FLOATDYNAMIC® STEAM TRAP

MODEL JH15 CAST STEEL

HIGH CAPACITY CAST STEEL STEAM TRAP WITH FREE FLOAT PILOT MECHANISM

Features

TLV

High pressure, cast steel, 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.
- Proven piston valve allows "pulsing" discharge of condensate at high flow rates and intermittent discharge at low flow rates. 2. Steam chamber design prevents damage to the valve and З.
- 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 troublefree operation.

Pressure Equipment Directive (PED)

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

Size Category CE marking with CE marking and Declaration of DN 100

ш Conformity

Specifications

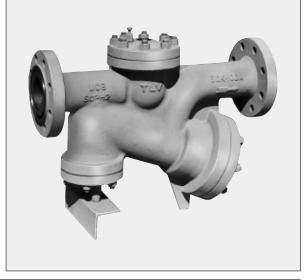
Model	JH15E-21, JH15M-21, JH15S-21	JH15E-46, JH15M-46, JH15S-46		
Connection	Flar	nged		
Size (DN)	DN	100		
Max. Operating Pressure (barg) PMO	21	46		
Max. Differential Pressure (bar) ΔPMX	21	46		
Min. Differential Pressure (bar)	0	.5		
Max. Operating Temperature (°C) TMO	400*	*/425		

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): 1 bar = 0.1 MPaMaximum Allowable Pressure (barg) PMA: 50

Maximum Allowable Temperature (°C) TMA: 400*/425

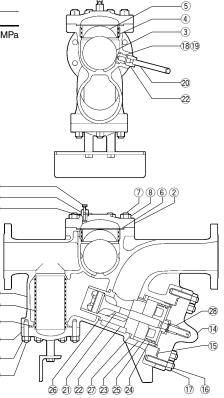
* With PN Flange

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	
1	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	-	
1	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	AISI1010	
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	AISI1010	



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.



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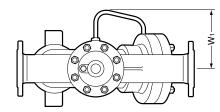
* Equivalent materials ** 1 piston ring on JH15-21, 3 on JH15-46

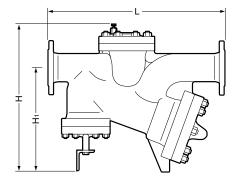
TLV.

Consulting·Engineering·Services

Dimensions

• JH15 Flanged



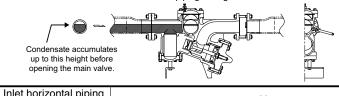


JH15 Flanged (mm)											
Model DN		L DIN 2501			ASME Class			Н	Hı	W1	Weight*
		PN25/40	PN63	PN100	150RF	300RF	600RF				(kg)
JH15-21 1	100	750	—	—	750	766	—	635	440	250	171
JH15-46	100	750	762	774	-	700	792	035	440	250	(182)

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

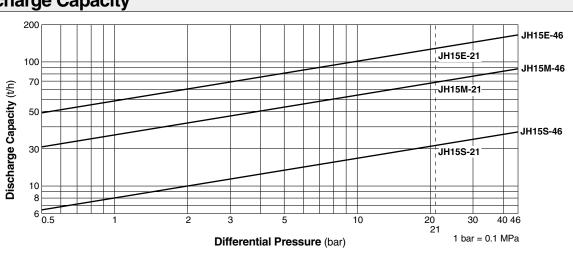
Note: Piping Arrangement

- The horizontal piping sections should be sized according to the condensate load and velocity, without sharp bends, and using eccentric reducers for pipe size adjustment.
- A check valve must be installed on the outlet side.
- Install air bleed line and valve, and discharge safely to grade.
 Consult with TLV in case of difficulties with piping arrangement



iniet nonzontal piping	Outlet piping**				
Length (m) Size (mm)	Outlet piping				
1.0* 300*	Size the horizontal and vertical piping sections				
1.25 250	according to the condensate load and velocity. Use the TLV Engineering Calculator or ToolBox				
1.5 200	app, "Condensate Recovery Pipe Sizing for				
2.5 150	Condensate Recovery Line by Velocity" function.				
3.5 125	Recommended fluid velocities: • Flash steam: approx. 30 to 35 m/s				
5.0 100	 Condensate component: ≤ 2 m/s 				
* Recommended by TLV	** Schedule 160 piping recommended				

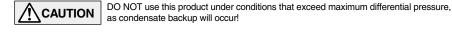
Discharge Capacity



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.

Select the closest model with a capacity greater than the actual condensate load multiplied by a safety factor of 1.2.



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



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https://www.tlv.com

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Specifications subject to change without notice.