

FREE FLOAT STEAM TRAP

MODEL JH7X

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 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.
- Only one moving part, the free float, eliminates concentrated valve wear and provides long maintenance-free service life.
- Thermostatic capsule with "fail open" feature vents air automatically until close-to-steam temperature, for rapid start-up.
- 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		JHS7X	JHW7X JH7			
Connection		Screwed Socket Welded Flanged				
Size (mm)		20, 25, 40				
Orifice No.		1 , 2 , 5 , 10, 14 , 22 , 32				
Maximum Operating Pressure (MPaG)	PMO	0.1, 0.2, 0.5, 1, 1.4, 2.2, 3.2				
Maximum Differential Pressure (MPa)	ΔΡΜΧ	0.1, 0.2, 0.5, 1, 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		В				

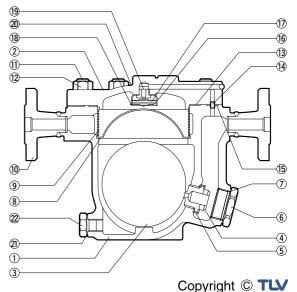
1 MPa = 10.197 kg/cm²

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 4 Maximum Allowable Temperature (°C) TMA: 425

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.

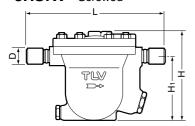
No.	Description	Material	JIS	ASTM/AISI*
1	Body	Cast Steel	SCPH2	A216 Gr. WCB
2	Cover	Forged Steel	_	A105
3	Float	Stainless Steel	SUS316L	AISI316L
4	Orifice	Stainless Steel	SUS420F	AISI420F
(5)	Orifice Gasket	Soft Iron	SUYP	AISI1010
6	Plug	Stainless Steel	SCS13A	A351 Gr. CF8
7	Plug Gasket	Soft Iron	SUYP	AISI1010
8	Screen Holder	Stainless Steel	SUS304	AISI304
9	Screen outside/inside	Stainless Steel	SUS304/430	AISI304/430
	Flange (JH7X)	Forged Steel**	_	A105/216 Gr. WCB
10	Socket (20, 25)***	Carbon Steel	S25C	AISI1025
	Socket (40)***	Carbon Steel	_	A105
11)	Cover Bolt	Carbon Steel	SNB7	A193 Gr. B7
12	Cover Nut	Carbon Steel	S45C	AISI1045
13	Cover Gasket	Stainl. Stl./Graphite	SUS316L	AISI316L
14)	Connector	Stainless Steel	SUS416	AISI416
15	Connector Gasket	Stainl. Stl./Graphite	SUS316L	AISI316L
16	X-element Guide	Stainless Steel	SUS304	AISI304
17)	X-element	Stainless Steel	_	_
18	Spring Clip	Stainless Steel	SUS304	AISI304
19	Air Vent Valve Seat	Stainless Steel	SUS420F	AISI420F
20	Drain Plug	Carbon Steel	S25C	AISI1025
21)	Drain Plug Gasket	Soft Iron	SUYP	AISI1010

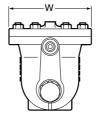


Consulting & Engineering Service

Dimensions

● JHS7X Screwed

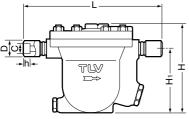


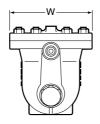


JHS7X Screwed* (mm						
Size	L	Н	H ₁	φW	φD	Weight (kg)
20	350				40	- 21
25		227	161	206	49	
40	336				66	23

* PT, other standards available

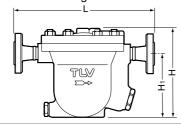
JHW7X Socket Welded

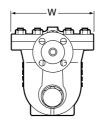




JHW	7X	Socke	t We	lded				(mm)
Size	φD	φC	h	L	Н	H ₁	φW	Weight (kg)
20	40	27.7	14	250				
25	49	34.5		350	227	161	206	21
40	66	49.1		336				23

● JH7X Flanged



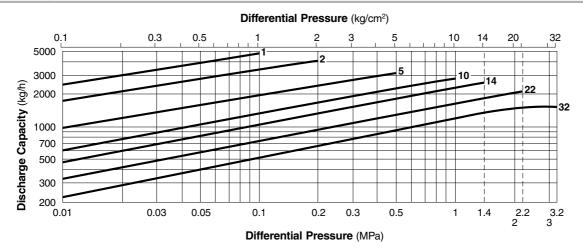


<u>JH7X</u>	Flange	ed*			(mm	ı
Size	L	Н	H ₁	φW	Weight (kg)	
20	350				23	
25		227	161	206	24	

* JIS 40K RF, other standards available

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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

Kakogawa, Japan





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is approved by LRQA Ltd. to ISO 9001/14001