



FLOATDYNAMIC® STEAM TRAP

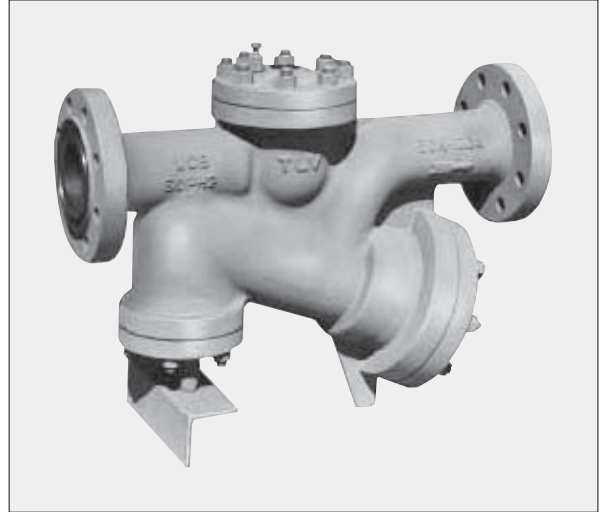
MODEL JH15 CAST STEEL

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*/425	

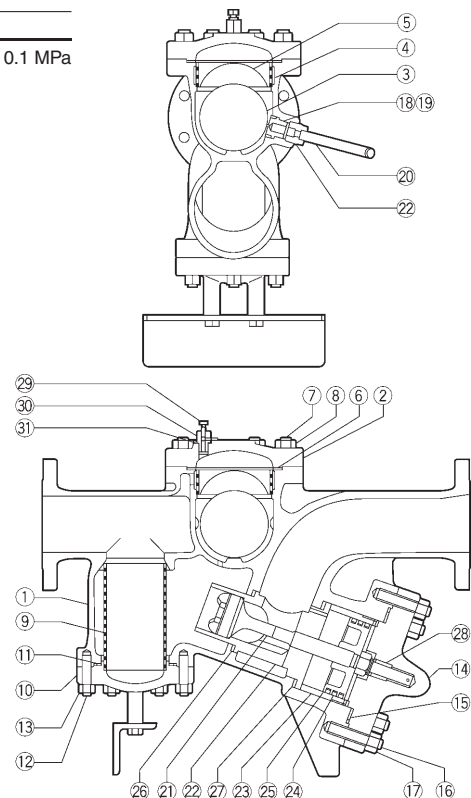


To avoid abnormal operation, accidents or serious injury, do not use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): 1 bar = 0.1 MPa
 Maximum Allowable Pressure (barg) PMA: 50
 Maximum Allowable Temperature (°C) TMA: 400*/425
 * With PN Flange

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	Float Screen	Stainless Steel SUS430	1.4016	AISI430
⑤	Float Cover	Stainless Steel SUS304	1.4301	AISI304
⑥	Cover Gasket	Graphite/Stainless Steel 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	Main Valve Screen inside/outside	Stainless Steel SUS304/430	1.4301/1.4016	AISI304/430
⑩	Screen Cover	Cast Steel A216 Gr.WCB	1.0619	—
⑪	Screen Cover Gasket	Graphite/Stainless Steel SUS304	-/1.4301	-/AISI304
⑫	Screen Cover Bolt	Alloy Steel SNB7	1.7225	A193 Gr.B7
⑬	Screen Cover Nut	Carbon Steel S45C	1.0503	AISI1045
⑭	Valve Cover	Cast Steel A216 Gr.WCB	1.0619	—
⑮	Valve Cover Gasket	Graphite/Stainless Steel SUS304	-/1.4301	-/AISI304
⑯	Valve Cover Bolt	Alloy Steel SNB7	1.7225	A193 Gr.B7
⑰	Valve Cover Nut	Carbon Steel S45C	1.0503	AISI1045
⑱	Orifice	—	—	—
⑲	Orifice Gasket	Soft Iron SUYP	1.1121	AISH1010
⑳	Connector Pipe	Stainless Steel SUS304	1.4301	AISI304
㉑	Main Valve	—	—	—
㉒	Valve Seat	—	—	—
㉓	Cylinder	—	—	—
㉔	Piston Ring Set**	Carbon/Stainless Steel SUS304	-/1.4301	-/AISI304
㉕	Piston	Stainless Steel SUS303	1.4305	AISI303
㉖	Small Valve Seat Gasket	Graphite/Stainless Steel SUS304	-/1.4301	-/AISI304
㉗	Large Valve Seat Gasket	Graphite/Stainless Steel SUS304	-/1.4301	-/AISI304
㉘	Sleeve	Stainless Steel SUS420F	1.4028	AISI420F
㉙	Air Vent Valve Stem	Stainless Steel SUS304	1.4301	AISI304
㉚	Air Vent Valve Body	Stainless Steel SUS303	1.4305	AISI303
㉛	Air Vent Valve Gasket	Soft Iron SUYP	1.1121	AISH1010

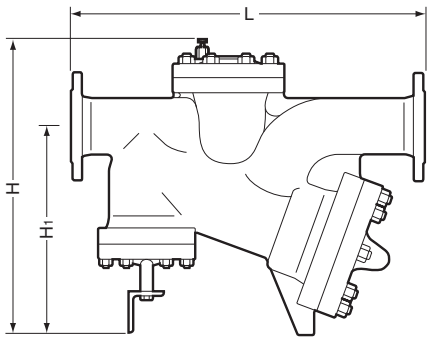
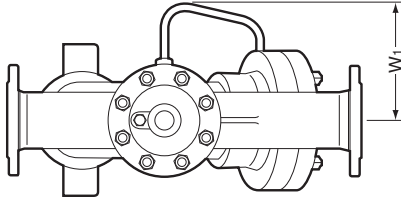
* Equivalent materials ** 1 piston ring on JH15-21, 3 on JH15-46



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Dimensions

● **JH15 Flanged**



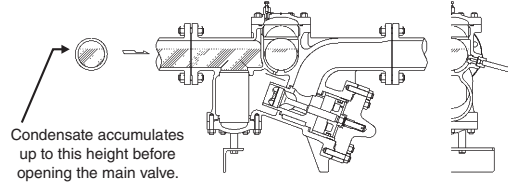
JH15 Flanged (mm)

Model	DN	L				H	H ₁	W ₁	Weight* (kg)
		DIN 2501		ASME Class					
		PN25/40	PN63	PN100	150RF				
JH15-21	100	750	—	—	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)

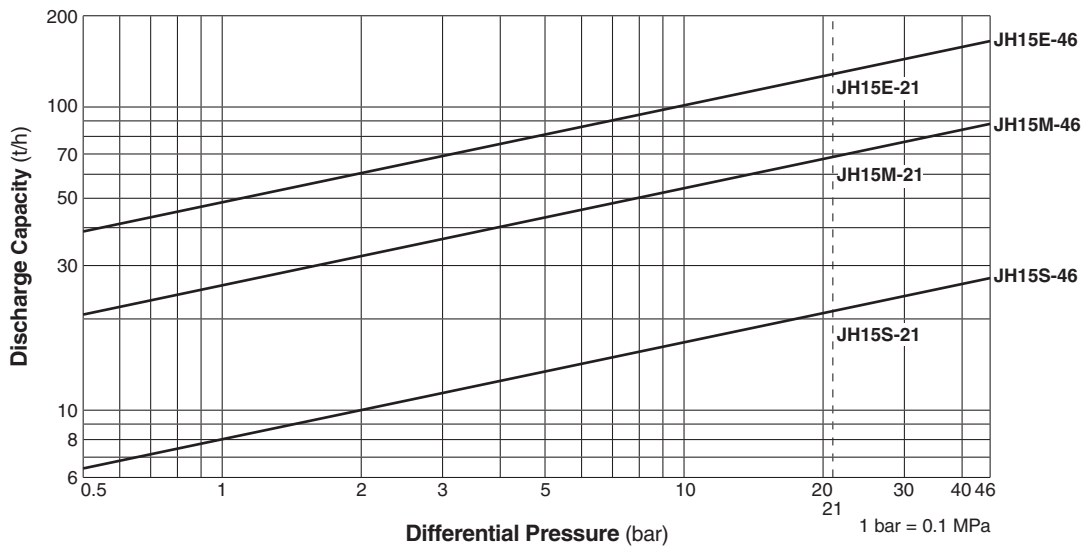
Note: Piping Arrangement

The horizontal length of both sides, inlet and outlet, should be as long as possible (5 m or more), with as few bends as possible.



The inlet pipe operates as part of the main body for JH15. If the inlet pipe is longer, then more condensate can be discharged with each operation cycle. If more condensate is discharged with each cycle, fewer cycles are required to discharge the condensate, reducing wear and extending service life. Furthermore, due to the force of discharged condensate, the straight horizontal run of the outlet piping should be as long as possible to minimize vibration (shock) to the secondary side piping, etc. Consult with TLV in case of difficulties with piping arrangement.

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.



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

Manufacturer

ISO 9001/ISO 14001

TLV CO., LTD.
Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

