

FLOATDYNAMIC® STEAM TRAP

MODEL JH15 CAST STEEL

1 bar = 0.1 MPa

HIGH CAPACITY CAST STEEL STEAM TRAP WITH FREE FLOAT PILOT MECHANISM

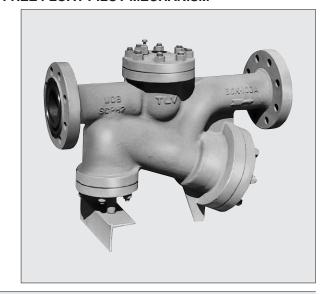
Features

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

- 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.
- Steam chamber design prevents damage to the valve and valve seat on closure.
- All internal parts are easily accessible without having to remove the trap from the line.
- Two built-in screens with large surface area ensure trouble-

Pressure Equipment Directive (PED)

Classification according to PED 2014/68/EU, fluid group 2				
Size	Category	CE marking		
DN 100	II	with CE marking and Declaration of 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): Maximum Allowable Pressure (barg) PMA: 50
Maximum Allowable Temperature (°C) TMA: 400*/425

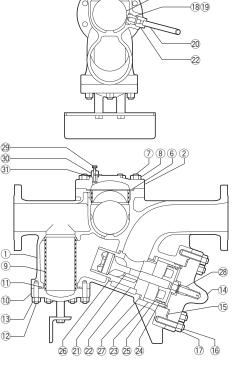
* With PN Flange

No.	Description	Material	DIN*	ASTM/AISI*
1	Body	Cast Steel A216/A216M 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/A193M Gr.B16
8	Cover Nut	Carbon Steel S45C	1.0503	AISI1045
9	Main Valve Screen,	Stainless Steel SUS304/430	1.4301/1.4016	AISI304/430
10	inside/outside	Cast Steel A216/A216M Gr.WCB	1.0619	_
11)	Screen Cover	Graphite/Stainless Steel SUS304	-/1.4301	-/AISI304
(12)	Screen Cover Gasket	Alloy Steel SNB7	1.7225	A193/A193M Gr.B7
13	Screen Cover Bolt	Carbon Steel S45C	1.0503	AISI1045
(14)	Screen Cover Nut	Cast Steel A216/A216M Gr.WCB	1.0619	_
(15)	Valve Cover	Graphite/Stainless Steel SUS304	-/1.4301	-/AISI304
16	Valve Cover Gasket	Alloy Steel SNB7	1.7225	A193/A193M Gr.B7
17)	Valve Cover Bolt	Carbon Steel S45C	1.0503	AISI1045
18	Valve Cover Nut	_	_	_
19	Orifice	Soft Iron SUYP	1.1121	AISI1010
20	Orifice Gasket	Stainless Steel SUS304	1.4301	AISI304
21)	Connector Pipe	_	_	_
22	Main Valve	_	_	_
23	Valve Seat	_	_	_
24)	Cylinder	Carbon/Stainless Steel SUS304	-/1.4301	-/AISI304
25)	Piston Ring Set**	Stainless Steel SUS303	1.4305	AISI303
26	Piston	Graphite/Stainless Steel SUS304	-/1.4301	-/AISI304
27)	Small Valve Seat Gasket	Graphite/Stainless Steel SUS304	-/1.4301	-/AISI304
28	Large Valve Seat Gasket	Stainless Steel SUS420F	1.4028	AISI420F
29	Sleeve	Stainless Steel	_	_
30	Air Vent Valve Stem	Stainless Steel SUS303	1.4305	AISI303
(31)	Air Vent Valve Body	Soft Iron SUYP	1.1121	AISI1010



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.

(4) (3)



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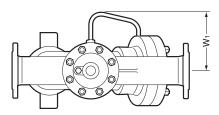
^{*} Equivalent materials ** 1 piston ring on JH15-21, 3 on JH15-46

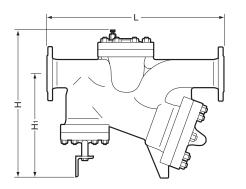


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Dimensions

JH15 Flanged





JH15 Flanged

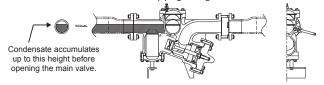
(mm)

			L					Н	Нı	W ₁	Weight*	
	Model DN		DIN 2501		ASME Class							
			PN25/40	PN63	PN100	150RF	300RF	600RF				(kg)
_	JH15-21	100	750	_	_	750	766		635	440	250	171
	JH15-46	100	750	762	774	_	700	792	000	440	250	(182)

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

Note: Piping Arrangement

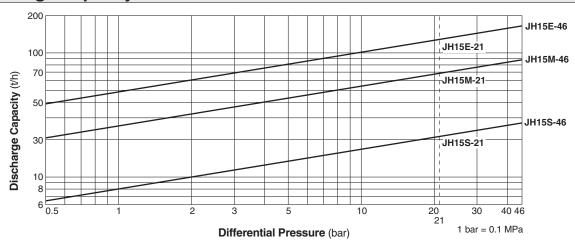
- The horizontal piping sections should be sized according to the condensate load and velocity, without sharp bends, and using eccentric reducers for pipe size adjustment.
- A check valve must be installed on the outlet side.
- Install air bleed line and valve, and discharge safely to grade.
 Consult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



Inlet horizontal 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.



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

Manufacturer

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

