

FREE FLOAT STEAM TRAP

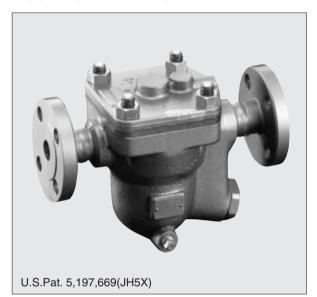
MODEL JH5X/JH5

CAST STEEL FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Benefits

Extremely durable, inline-repairable free float trap with tight shut-off for drainage of steam mains and small to medium-size process heaters.

- 1. Self-modulating free float provides soft and continuous, low velocity discharge as process loads vary, for maximum production performance.
- Unique rotational seating desing eliminates concentrated wear to provide long maintenance-free service life.
- 3. JH5X: durable thermostatic unit automatically vents air for exceptional start-up and performance.
- 4. Easy, inline access to internal parts simplifies cleaning and lowers maintenance costs.
- Rugged float construction with up to 1570 psig hydraulic shock rating ensures excellent resistance to water hammer.
- 6. Built-in screen with large surface area ensures extended trouble-free service.



Specifications

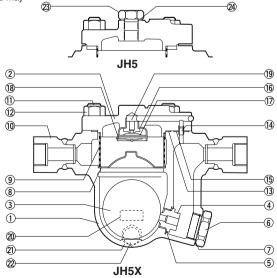
Model		JHS5X	JHW5X	JH5X	JHS5	JHW5	JH5
Connection	Screwed	Socket Weld	Flanged	Screwed	Socket Weld	Flanged	
Size (in)		3/2	ı, 1	³ / ₄ , 1	³ / ₄ , 1		_
Orifice No.		2, 5, 10, 22, 32					
Maximum Operating Pressure (psig) P	OM	30, 75, 150, 315, 450		600			
Maximum Differential Pressure (psi) ΔF	PMX	30,	75, 150, 315,	450	600		
Minimum Operating Pressure		Vacuum					
Maximum Operating Temperature (°F) T	MO	464		800			
Maximum Allowable Pressure (psig) F	PMA	600			650		
Maximum Allowable Temperature (°F)	ГМА		800		800		

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.

	restrict the use of this product to below the conditions quot						
No.	Description	Material ASTM/AISI*		JIS			
1	Body	Cast Steel A216 Gr. WCB		SCPH2			
2	Cover	Carbon Steel	A105	_			
(3)F	Float	Stainless Steel	AISI316L	SUS316L			
(4)R	Orifice	Stainless Steel	AISI420F	SUS420F			
(5)MR	Orifice Gasket	Soft Iron	AISI1010	SUYP			
6	Orifice Plug	Cast Stainless Steel	A217 Gr. CA15	SCS2A			
7 ^{MR}	Orifice Plug Gasket	Soft Iron	AISI1010	SUYP			
(8)R	Float Cover	Stainless Steel	AISI304	SUS304			
(9)R	Screen	Stainless Steel	AISI430	SUS430			
	Flange (not shown)	Carbon/Cast Steel**	A105/216 Gr. WCB	-			
10	Socket (JHW5X)	Cast Steel	A216 Gr. WCB	_			
	Socket (JHW5)	Carbon Steel	AISI1025	S25C			
11)	Cover Bolt	Alloy Steel	A193 Gr. B7	SNB7			
12	Cover Nut	Carbon Steel	AISI1045	S45C			
Cover G	Cover Gasket (JH5X)	Stainl. Steel/Graphite	AISI316L	SUS316L			
(13)	Cover Gasket (JH5)	Stainl. Steel/Graphite	AISI304	SUS304			
14)	Connector	Stainless Steel	AISI416	SUS416			
(15) ^{MR}	Connector Gasket	Stainl. Steel/Graphite	AISI316L	SUS316L			
16)R	X-element Guide	Stainless Steel	AISI304	SUS304			
(17) ^R	X-element	Stainless Steel	-	-			
(18) ^R	Spring Clip	Stainless Steel	AISI304	SUS304			
19 ^R	Air Vent Valve Seat	Stainless Steel	AISI420F	SUS420F			
20	Nameplate	Stainless Steel	AISI304	SUS304			
21)	Drain Plug	Carbon Steel	AISI1025	S25C			
22 ^{MR}	Drain Plug Gasket	Soft Iron	AISI1010	SUYP			
23	Plug	Carbon Steel	AISI1025	S25C			
24) ^{MR}	Plug Gasket	Soft Iron	AISI1010	SUYP			

Connections and sizes in bold are standard



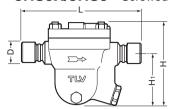
Parts 14-19 for JH5X only, parts 23-24 for optional air vent kit on JH5 only Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float



Consulting & Engineering Service

Dimentions

JHS5X/JHS5 Screwed

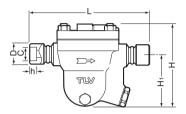




JHS5X/JHS5 Screwed* Size Н Η1 W Weight (lb) 3/4 61/2 913/16 43/16 4 1/2 20 (9¹⁵/₁₆) 1

* NPT, other standards available (): JHS5

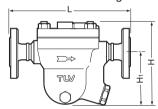
● JHW5X/JHW5 Socket Weld

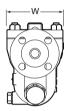




JHW5X/JHW5			Socket Weld					(in)
Size	L	Н	H ₁	W	φD	φ C	h	Weight (lb)
³ / ₄	913/16	6½ (6½	43/16	41/2	1 ⁵ / ₁₆	7/8 1 ½16	1/ ₂ 9/ ₁₆	20
(): JHW5	5	(* 7.0)			1 / 16	1 / 16	716	

● JH5X/JH5 Flanged





JHS5X/JHS5 Flanged (in) Weight* Size **ASME Class** Н H₁ W (lb) 150RF 300RF 600RF 3/4 21 61/2 913/16 913/16

(6¹⁵/₁₆)

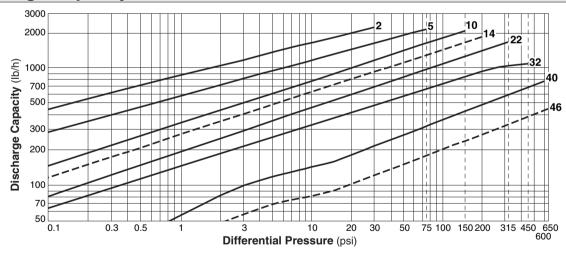
43/16

24

Other standards available, but length and weight may vary (): JH5

* Weight is for class 600 RF

Discharge Capacity



- Standard ---- Available on special request
- 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 11°F below saturated steam temperature.
- 4. Recommended safety factor: at least 1.5.

Capacities for orifice #2-32 apply only to JH5X; capacities #40-46 apply only to JH5.

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

TLV: CORPORAT

13901 South Lakes Drive, Charlotte, NC 28273-6790 Phone: 704-597-9070 Fax: 704-583-1610

E-mail: tlv@tlvengineering.com For Technical Service 1-800 "TLV TRAP"



Manufacturer

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



