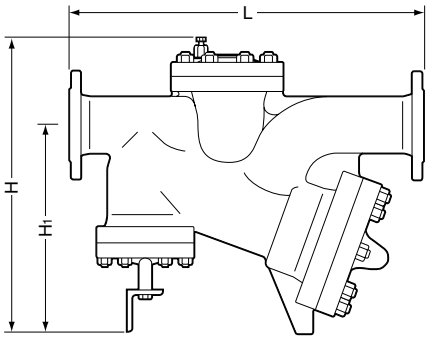
* Equivalent materials ** 1 piston ring on JH15-21, 3 on JH15-46



Dimensions

● **JH15** Flanged





JH15 Flanged (mm)

Model	DN	L DIN 2501 PN25/40	L DIN 2501 PN63	L DIN 2501 PN100	H	H1	W1	Weight* (kg)
JH15-21	100	750	–	–	635	440	250	171 (182)
JH15-46			762	774				

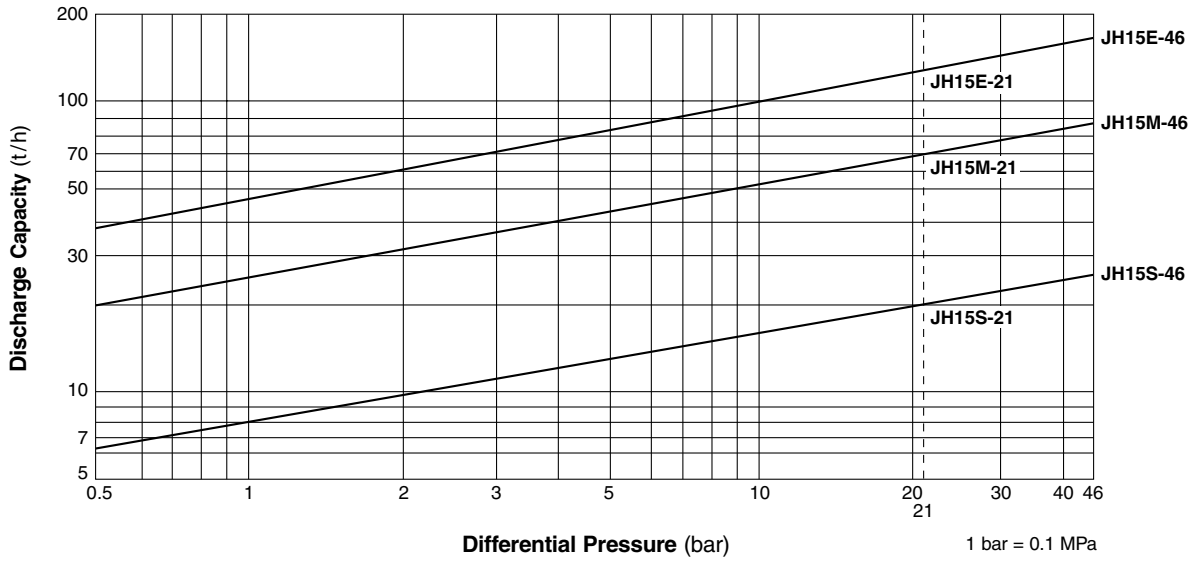
Other standards available, but length and weight may vary
* Weight is for DIN PN 25/40, (PN 100)

JH15 Flanged (mm)

Model	Size	L ASME Class 150RF	L ASME Class 300RF	L ASME Class 600RF	H	H1	W1	Weight* (kg)
JH15-21	100	750	766	–	635	440	250	176 (195)
JH15-46		–		792				

Other standards available, but length and weight may vary
* Weight is for Class 300 RF (600 RF)

Discharge Capacity



1. Differential pressure is the difference between the inlet and outlet pressure of the trap.
2. Capacities are based on continuous discharge of condensate 6 °C below saturated steam temperature.
3. Select the closest model with a capacity greater than the actual condensate load multiplied by a safety factor of 1.2.

⚠CAUTION DO NOT use traps under conditions that exceed maximum differential pressure, as condensate backup will occur!

Manufacturer
TLV CO., LTD.
Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001/ISO 14001