FREE FLOAT STAINLESS

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

TLV

A reliable and durable stainless steel steam trap for use on small-size process equipment. JH3-B is also suitable for both superheated and highpressure process equipment.

- 1. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
- 2. Constant water seal and unique three-point seating ensure perfect steam-tight seal, even under no-load conditions.
- 3. **JH3-X**: Thermostatic capsule (X-element) with "fail open" feature vents air automatically at close-to-steam temperature.
- 4. JH3-B: Thermostatic bimetal air vent valve vents air automatically for rapid startup.
- 5. Built-in screen with large surface ensures trouble free operation.
- 6. Easy, inline access to internal parts simplifies cleaning and reduces maintenance costs.



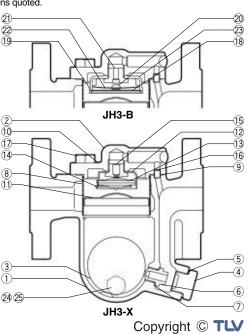
Specifications

Model		JH3-X	JH3-B
Connection		Flanged	Flanged
Size		DN 15, 20, 25	DN 15, 20, 25
Orifice No.		2, 5, 10, 14, 22, 32	2, 5, 10, 14, 22, 32
Maximum Operating Pressure (barg)	PMO	2, 5, 10, 14, 22, 32	2, 5, 10, 14, 22, 32
Maximum Differential Pressure (bar)	ΔΡΜΧ	2, 5, 10, 14, 22, 32	2, 5, 10, 14, 22, 32
Maximum Operating Temperature (°C)	TMO	240	350
Type of Air Vent		X-element (6 °C subcooling)	Bimetal (vents air up to approx. 100 °C)

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 32 1 bar = 0.1 MPa Maximum Allowable Temperature (°C) TMA: 350

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 Stainless Steel A351 Gr.CF8	1.4312	_
2)	Cover	Cast Stainless Steel A351 Gr.CF8	1.4312	_
3)F	Float	Stainless Steel SUS316L	1.4404	AISI316L
4)	Orifice Plug	Cast Stainless Steel A351 Gr.CF8	1.4312	_
5) ^{MR}	Orifice Plug Gasket	Stainless Steel SUS316L	1.4404	AISI316L
6) ^R	Orifice	—	—	_
7) ^{MR}	Orifice Gasket	Stainless Steel SUS316L	1.4404	AISI316L
8) ^R	Screen inside/outside	Stainless Steel SUS430/304	1.4016/1.4301	AISI430/304
9) ^{MR}	Cover Gasket	Graphite/Stainless Steel SUS316L	-/1.4404	-/AISI316L
10	Nameplate	Stainless Steel SUS304	1.4301	AISI304
ĺ]) ^R	Float Cover	Stainless Steel SUS304	1.4301	AISI304
12) ^R	X-element Guide	Stainless Steel SUS304	1.4301	AISI304
13 ^R	X-element	_	—	_
14) ^R	Spring Clip	Stainless Steel SUS304	1.4301	AISI304
15) ^R	Air Vent Valve Seat	Stainless Steel SUS420F	1.4028	AISI420F
16	Connector	Stainless Steel SUS416	1.4005	AISI416
17)	Cover Bolt	Stainless Steel SUS304	1.4301	AISI304
18 ^R	Air Vent Screen	Stainless Steel SUS304	1.4301	AISI304
19 ^R	Snap Ring	Stainless Steel SUS304	1.4301	AISI304
20 ^R	Air Vent Valve Plug	_	_	_
21) ^R	Air Vent Valve Seat	—	—	_
2) ^R	Bimetal Plate	—	—	_
23 ^R	Air Vent Case	Cast Stainless Steel A351 Gr.CF8	1.4312	_
24)	Drain Plug Gasket**	Stainless Steel SUS316L	1.4404	AISI316L
25)	Drain Plug**	Stainless Steel SUS303	1.4305	AISI303



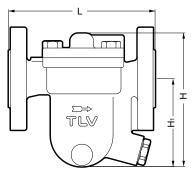
* Equivalent materials ** Option

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

Dimensions

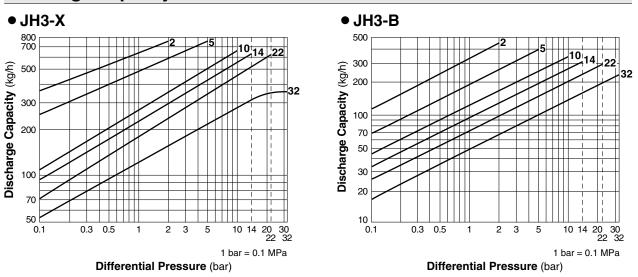
TLV

• JH3-X/JH3-B Flanged



JH3-X/JH3-B Flanged (mm)								
DN	L	Н	Hı	Weight (kg)				
	DIN 2501							
	PN25/40							
15	150	132	84	3.4				
20	150	140	90	3.6				
25	160	147	92	4.6				

Discharge Capacity



- 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: at least 1.5.



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









http://www.tlv.com

SDS U2000-176 Rev. 3/2016

Products for intended use only. Specifications subject to change without notice.