PROCESS FLOAT STEAM TRAP

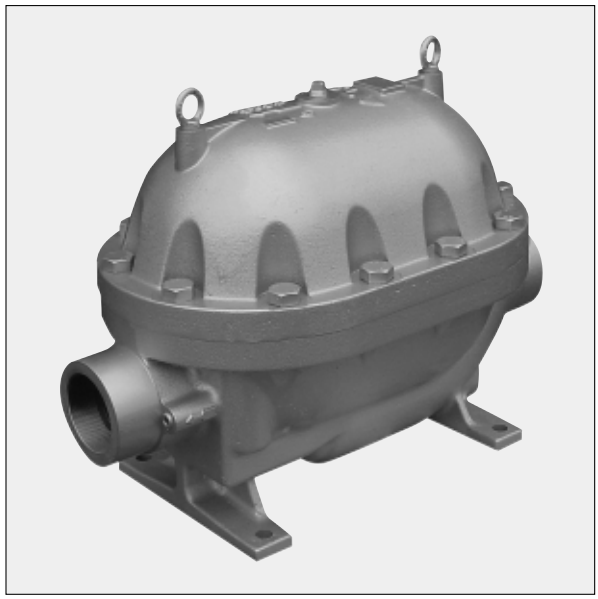
MODEL JL14X/JLH14X CAST IRON/ CAST STEEL

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 (X-element) 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		JL14X		JLH14X		
Connection		Screwed	Flanged*	Screwed	Socket Welded	Flanged
Size / DN		3″	DN 80	3″	DN 80	
Orifice No.		10, 13		10, 18		
Maximum Operating Pressure (barg)	PMO	10, 13		10, 18		
Maximum Differential Pressure (bar)	ΔPMX	10, 13		10, 18		
Maximum Operating Temperature (°C)	TMO	200		240 (400**)		

* JL14X has a screwed-in flange ** Optional JLH14B with bimetal-type air vent unit for initial air venting

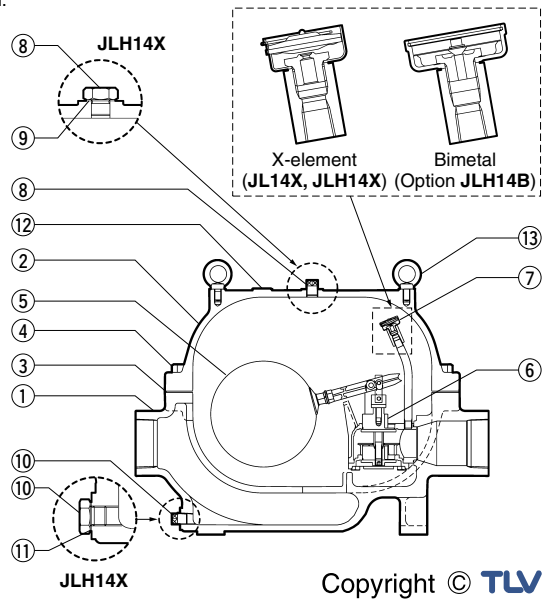
1 bar = 0.1 MPa

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS)
Maximum Allowable Pressure (barg) PMA: 13 (JL14X), 32 (JLH14X)
Maximum Allowable Temperature (°C) TMA: 200 (JL14X), 400 (JLH14X)

⚠ 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.

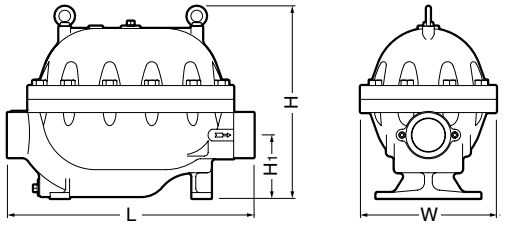
No.	Description	Material	DIN*	ASTM/AISI*
①	Body (JL14X)	Cast Iron FC250	0.6025	A126 Cl. B
	Body (JLH14X)	Cast Steel A216 Gr. WCB	1.0619	—
②	Cover (JL14X)	Cast Iron FC250	0.6025	A126 Cl. B
	Cover (JLH14X)	Cast Steel A216 Gr. WCB	1.0619	—
③	Cover Gasket	Graphite / Stainless Steel – / SUS316L	– / 1.4404	– / AISI316L
④	Cover Bolt (JL14X)	Carbon Steel S45C	1.0503	AISI1045
	Cover Bolt (JLH14X)	Alloy Steel SNB7	1.7225	A193 Gr. B7
⑤	Float / Lever Unit	Stainless Steel / SUS316L Cast Stainl. Steel A351 Gr. CF8	1.4404/ 1.4312	AISI316L / —
⑥	Trap Unit	Stainless Steel / SUS304 Cast Stainless Steel SCS2A	1.4301/ 1.4027	AISI304 / A217 Gr. CA15
⑦	Air Vent Pipe	Stainl. Steel SUS304/420F	1.4301/4028	AISI304/420F
⑧	Cover Plug (JL14X)	Carbon Steel SS400	1.0037	A6
	Cover Plug (JLH14X)	Carbon Steel S25C	1.1158	AISI1025
⑨	Cover Plug Gasket (JLH14X)	Soft Iron SUYP	1.1121	AISI1010
⑩	Drain Plug (JL14X)	Carbon Steel SS400	1.0037	A6
	Drain Plug (JLH14X)	Carbon Steel S25C	1.1158	AISI1025
⑪	Drain Plug Gasket (JLH14X)	Soft Iron SUYP	1.1121	AISI1010
⑫	Nameplate	Stainless Steel SUS304	1.4301	AISI304
⑬	Eye Bolt	Carbon Steel SS400	1.0037	A6
⑭	Flange**	Carbon Steel S25C	1.1158	AISI1025
⑮	Flange Pipe**	Carbon Steel STPG370	1.0308	A53 Type S Gr. A

* Equivalent ** Shown on reverse



Dimensions

● JL14X/JLH14X Screwed



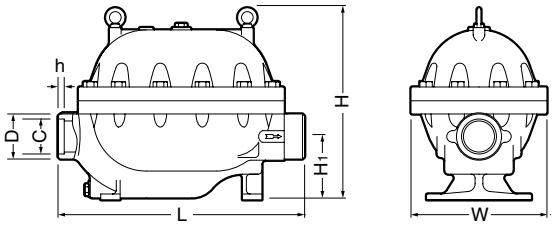
JL14X shown.

JL14X/JLH14X Screwed* (mm)

Size	L	H	H_1	W	Weight (kg)
3″	365	490	163	350	107 (110)

* BSP DIN 2999, other standards available
( ) JLH14X

● JLH14X Socket Welded

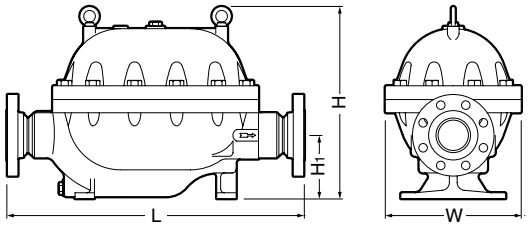


JLH14X Socket Welded* (mm)

DN	L	H	H_1	W	ϕD	ϕC	h	Weight (kg)
80	635	490	163	350	105	90	16	110

* ASME B16.11, other standards available

● JL14X/JLH14X Flanged



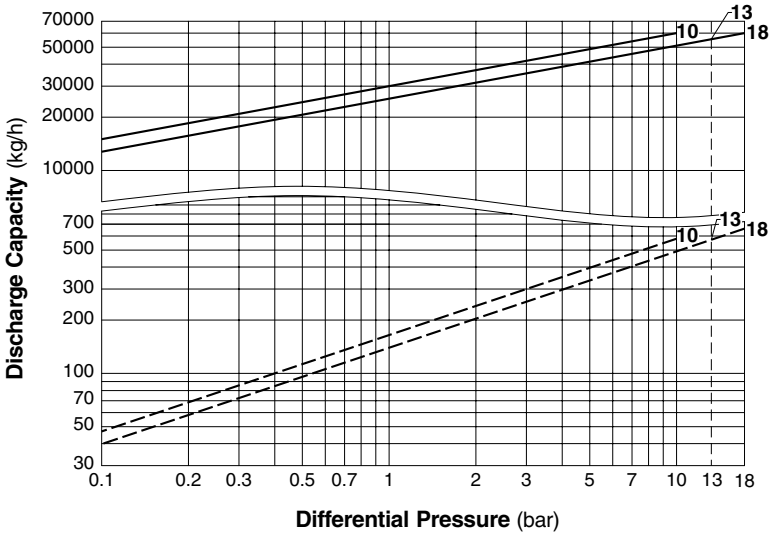
JLH14X shown.

JL14X*/JLH14X Flanged (mm)

DN	L			H	H_1	W	Weight** (kg)
	DIN 2501	ASME Class					
	PN25/40	150RF	300RF				
80	766	766	766	490	163	350	121 (124)

Other standards available, but length and weight may vary
* JL14X has a screwed-in flange
** Weight is for DIN PN 25/40
( ) JLH14X

Discharge Capacity



——— : Maximum capacity of JL14X/JLH14X.
– – – – : 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