



FREE FLOAT STEAM TRAP

MODEL JH5

HIGH PRESSURE FREE FLOAT STEAM TRAP WITH AIR VENT VALVE

Features

A reliable and durable cast steel free float steam trap with tight shut-off for use on steam mains and medium-size process equipment.

1. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
2. Constant water-seal design ensures steam-tight seal, even under low-load conditions.
3. Only one moving part, the free float, eliminates concentrated valve wear and provides long maintenance-free service life.
4. Easy-to-use air vent valve facilitates rapid start-up.
5. Inline access to internal parts simplifies cleaning and reduces maintenance costs.
6. Built-in screen with large surface area ensures trouble-free operation.



Specifications

Model	JHS5	JHW5	JH5
Connection	Screwed	Socket Welded	Flanged
Size (mm)	15, 20, 25		
Orifice No.	1, 2, 5, 10, 14, 22, 32, 40, 46		
Maximum Operating Pressure (MPaG) PMO	0.1, 0.2, 0.5, 1, 1.4, 2.2, 3.2, 4, 4.6		
Maximum Differential Pressure (MPa) ΔPMX	0.1, 0.2, 0.5, 1, 1.4, 2.2, 3.2, 4, 4.6		
Maximum Operating Temperature (°C)	425		

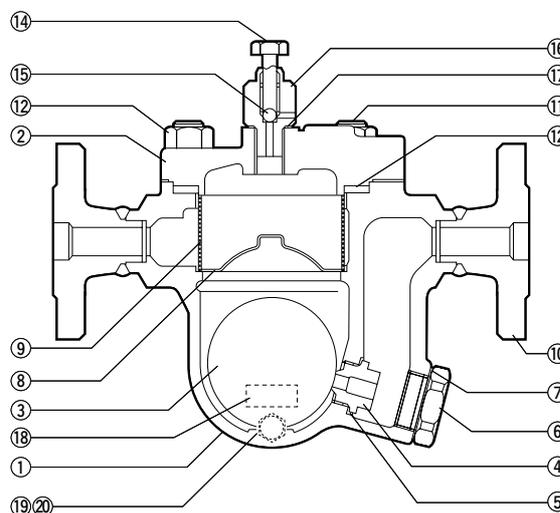
1 MPa = 10.197 kg/cm²

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 4.6
Maximum Allowable Temperature (°C) TMA: 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.

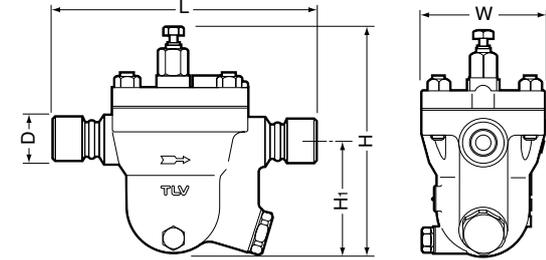
No.	Description	Material	JIS	ASTM/AISI*
①	Body	Cast Steel	SCPH2	A216 Gr. WCB
②	Cover	Forged Steel	—	A105
③	Float	Stainless Steel	SUS316L	AISI316L
④	Orifice	Stainless Steel	SUS420F	AISI420F
⑤	Orifice Gasket	Soft Iron	SUYP	AISI1010
⑥	Plug	Stainless Steel	SCS2A	A217 Gr. CA15
⑦	Plug Gasket	Soft Iron	SUYP	AISI1010
⑧	Float Cover	Stainless Steel	SUS304	AISI304
⑨	Screen	Stainless Steel	SUS430	AISI430
⑩	Flange (JH5)	Carbon Steel**	—	A105/216 Gr. WCB
⑩	Socket (20, 25)***	Carbon Steel	S25C	AISI1025
⑪	Cover Bolt	Carbon Steel	SNB16	A193 Gr. B16
⑫	Cover Nut	Carbon Steel	S45C	AISI1045
⑬	Cover Gasket	Stainl. Steel/Graphite	SUS304	AISI304
⑭	Air Vent Valve	Stainless Steel	SUS304	AISI304
⑮	Steel Ball	Stainless Steel	SUS440C	AISI440C
⑯	Air Vent Valve Body	Stainless Steel	SUS303	AISI303
⑰	Air Vent Valve Gasket	Soft Iron	SUYP	AISI1010
⑱	Nameplate	Stainless Steel	SUS304	AISI304
⑲	Drain Plug Gasket	Soft Iron	SUYP	AISI1010
⑳	Drain Plug	Carbon Steel	S25C	AISI1025



* Equivalent ** Either A105 or A216 Gr. WCB, depending upon flange specifications
*** Shown on reverse

Dimensions

● JHS5 Screwed

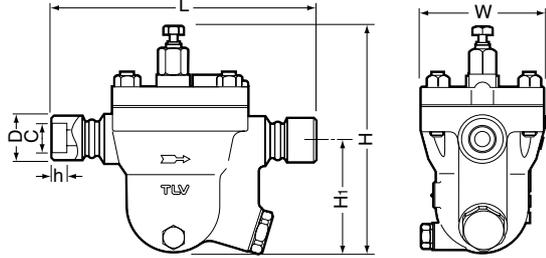


JHS5 Screwed* (mm)

Size	L	H	H ₁	W	φD	Weight (kg)
15	250	212	106	115	34	9
20					40	9.2
25					49	9.3

* PT, other standards available

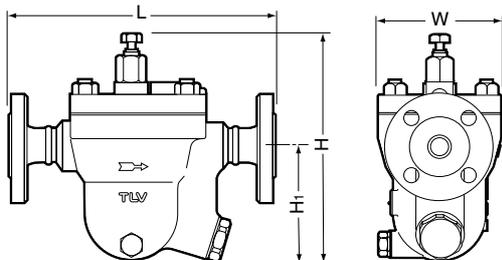
● JHW5 Socket Welded



JHW5 Socket Welded (mm)

Size	φD	φC	h	L	H	H ₁	W	Weight (kg)
15	34	22.2	12	250	212	106	115	9
20	40	27.7	14					9.2
25	49	34.5	14					9.3

● JH5 Flanged

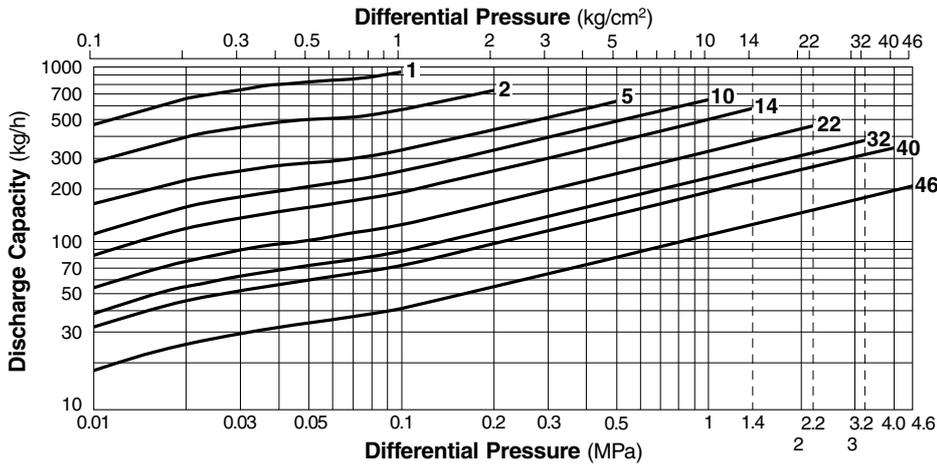


JH5 Flanged* (mm)

Size	L	H	H ₁	W	Weight (kg)
15	250	212	106	115	9
20					9.5
25					11

* JIS 40K RF, other standards available

Discharge Capacity



1. Line numbers within the graph refer to orifice numbers.
2. Differential pressure is the difference between the inlet and outlet pressure of the trap.
3. Capacities are based on continuous discharge of condensate 6 °C below saturated steam temperature.
4. Recommended safety factor: at least 1.5.



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

