



FREE FLOAT STEAM TRAP

MODEL JH5X

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

A reliable and durable cast steel free float steam trap with tight shut-off for use on steam mains and small to 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. Thermostatic capsule with "fail open" feature vents air automatically until close-to-steam temperature, for rapid start-up, increased productivity and even heating.
5. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.
6. Built-in screen with large surface area ensures trouble-free operation.



Specifications

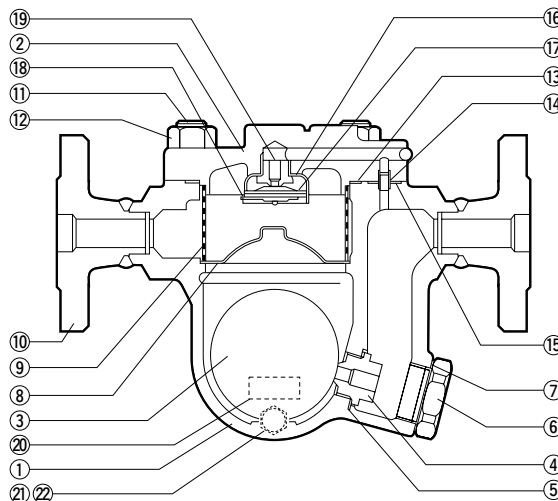
Model	JHS5X	JHW5X	JH5X
Connection	Screwed	Socket Weld	Flanged
Size (mm)	15, 20, 25		
Orifice No.	2, 5, 10, 14, 22, 32		
Maximum Operating Pressure (MPaG) PMO	0.2, 0.5, 1.0, 1.4, 2.2, 3.2		
Maximum Differential Pressure (MPa) ΔPMX	0.2, 0.5, 1.0, 1.4, 2.2, 3.2		
Minimum Operating Pressure (MPaG)	0.01		
Maximum Operating Temperature (°C) TMO	240		
Subcooling of X-element Fill (°C)	up to 6		
Type of X-element	B		

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 4.0 1 MPa = 10.197 kg/cm²
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	—	A216 Gr. WCB
②	Cover	Carbon Steel	—	A105
③ ^F	Float	Stainless Steel	SUS316L	AISI316L
④ ^R	Orifice	Stainless Steel	SUS420F	AISI420F
⑤ ^{MR}	Orifice Gasket	Soft Iron	SUYP	AISH1010
⑥	Orifice Plug	Cast Stainless Steel	SCS2A	A217 Gr. CA15
⑦ ^{MR}	Orifice Plug Gasket	Soft Iron	SUYP	AISH1010
⑧ ^R	Float Cover	Stainless Steel	SUS304	AISI304
⑨ ^R	Screen outside/inside	Stainless Steel	SUS304/430	AISI304/430
⑩	Flange	Carbon/Cast Steel**	—	A105/A216 Gr. WCB
⑩	Socket (not shown)	Carbon Steel	S25C	AISH1025
⑪	Cover Bolt	Alloy Steel	SNB7	A193 Gr. B7
⑫	Cover Nut	Carbon Steel	S45C	AISH1045
⑬ ^{MR}	Cover Gasket	Stainless Steel/Graphite	SUS316L	AISI316L
⑭	Connector	Stainless Steel	SUS416	AISI416
⑮ ^{MR}	Connector Gasket	Stainless Steel/Graphite	SUS316L	AISI316L
⑯ ^R	X-element Guide	Stainless Steel	SUS304	AISI304
⑰ ^R	X-element	Stainless Steel	—	—
⑱ ^R	Spring Clip	Stainless Steel	SUS304	AISI304
⑲ ^R	Air Vent Valve Seat	Stainless Steel	SUS420F	AISI420F
⑳	Nameplate	Stainless Steel	SUS304	AISI304
㉑	Drain Plug Gasket	Soft Iron	SUYP	AISH1010
㉒	Drain Plug	Carbon Steel	S25C	AISH1025

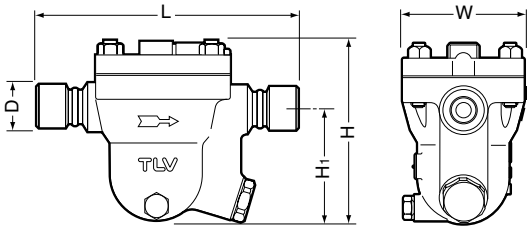


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* Equivalent ** Either A105 or A216 Gr. WCB, depending upon flange specifications
Replacement Kits available: (M) maintenance parts, (R) repair parts, (F) float

Dimensions

● **JHS5X** Screwed

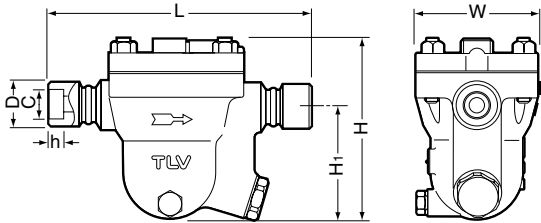


JHS5X Screwed* (mm)

Size	L	H	H ₁	W	φD	Weight (kg)
15	250	165	106	115	34	9
20					40	9.2
25					49	9.3

* PT, other standards available

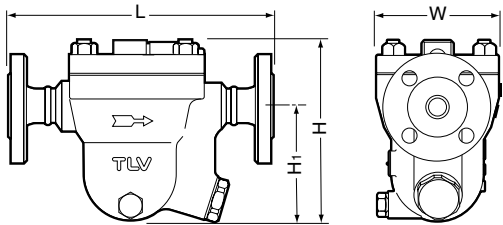
● **JHW5X** Socket Welded



JHW5 Socket Welded (mm)

Size	φD	φC	h	L	H	H ₁	W	Weight (kg)
15	34	21.7	12	250	165	106	115	9
20	40	27.05	14					9.2
25	49	33.8	14					9.3

● **JH5X** Flanged

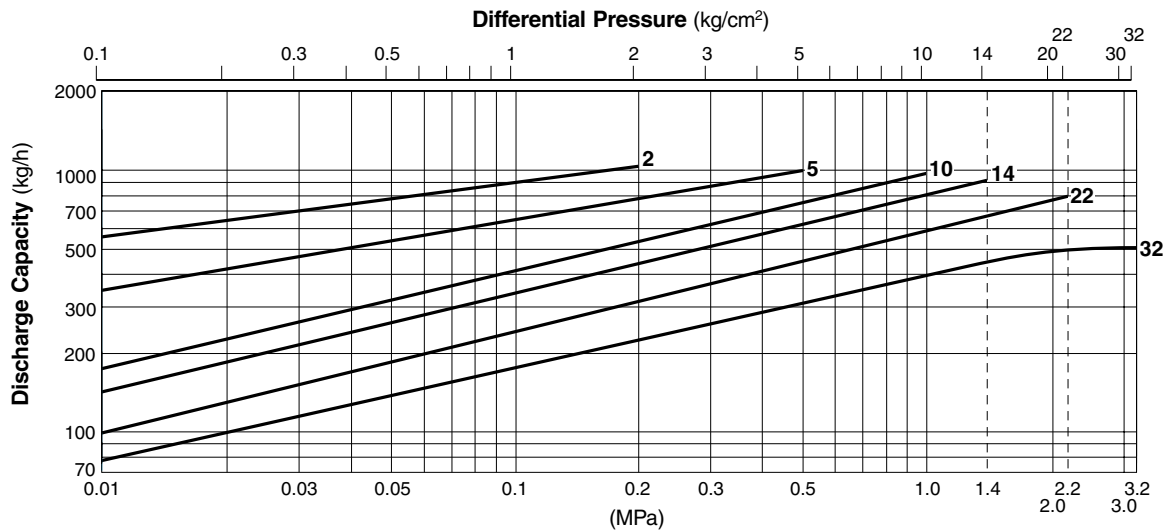


JH5X Flanged* (mm)

Size	L	H	H ₁	W	Weight (kg)
15	250	165	106	115	11
20					12
25					12

* JIS40K 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

