



PROCESS FLOAT STEAM TRAP

MODEL JL9X/JLH9X

HIGH-CAPACITY IRON OR STEEL FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

Extremely durable, inline-repairable, compact float trap with thermostatic air venting for large process or heating equipment.

1. Double-seated valve with heat-treat hardened valve seat and valve head provides continuous, smooth, low-velocity condensate discharge as process loads vary.
2. Self-aligning valve mechanism with stainless steel internals minimizes wear.
3. Thermostatic capsule (X-element) with “fail open” feature vents air automatically until close-to-steam temperature.
4. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.
5. High-quality stainless steel internals and hardened valve surfaces ensure reliability.



Specifications

Model	JL9X	JLH9X
Connection	Screwed, Flanged*	Screwed, Socket Welded, Flanged
Size (mm)	50	
Orifice No.	10, 16	10, 18, 32
Maximum Operating Pressure (MPaG) PMO	1.0, 1.6	1.0, 1.8, 3.2
Maximum Differential Temperature (MPa) ΔPMX	1.0, 1.6	1.0, 1.8, 3.2
Minimum Operating Pressure (MPaG)	0.01	
Maximum Operating Temperature (°C) TMO	220	240

* JL9X has a screwed-in flange

1 MPa = 10.197 kg/cm²

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 1.6 (JL9X), 3.2 (JLH9X)
Maximum Allowable Temperature (°C) TMA: 220 (JL9X), 400 (JLH9X)

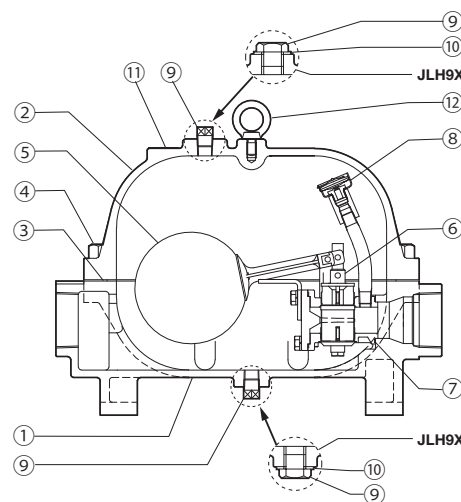


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	JIS	ASTM/AISI*
①	Body	JL9X Cast Iron	FC250	A126 Cl.B
		JLH9X Cast Steel	—	A216/A216M Gr.WCB
②	Cover	JL9X Cast Iron	FC250	A126 Cl.B
		JLH9X Cast Steel	—	A216/A216M Gr.WCB
③ ^{MR}	Cover Gasket	Graphite/Stainless Steel	— /SUS316L	— /AISI316L
④	Cover Bolt	JL9X Carbon Steel	S45C	AISI1045
		JLH9X Alloy Steel	SNB7	A193 Gr.B7
⑤ ^{FR}	Float / Lever	Stainless Steel/ Cast Stainl. Steel	SUS316L/ —	AISI316L/ A351/A351M Gr.CF8
⑥ ^R	Trap Unit (Main Valve Unit)	Cast Stainl. Steel / Cast Stainl. Steel	—	A351/A351M Gr.CF8/ A743/A743M Gr.CA40
⑦	Valve Seat Gasket	Stainless Steel	SUS304	AISI304
⑧ ^R	Air Vent (X-element) Unit	Stainless Steel	SUS304/420F	AISI304/420F
⑨	Cover Plug	JL9X Carbon Steel	SS400	A6
		JLH9X Carbon Steel	S25C	AISI1025
	Drain Plug	JL9X Carbon Steel	SS400	A6
		JLH9X Carbon Steel	S25C	AISI1025
⑩	Cover Plug Gasket (JLH9X)	Soft Iron	SUYP	AISI1010
	Drain Plug Gasket (JLH9X)	Soft Iron	SUYP	AISI1010
⑪	Nameplate	Stainless Steel	SUS304	AISI304
⑫	Eye Bolt	Carbon Steel	SS400	A307 Gr.B
⑬	Flange**	Carbon Steel	S25C	AISI1025

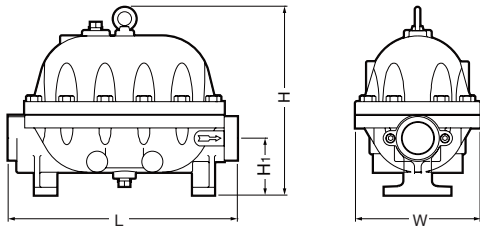
* Equivalent materials ** Shown on reverse

Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float



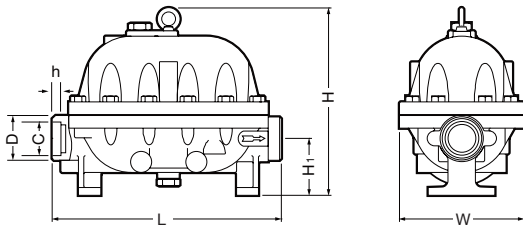
Dimensions

● JL9X/JLH9X Screwed

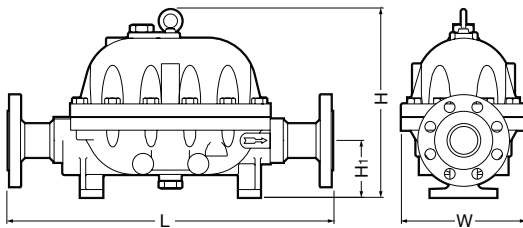


JL9X shown. Cover plug and drain plug on the JLH9X differ slightly.

● JLH9X Socket Welded



● JL9X/JLH9X Flanged



JLH9X shown. Cover plug and drain plug on the JL9X differ slightly.

JL9X/JLH9X Screwed* (mm)

Model	Size	L	H	H ₁	W	Weight (kg)
JL9X	50	414	338	102	225	34
JLH9X						36

* Rc(PT), other standards available

JLH9X Socket Welded* (mm)

Size	L	H	H ₁	W	φ D	φ C	h	Weight (kg)
50	414	338	102	225	78	61.2	16	36

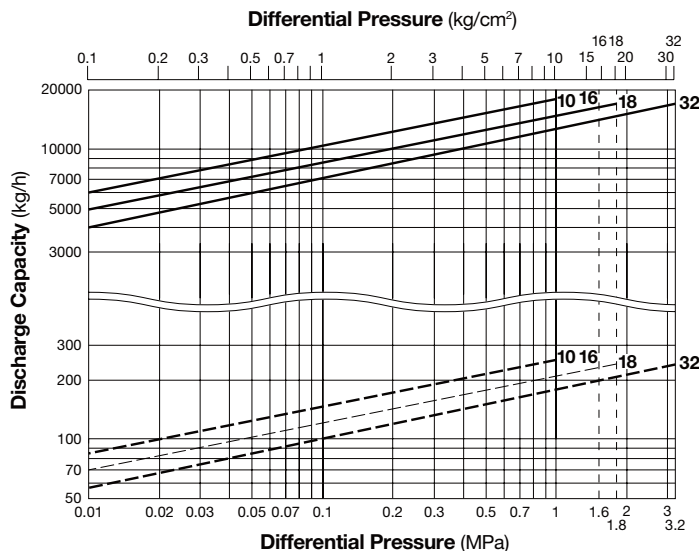
JL9X*/JLH9X Flanged* (mm)

Model	Size	L			H	H ₁	W	Weight (kg)
		ASME Class						
		150RF	300RF	600RF				
JL9X	50	584	584	—	338	102	225	42
JLH9X				584				44

Other standards available, but length and weight may vary

* JL9X has a screwed-in flange

Discharge Capacity



— : Maximum capacity of JL9X/JLH9X.
 - - - : Minimum amount of condensate required to prevent steam leakage.

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: 1.5.



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

Manufacturer

TLV® CO., LTD.
 Kakogawa, Japan

is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001
 ISO 14001

