PROCESS FLOAT STEAM TRAP

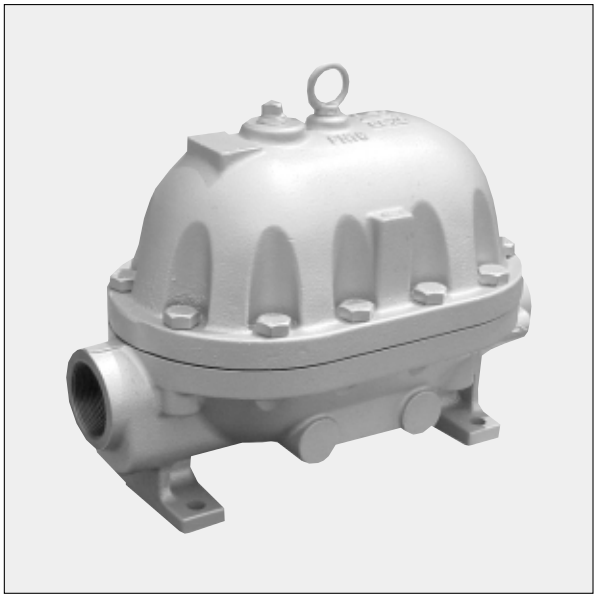
MODEL JL9X/JLH9X CAST IRON/ CAST STEEL

HIGH-CAPACITY IRON OR STEEL FLOAT & THERMOSTATIC STEAM TRAP

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. Integral thermostatic capsule vents air automatically until near-to-steam temperature, for rapid start-up, increased production and even heating.
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 / DN		2″ / 50		
Orifice No.		10, 13	10, 18	32
Maximum Operating Pressure (barg)	PMO	10, 13	10, 18	32
Maximum Differential Pressure (bar)	ΔPMX	10, 13	10, 18	32
Maximum Operating Temperature (°C)	TMO	200	220	240

*JL9X has a screwed-in flange.

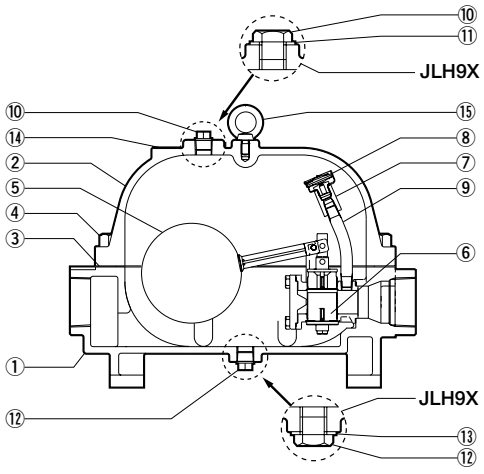
1 bar = 0.1 MPa

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS):Maximum Allowable Pressure (barg) PMA: 13 (JL9X), 32 (JLH9X)
Maximum Allowable Temperature (°C) TMA: 200 (JL9X), 400 (JLH9X)

⚠ 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.

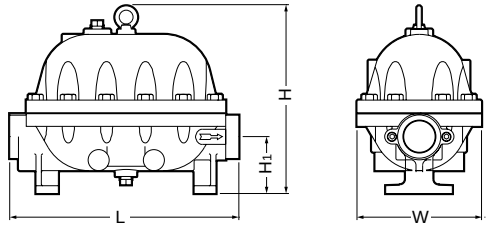
No.	Description	Material	DIN	ASTM/AISI*
①	Body (JL9X)	Cast Iron GG-25	0.6025	A126 Cl. B
	Body (JLH9X)	Cast Steel GS-C25	1.0619	A216 Gr. WCB
②	Cover (JL9X)	Cast Iron GG-25	0.6025	A126 Cl. B
	Cover (JLH9X)	Cast Steel GS-C25	1.0619	A216 Gr. WCB
③	Cover Gasket	Graphite Compound	—	—
④	Cover Bolt (JL9X)	Carbon Steel S45C	1.0503	AISI1045
	Cover Bolt (JLH9X)	Alloy Steel SNB7	1.7225	A193 Gr. B7
⑤	Float / Lever	Cast /Stainless Steel SUS316L / SCS13A	1.4404/1.4308	AISI316L / A351 Gr. CF8
⑥	Main Valve Unit	Cast Stainless Steel SCS13A / SCS2A	1.4308/1.4027	A351 Gr. CF8 / A743 Gr. CA40
⑦	Connector	Stainless Steel SUS304	1.4301	AISI304
⑧	X-element Unit	Stainless Steel SUS304/420	1.4301/1.4031	AISI304/420
⑨	Air Vent Pipe	Stainless Steel SUS304	1.4301	AISI304
⑩	Cover Plug (JL9X)	Carbon Steel S10C	1.0301	AISI1010
	Cover Plug (JLH9X)	Carbon Steel S25C	1.1158	AISI1025
⑪	Cover Plug Gasket (JLH9X)	Soft Iron SUYP	1.1121	AISI1010
⑫	Drain Plug (JL9X)	Carbon Steel S10C	1.0301	AISI1010
	Drain Plug (JLH9X)	Carbon Steel S25C	1.1158	AISI1025
⑬	Drain Plug Gasket (JLH9X)	Soft Iron SUYP	1.1121	AISI1010
⑭	Nameplate	Stainless Steel SUS304	1.4301	AISI304
⑮	Eye Bolt	Carbon Steel SS400	1.0037	A6
⑯	Flange**	Carbon Steel C22.8	1.1158	AISI1025

* Equivalent ** Not shown



Dimensions

● **JL9X/JLH9X** Screwed



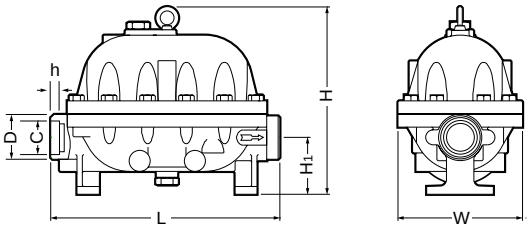
JL9X shown. Cover plug and drain plug on the JLH9X differ slightly.

JL9X/JLH9X Screwed* (mm)

Size	L	H	H_1	W	Weight (kg)
2″	414	338	102	225	34 (36)

* BSP DIN 2999, other standards available
( ) Model JLH9X

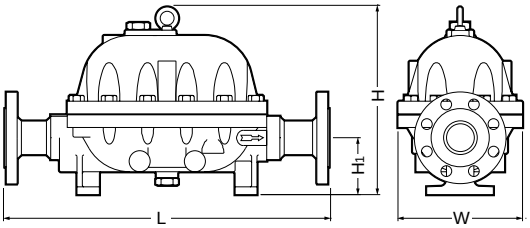
● **JLH9X** Socket Welded



JLH9X Socket Welded (mm)

DN	ϕD	ϕC	h	L	H	H_1	W	Weight(kg)
50	78	61.1	16	414	338	102	225	36

● **JL9X/JLH9X** Flanged*



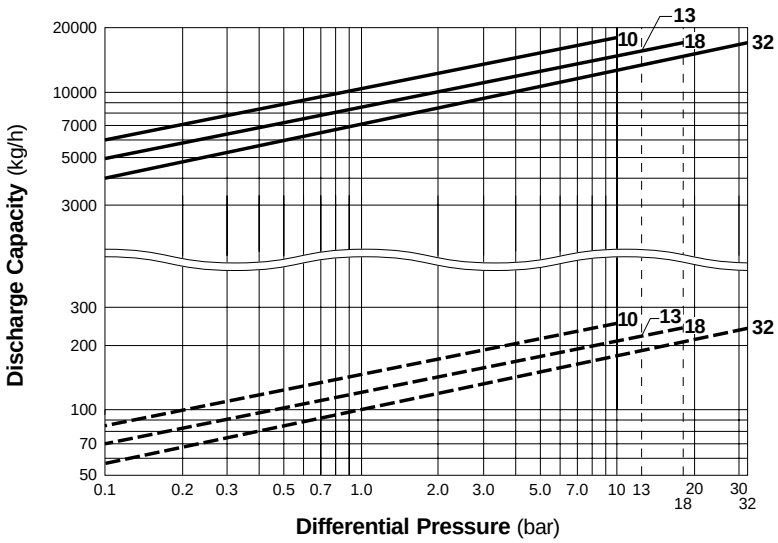
JLH9X shown. Cover plug and drain plug on the JL9X differ slightly.
* JL9X has a screwed-in flange.

JL9X*/JLH9X** Flanged (mm)

DN	L	H	H_1	W	Weight (approx.kg)
50	584	338	102	225	44

* ASME Class 150RF, 300RF, DIN PN 16
** ASME Class 150RF, 300RF, 600RF, DIN PN 16, 25/40
Other standards available

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 steam temperature.
4. Recommended safety factor: 1.5.

⚠ CAUTION

DO NOT use traps 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