



FREE FLOAT STEAM TRAP

MODEL FS3/FS5 QuickTrap™

UNIVERSAL FREE FLOAT AND THERMOSTATIC STEAM TRAP WITH THREE POINT SEATING

Benefits

Two-bolt universal connector facilitates inline steam trap replacement in minutes on steam mains, tracers and light process.

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 pipeline configuration.
3. Up to 1740 psig hydraulic shock rating and 0.004 diameters sphericity ensure excellent resistance of the float to water hammer.
4. Unique free-float design eliminates concentrated wear ensuring long reliable life.
5. Durable thermostatic air vent automatically vents air for exceptional start-up and performance.
6. One screen located in connector and one in trap ensure trouble-free operation.



Specifications

Model	FS3			FS5		
	Screwed	Socket Weld	Flanged	Screwed	Socket Weld	Flanged
Connection						
Size (in)	½, ¾, 1		½, ¾, 1	½, ¾, 1		½, ¾, 1
Orifice No.	10, 18, 21			10, 21, 32		
Maximum Operating Pressure (psig) PMO	150, 250, 300			150, 300, 450		
Maximum Differential Pressure (psi) ΔPMX	150, 250, 300			150, 300, 450		
Minimum Operating Pressure (psig)	1.5			1.5		
Maximum Operating Temperature (°F) TMO	662			662		
Maximum Allowable Pressure (psig) PMA	300			450		
Maximum Allowable Temperature (°F) TMA	662			662		

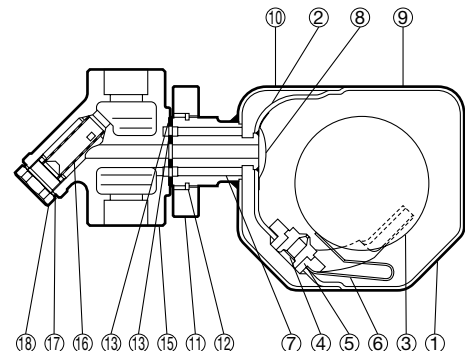


To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

Sizes in bold are standard

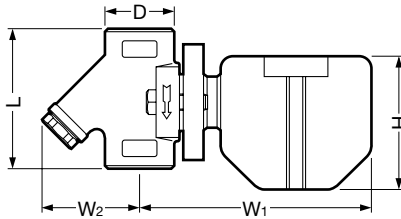
No.	Description	Material*	ASTM/AISI*	JIS
①	Trap Body	Stainless Steel	AISI316L	SUS316L
②	Inner Cover	Stainless Steel	AISI316L	SUS316L
③	Float	Stainless Steel	AISI316L	SUS316L
④	Orifice	Stainless Steel	AISI420F	SUS420F
⑤	Float Guide	Cast Stainless Steel	A743 Gr. CF-8M	SCS16
⑥	Air Vent Strip	Bimetal	—	—
⑦	Connector Joint	Stainless Steel	AISI304	SUS304
⑧	Screen	Stainless Steel	AISI304	SUS304
⑨	Nameplate	Stainless Steel	AISI304	SUS304
⑩	Up-Seal	Aluminum	B209	Al
⑪	Connector Flange	Carbon Steel	A105	—
⑫	Snap Ring	Carbon Steel	—	SWRH57
⑬	Connector Gasket	Stainless Steel/Graphite	AISI304	SUS304
⑭	Connector Bolt**	Alloy Steel	A193 Gr. B7	SNB7
⑮	Connector Body	Cast Stainless Steel	A351 Gr. CF8	SCS13A
⑯	Screen	Stainless Steel	AISI430	SUS430
⑰	Holder Gasket	Soft Iron***	AISI1010	SUYP
⑱	Screen Holder	Carbon Steel***	A105	—
⑲	Flange**	Stainless Steel	AISI304	SUS304

* Equivalent ** Shown on reverse *** Option: stainless steel

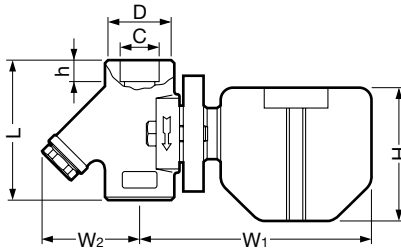


Dimensions

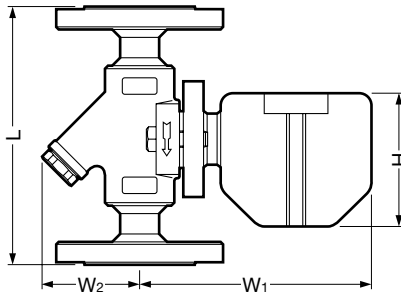
● **FS3/FS5**
Screwed



● **FS3/FS5**
Socket Weld



● **FS3/FS5**
Flanged



FS3/FS5 Screwed* (in)

Size	L	φD	φH	W ₁	W ₂	Weight (lb)
1/2	3 1/8	1 9/16	3 (4 1/8)	5 1/2 (6 3/4)	2 3/16	3.7 (4.6)
3/4						
1**	3 3/4	1 13/16		5 11/16 (6 15/16)	2 15/16	4.4 (5.5)

* NPT, other standards available, () :FS5
** Configuration of 1" differs slightly from 1/2" and 3/4"

FS3/FS5 Socket Weld (in)

Size	φC	h	L	φD	φH	W ₁	W ₂	Weight (lb)
1/2	7/8	1/2	3 1/8	1 9/16	3 (4 1/8)	5 1/2 (6 3/4)	2 3/16	3.7 (4.6)
3/4	1 1/16							
1*	1 3/8	3/4	3 3/4	1 13/16		5 11/16 (6 15/16)	2 15/16	4.4 (5.5)

* Configuration of 1" differs slightly from 1/2" and 3/4", () :FS5

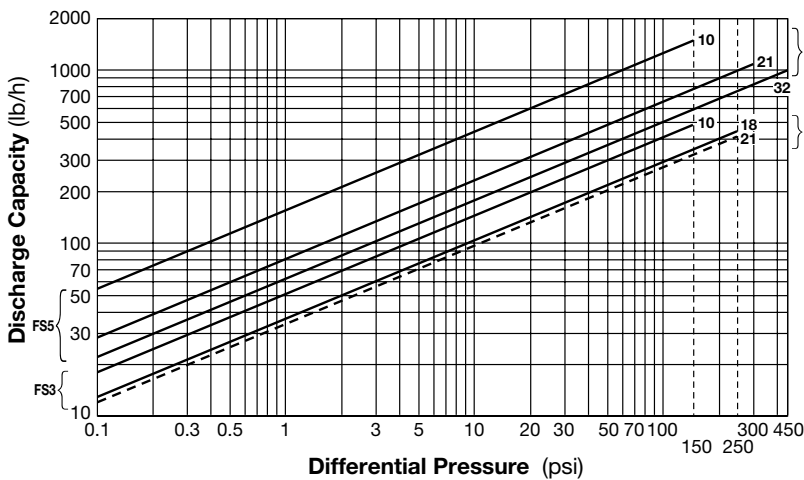
FS3/FS5 Flanged* (in)

Size	L	φH	W ₁	W ₂	Weight (lb)
1/2	5 7/8 [7 1/16]	3 (4 1/8)	5 1/2 (6 3/4)	2 3/16	7.3 (8.1) [10]
3/4					9.2 (10) [15]
1	6 5/16 [7 1/2]				10 (11) [16]

* ASME Class 300RF [Class600RF], other standards available, () :FS5

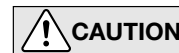
Sizes in bold are standard

Discharge Capacity



—— 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.



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

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Manufacturer

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

ISO 9001/ISO 14001

