FREE FLOAT STEAM TRAP

MODEL JH3X

FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

TLV

Inline repairable traps for drainage of high pressure heat exchangers and process heaters.

- 1. Self-modulating free float provides continuous, smooth, low velocity condensate discharge as process loads vary.
- 2. Constant water seal and unique rotational seating design eliminates concentrated wear and ensures perfect steam-tight seal, even under low-load conditions.
- 3. Easy inline repair and maintenance possible.
- 4. Precision-ground float for superior sealing.
- 5. Thermostatic capsule with "fail open" feature vents air automatically until close to steam temperature.
- 6. Built-in screen with large surface area.
- 7. Rugged construction, withstands superheat and water hammer.



Specifications

Model	JH3X				
Connection	Screwed	Socket Welded	Flanged		
Size (mm)	15, 20, 25 15, 20, 25 15, 20				
Orifice No.	2, 5, 10, 14, 22, 32				
Maximum Operating Pressure (MPaG) PMO	0.2, 0.5, 1.0, 1.4, 2.2, 3.2				
Maximum Differential Pressure (MPa) ΔPMX	0.2, 0.5, 1.0, 1.4, 2.2, 3.2				
Minimum Operating Pressure (MPaG)	0.01				
Maximum Operating Temperature (°C) TMO	240				
Subcooling of X-element Fill (°C)	up to 6				
Type of X-element	В				
PRESSURE SHELL DESIGN CONDITIONS			1 MPa = 10.197 kg/cm ²		

(NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 3.2 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	JIS	ASTM/AISI*
1	Body	Cast Steel	—	A216 Gr. WCB
2	Cover	Carbon Steel	—	A105
3F	Float	Stainless Steel	SUS316L	AISI316L
(4) R	Orifice	Stainless Steel	SUS420F	AISI420F
(5) MR	Orifice Gasket	Soft Iron	SUYP	AISI1010
6	Orifice Plug	Stainless Steel	SUS303	AISI303
(7) MR	Plug Gasket	Soft Iron	SUYP	AISI1010
(8) MR	Cover Gasket	Stainl. Stl./Graphite	SUS316L	AISI316L
(9)R	Float Cover	Stainless Steel	SUS304	AISI304
(10 R	Screen inner/outer	Stainless Steel	SUS430/304	AISI430/304
(1) R	X-element Guide	Stainless Steel	SUS304	AISI304
(12) R	X-element	Stainless Steel	—	_
(13) R	Spring Clip	Stainless Steel	SUS304	AISI304
14	Nameplate	Stainless Steel	SUS304	AISI304
(15) R	Air Vent Valve Seat	Stainless Steel	SUS420F	AISI420F
16	Connector	Stainless Steel	SUS416	AISI416
17	Cover Bolt	Carbon Steel	S45C	AISI1045
18	Flange**	Forged Steel***	_	A105/A216 Gr. WCB
(19) MR	Drain Plug Gasket	Soft Iron	SUYP	AISI1010
20	Drain Plug	Carbon Steel	S25C	AISI1045





* Equivalent ** Shown on reverse *** Either A105 or A216 Gr. WCB, depending upon flange specifications Replacement kits available: (M) maintenance parts, (R) repair parts, (F) float

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Consulting & Engineering Service

Dimensions



JH3X	Screwed*			(mm)		
Size	L	Н	H1	Weight (kg)		
15	120	100	00	2		
20	130	155	02	5		
25	133	146	91	3.1		
* Po(PT) other standards available						

* Rc(PT), other standards available

JH3X	Soc	ket We	(mm)				
Size	L	Н	H1	φC	φD	h	Weight (kg)
15	130	100	00	21.70	36	12	3
20) 130 133 82	02	27.05		14	
25	133	146	91	33.80	44	14	3.1

JH3X Flanged (mm)								
L(ASME Class)		Н	Hı	W	Weight			
150RF	300RF	600RF				(approx. kg)		
						4.5		
210	210	210	146	106	91	5.4		
						6.1		
	X Fla L(A 150RF 210	Flanged L(ASME Classifier 150RF 300RF 210 210	Flanged L(ASME Class) 150RF 300RF 210 210 210	L(ASME Class) H 150RF 300RF 600RF 210 210 210 146	L(ASME Class) H H1 150RF 300RF 600RF H 11 210 210 210 146 106	L(ASME Class) H H1 W 150RF 300RF 600RF H 106 91		

Other standards available, but length and weight may vary

Manufacturer

Kakogawa, Japan is approved by LRQA Ltd. to ISO 9001/14001

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Discharge Capacity





http://www.tlv.com

SDS M2000-176 Rev. 3/2002 Specifications subject to change without notice.

ISO 9001/ISO 14001