

FREE FLOAT STEAM TRAP

MODEL JH3X/JH3B

CAST STEEL FREE FLOAT AND THERMOSTATIC STEAM TRAPS WITH THREE-POINT SEATING

Benefits

Inline repairable traps with tight shut-off for drainage of superheated high pressure mains and turbines.

- 1. Constant water seal and unique three-point seating ensure perfect steam-tight seal, even under no-load conditions.
- 2. Easy, inline access to internals to simplify cleaning and lower maintenance costs.
- 3. Up to 1740 psig hydraulic shock rating ensures excellent resistance of the float to water hammer.
- 4. Durable air vent provides exceptional performance.
- 5. Extremely soft near-to-steam, temperature discharge for safety and environmental considerations.
- 6. Built-in screen for extended trouble-free service.



Specifications

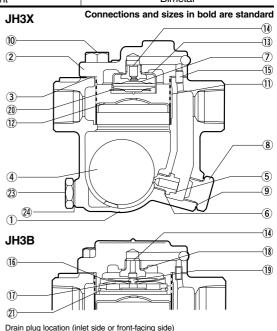
Model	JH3X		JH3B		
Connection		Screwed Socket Weld	Flanged	Screwed	Socket Weld
Size (in)		1/2, 3/4, 1 1/2, 3/4, 1		1/2, 3/4, 1	
Orifice No.		2, 5, 10, 22, 32		32	
Maximum Operating Pressure (psig)	PMO	30, 75, 150, 315, 450		450	
Maximum Differential Pressure (psi)	ΔΡΜΧ	30, 75, 150, 315, 450		450	
Minimum Operating Pressure (psig)		Vacuum		1.	5
Maximum Operating Temperature (°F)	TMO	464		662	
Maximum Allowable Pressure (psig)	PMA	450		450	
Maximum Allowable Temperature (°F)	TMA	662		662	
Type of Air Vent		X-element		Bimetal	

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	ASTM/AISI*	JIS
(1)	Body	Cast Steel	A216 Gr. WCB	_
	Cover (JH3B)	Cast Stainless Steel	A351 Gr. CF-8	SCS13A
2	Cover (JH3X)	Carbon Steel	A105	_
3 _{MR}	Cover Gasket	Stainl. St./Graphite	AISI316L	SUS316L
(4)F	Float	Stainless Steel	AISI316L	SUS316L
(5)R	Orifice	Stainless Steel	AISI420F	SUS420F
6)R	Orifice Gasket	Soft Iron	AISI1010	SUYP
(7)R	X-element	Stainless Steel	_	
8	Orifice Plug	Stainless Steel	AISI303	SUS303
9MR	Plug Gasket	Soft Iron	AISI1010	SUYP
10	Cover Bolt	Carbon Steel	AISI1045	S45C
(11)R	Screen	Stainless Steel	AISI430	SUS430
(12)R	Float Cover	Stainless Steel	AISI304	SUS304
(13)R	X-element Guide	Stainless Steel	AISI304	SUS304
(14)R	Air Vent Valve Seat	Stainless Steel	AISI420F	SUS420F
(15)	Connector	Stainless Steel	AISI416	SUS416
16R	Bimetal Air Vent	Bimetal	_	
(17)R	Bimetal Cover	Stainless Steel	AISI304	SUS304
18MR		Soft Iron	AISI1010	SUYP
19	Valve Plug	Stainless Steel	AISI416	SUS416_
20R	Spring Clip	Stainless Steel	AISI304	SUS304
21)R	Snap Ring	Stainless Steel	AISI304	SUS304
22	Flange (JH3X)**	Carbon/Cast Steel ***	A105/216 Gr. WCB	
23	Drain Plug	Carbon Steel	AISI1045	S25C
24)MR	Drain Plug Gasket	Soft Iron	AISI1010	SUYP

* Equivalent. ** Shown on reverse *** Material depends on flange specifications Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float



depends on connection type and size.

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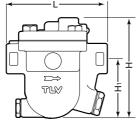


Consulting & Engineering Service

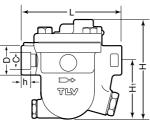
Dimensions

JH3X/JH3B

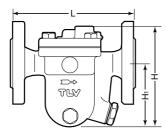
Screwed



JH3X/JH3B Socket Weld



JH3X Flanged



Sketches show JH3X. Configuration of JH3B differs slightly.

JH3X/JH3B Screwed* Size Η1 Weight (lb) 1/2 51/8 51/4(51/16) 31/4 6.7 3/4

53/4(59/16)

3%16

JH3X/JH3B Socket Weld

(in)

6.9

Size	L	Н	Нı	φD	φC	h	Weight (lb)
1/2	51/8	51/4(51/16)	31⁄4	1 ½16	7⁄8	1/ ₂ 9/ ₁₆	6.7
3/4					1 ½16		
1	51/4	5¾(5¾6)	3%16	13/4	13/8		6.9

():JH3B

JH3X Flanged

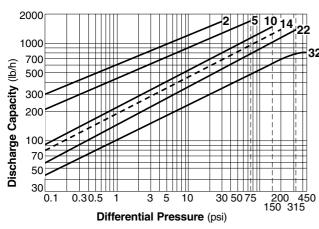
s	Size	AS	L SME Cla	SS	Н	H ₁ Weight	
		150RF	300RF	600RF			(lb)
	1/2		81⁄4	81/4	5¾	39⁄16	10
	3/4	81⁄4					12
	1						13

Other standards available, but length and weight may vary

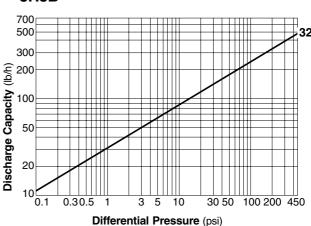
Flange classes in bold are standard

Discharge Capacity

JH3X



JH3B



- Line numbers within the graph refer to orifice numbers.
 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.

---- Available on special request Standard

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

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



ISO 9001/ISO 14001





^{51/4} * NPT, other standards available, ():JH3B

^{*} Weight is for Class 300/600 RF