FLOAT DYNAMIC® STEAM TRAP

MODEL J10 CAST IRON

CAST IRON FLOAT-PISTON TRAP FOR HIGH-CAPACITY PROCESS APPLICATION

Features

Inline maintainable, float dynamic steam trap capable of discharging condensate at high flow rates. Suitable for large process heat exchangers.

1. Self-modulating free float pilot mechanism ensures discharge at near-to-steam temperatures
2. Proven piston valve allows “pulsing” discharge of condensate at high flow rates and intermittent discharge at low flow rates.
3. Steam chamber design prevents damage to the valve and valve seat on closure.
4. All internal parts are easily accessible without having to remove the trap from the line.
5. Applicable over a wide pressure range without adjustment.
6. Manual lock release valve helps eliminate steam locking and air binding.

Specifications

Model		J10-30	J10-60
Connection		Flanged	
Size (mm)		100	
Maximum Operating Pressure (barg)	PMO	13	
Maximum Differential Pressure (bar)	ΔPMX	13	
Minimum Differential Pressure (bar)		0.5	
Maximum Operating Temperature (˚C)	TMO	220	

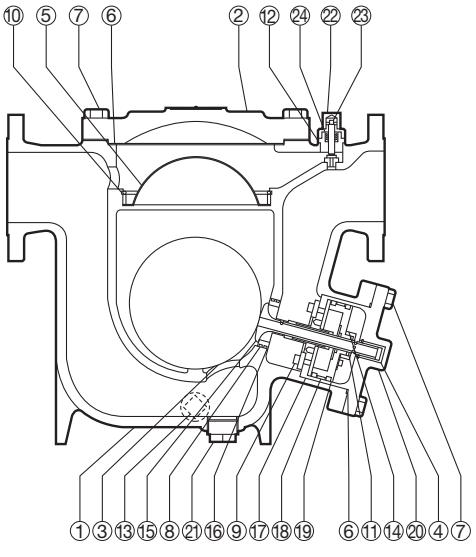
PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 13
Maximum Allowable Temperature (˚C) TMA: 220

1 MPa = 10.197 kg/cm²

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.

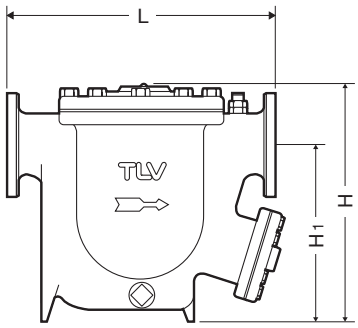
No.	Description	Material	DIN*	ASTM/AISI*
①	Body	Cast Iron FC250	GG-25	A126 Cl.B
②	Cover	Cast Iron FC250	GG-25	A126 Cl.B
③	Float	Stainless Steel SUS316L	1.4404	AISI316L
④	Sleeve	Stainless Steel SUS420F	1.4028	AISI420F
⑤	Float Cover	Stainless Steel SUS304	1.4301	AISI304
⑥	Cover Gasket	Graphite/Stainl. Stl. - /SUS316L	-/1.4404	- /AISI316L
⑦	Cover Bolt	Carbon Steel SS400	1.0037	A6
⑧	O-Ring	Synthetic Rubber EPR	EPR	D2000CA
⑨	Main Valve Seat Bolt	Alloy Steel SCM435	1.7220	AISI4135
⑩	Snap Ring	Stainless Steel SUS304	1.4301	AISI304
⑪	Stopper Ring	Stainless Steel SUS420F	1.4028	AISI420F
⑫	Relief Valve Gasket	Soft Iron SUYP	1.1121	AISI1010
⑬	Drain Plug	Carbon Steel SS400	1.0037	A6
⑭	Turn Stopper	Stainless Steel SUS304	1.4301	AISI304
⑮	Main Valve	–	—	–
⑯	Main Valve Seat	–	—	–
⑰	Cylinder	Stainless Steel SUS304	1.4301	AISI304
⑱	Piston Ring Set	Stainl. Stl./Fluorine Resin SUS304/PTFE	1.4301/PTFE	AISI304/PTFE
⑲	Piston	Stainless Steel SUS304	1.4301	AISI304
⑳	Valve Cover	Cast Iron FC250	GG-25	A126 Cl.B
㉑	Plug	Malleable Cast Iron FCMB27-05	0.8135	A47 Gr.32510
㉒	Lock Release Valve Cap	Stainless Steel SUS303	1.4305	AISI303
㉓	Lock Release Valve	Stainless Steel SUS420F	1.4028	AISI420F
㉔	V-Ring Packing	Fluorine Resin PTFE	PTFE	PTFE

* Equivalent materials



Dimensions

● **J10** Flanged



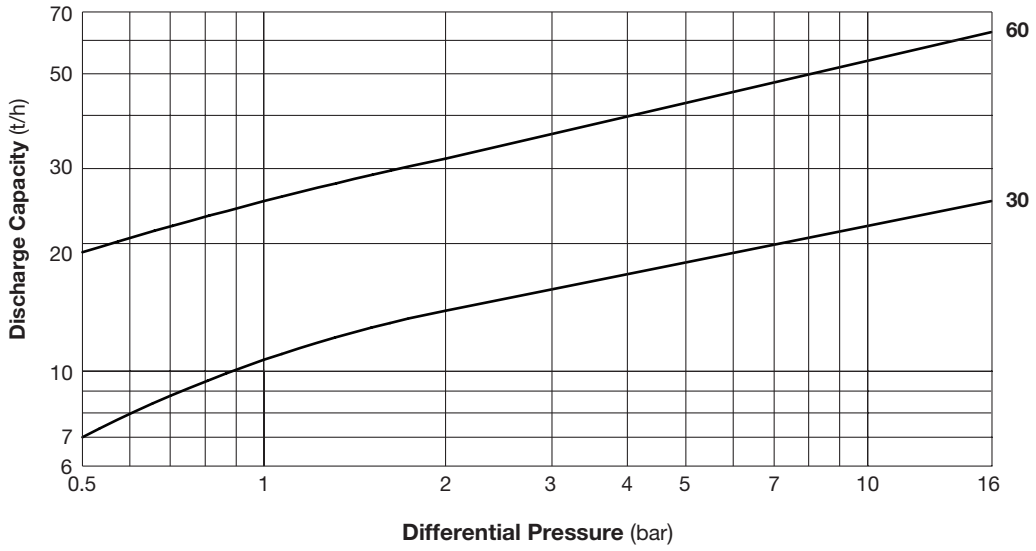
J10 Flanged (mm)

Size	L					H	H1	Weight* (kg)
	DIN 2501	ASME Class						
	PN16	125FF	(150RF)	250RF	(300RF)			
100	595	595	595	611	611	510	395	121

( ) No ASME standard exists for cast iron; machined to fit steel flanges
Class 125 FF can connect to 150 RF, 250 RF can connect to 300 RF
Other standards available, but length and weight may vary
* Weight is for Class 250 RF

Installation of a strainer (TLV-Y3/YF/YDF or equivalent) at the trap inlet is recommended.

Discharge Capacity



1. Capacities are based on continuous discharge of condensate 6˚C below saturated steam temperature.
2. Differential pressure is the difference between the inlet and outlet pressure of the trap.
3. Select the closest model with a capacity greater than the actual condensate load multiplied by a safety factor of 1.2.

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

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