



FREE FLOAT® STEAM TRAP

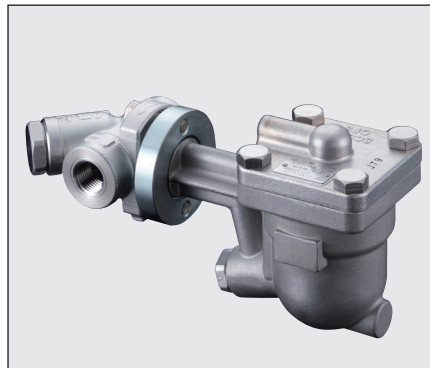
MODEL FJ32-X/FJ32-B QuickTrap®

UNIVERSAL FREE FLOAT STEAM TRAP WITH THREE-POINT SEATING AND THERMOSTATIC AIR VENTING

Benefits

Inline replaceable and cleanable two-bolt universal flange steam trap with high air venting capability. For small to medium-sized process equipment.

1. Three-point seating ensures a steam tight seal even under no-load conditions.
2. Universal flange allows trap to be positioned in the correct attitude, regardless of the pipeline configuration.
3. Unique free-float design eliminates concentrated wear ensuring long reliable life.
4. **FJ32-X:** Thermostatic capsule (X-element) with "fail open" feature vents air automatically at close-to-steam temperature.
5. **FJ32-B:** Thermostatic bimetal air vent valve vents air automatically for rapid startup.
6. Built-in screens in connector and trap body protect and keep trap module replacement costs low.



Specifications

Model	FJ32-X			FJ32-B			
	Screwed	Socket Welded	Flanged	Screwed	Socket Welded	Flanged	
Connection							
Size (in)	½, ¾, 1			½, ¾, 1			
Orifice No.	2, 5, 10, 14, 22, 32			2, 5, 10, 14, 22, 32			
Maximum Operating Pressure (psig)	PMO	30, 75, 150, 200, 315, 450			30, 75, 150, 200, 315, 450		
Maximum Differential Pressure (psi)	ΔPMX	30, 75, 150, 200, 315, 450			30, 75, 150, 200, 315, 450		
Minimum Operating Pressure (psig)		1.5			1.5		
Maximum Operating Temperature (°F)	TMO	464			662		
Maximum Allowable Pressure (psig)	PMA	450			450		
Maximum Allowable Temperature (°F)	TMA	662			662		
Connector Unit		F46			F46		
Trap Unit		J32-X*			J32-B*		
Type of Air Vent		X-element type C6: 11 °F subcooling			Bimetal (vents air up to approx. 212 °F)		

* Designed for use with F46, F32 Connector Units, V1/V2/V1P/V2P Trap Stations, and QuickStation™. Trap and Connector Units sent as separate units for flexible installation.

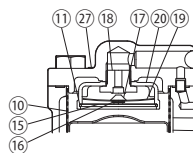
Connections and sizes in bold are standard. Connections and sizes in bold are standard. Trap and Connector Units sent as separate units for flexible installation.

No.	Description	Material	ASTM/AISI*	JIS
1 ^T	Trap Body	Cast Stainl. Steel	A351/A351M Gr.CF8	—
2 ^T	Cover	Cast Stainl. Steel	A351/A351M Gr.CF8	—
3 ^{TF}	Float	Stainless Steel	AISI316L	SUS316L
4 ^{RT}	Orifice	—	—	—
5 ^{MRT}	Orifice Gasket	Stainless Steel	AISI316L	SUS316L
6 ^T	Orifice Plug	Cast Stainl. Steel	A351/A351M Gr.CF8	—
7 ^{MRT}	Orifice Plug Gasket	Stainless Steel	AISI316L	SUS316L
8 ^{MRT}	Cover Gasket	Stainless Steel/Graphite	AISI316L/—	SUS316L/—
9 ^{RT}	Float Cover	Stainless Steel	AISI304	SUS304
10 ^{RT}	Screen inside/outside	Stainless Steel	AISI430	SUS430
11 ^{RT}	Spring Clip	Stainless Steel	AISI304	SUS304
12 ^{RT}	X-element Guide	Stainless Steel	AISI304	SUS304
13 ^{RT}	Air Vent Valve Seat	Stainless Steel	AISI420F	SUS420F
14 ^{RT}	X-element	—	—	—
15 ^{RT}	Air Vent Screen	Stainless Steel	AISI304	SUS304
16 ^{RT}	Snap Ring	Stainless Steel	AISI304	SUS304
17 ^{RT}	Air Vent Valve Plug	—	—	—
18 ^{RT}	Air Vent Valve Seat	—	—	—
19 ^{RT}	Bimetal Plate	—	—	—
20 ^T	Air Vent Case	Cast Stainl. Steel	A351/A351M Gr.CF8	—
21 ^T	Cover Bolt	Stainless Steel	A193/A193M Gr.B8 Cl.2	—
22 ^T	Connector	Stainless Steel	AISI416	SUS416
23 ^T	Connector Flange	Carbon Steel	A105/A105M	—
24 ^{MRT}	Inner Connector Gasket	Stainless Steel/Graphite	AISI304/—	SUS304 /—
25 ^{MRT}	Outer Connector Gasket	Stainless Steel/Graphite	AISI304/—	SUS304 /—
26 ^T	Connector Ring	Carbon Steel	AISI1055	SWRH57
27 ^T	Nameplate	Stainless Steel	AISI304	SUS304
28 ^C	Connector Body	Cast Stainl. Steel	A351/A351M Gr.CF8	—
29 ^C	Screen inside/outside	Stainless Steel	AISI430	SUS430
30 ^{MRC}	Screen Holder Gasket	Stainless Steel	AISI316L	SUS316L
31 ^C	Screen Holder	Cast Stainl. Steel	A351/A351M Gr.CF8	—
32 ^T	Connector Bolt**	Alloy Steel	A193 Gr.B7	SNB7
33 ^C	Nameplate	Stainless Steel	AISI304	SUS304
34 ^C	Flange***	Cast Stainl. Steel	A351/A351M Gr.CF8	—
		Stainless Steel	AISI304	SUS304

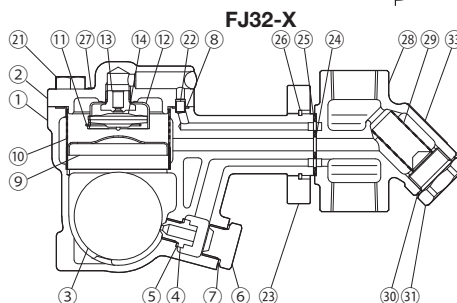


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification

range. Local regulations may restrict the use of this product to below the conditions quoted.



FJ32-B

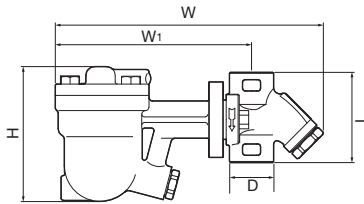


FJ32-X

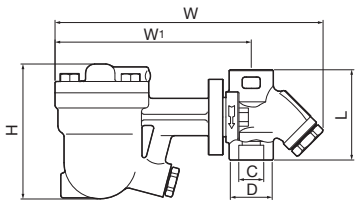
* Equivalent materials ** Shown on reverse *** Shown on reverse, shape and material depend on flange specifications
 Replacements kits available: (M) maintenance parts, (R) repair kits, (T) trap unit J32-X/B, (C) connector unit F46, (F) float

Dimensions

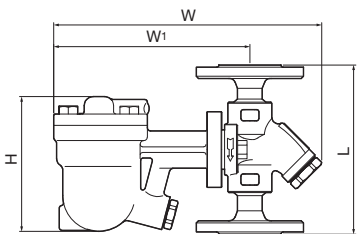
● **FJ32-X/FJ32-B** Screwed



● **FJ32-X/FJ32-B** Socket Welded



● **FJ32-X/FJ32-B** Flanged



FJ32-X/FJ32-B Screwed* (in)

Size	L	H**	W**	W1**	φ D	Weight (lb)
1/2	3 1/8	4 3/4	9 7/16	6 7/8	1 1/2	6.4
3/4				7 1/16		
1	3 3/4				1 13/16	7.0

* NPT, other standards available
** Approx.

FJ32-X/FJ32-B Socket Welded* (in)

Size	L	H**	W**	W1**	φ C	φ D	Weight (lb)
1/2	3 1/8	4 3/4	9 7/16	6 7/8	0.855	1 7/16	6.4
3/4				7 1/16	1.065		
1	3 3/4			7 1/16	1.330	1 3/4	7.0

* ASME B16.11-2005, other standards available
** Approx.

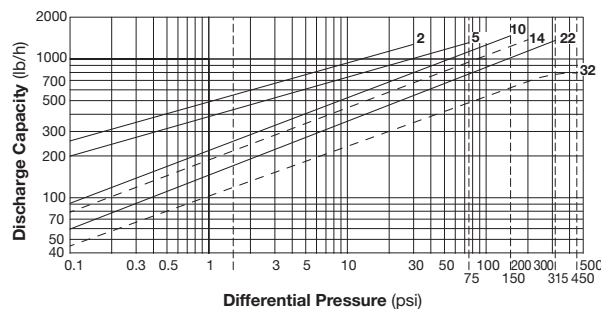
FJ32-X/FJ32-B Flanged (in)

Size	L*			H**	W**	W1**	Weight*** (lb)
	Connects to ASME Class						
	150RF	300RF	600RF				
1/2	SS: 5 7/8 CS: 5 1/2	SS: 5 7/8 CS: 5 1/2	SS: 7 1/16 CS: 5 1/2	4 3/4	9 7/16	6 7/8	11
3/4	SS: 5 7/8 CS: 6 1/2	SS: 5 7/8 CS: 6 1/2	SS: 7 1/16 CS: 6 1/2				14
1	SS: 6 5/16 CS: 8 1/4	SS: 6 5/16 CS: 8 1/4	SS: 7 1/2 CS: 8 1/4				15

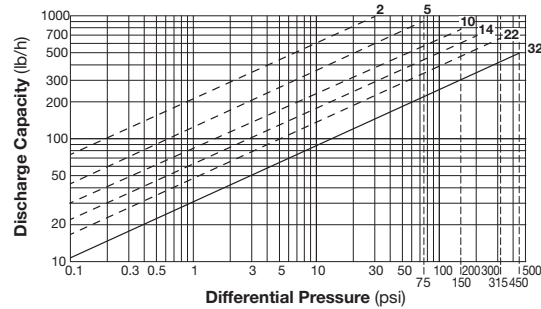
Other standards available, but length and weight may vary
* SS: stainless steel, CS: carbon steel. Flange material refers only to flanges.
F46 connector body material is always stainless steel.
** Approx.
*** Weight is for Class 600 RF

Discharge Capacity

● **FJ32-X**



● **FJ32-B**



- : Standard - - - - : Available on special request
- Line numbers within the graph refer to orifice numbers.
 - Differential pressure is the difference between the inlet and outlet pressure of the trap.
 - Capacities are based on continuous discharge of condensate 11 °F below saturated steam temperature.
 - Recommended safety factor: at least 1.5.

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

CAUTION DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE. Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

TLV CORPORATION

13901 South Lakes Drive, Charlotte, NC 28273-6790
Tel: 704-597-9070 Fax: 704-583-1610
E-mail: tlv@tlvengineering.com <https://www.tlv.com>
For Technical Service 1-800 "TLV TRAP"



Manufacturer
TLV CO., LTD.
Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001
ISO 14001

