



FREE FLOAT[®] STEAM TRAP

MODEL FS3 QuickTrap[®]

UNIVERSAL FREE FLOAT STEAM TRAP WITH THERMOSTATIC AIR VENTING

Features

Inline replaceable two-bolt universal flange steam trap for steam mains, tracers and light process.

1. Two-bolt flange connector permits trap replacement in minutes without disturbing piping.
2. Universal flange allows trap to be positioned in the correct attitude, regardless of pipeline configuration.
3. Precision-ground float, constant water seal and three-point seating design ensure a steam tight seal, even under no-load conditions.
4. Thermostatic air venting with bimetal strip allows for fast start-up.
5. One screen located in connector and one in trap ensure trouble-free operation.



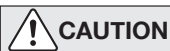
Specifications

Model	FS3		
Connection	Screwed	Socket Welded	Flanged
Size (mm)	15, 20, 25		
Orifice No.	10, 21		
Maximum Operating Pressure (MPaG) PMO	1.0, 2.1		
Maximum Differential Pressure (MPa) ΔPMX	1.0, 2.1		
Minimum Operating Pressure (MPaG)	0.01		
Maximum Operating Temperature (°C) TMO	400		
Connector Unit	F46		
Trap Unit	S3*		

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

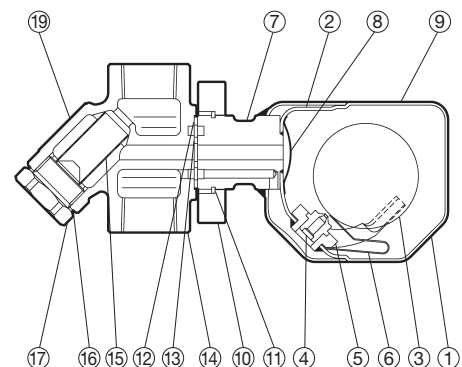
1 MPa = 10.197 kg/cm²

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 2.4
Maximum Allowable Temperature (°C) TMA: 400



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.

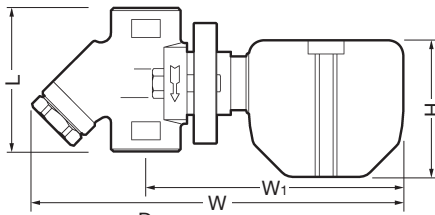
No.	Description	Material	JIS	ASTM/AISI*	
① ^T	Trap Body	Stainless Steel	—	A240 Type 316L	
② ^T	Inner Cover	Stainless Steel	—	A240 Type 316L	
③ ^T	Float	Stainless Steel	SUS316L	AISI316L	
④ ^T	Orifice	—	—	—	
⑤ ^T	Float Guide	Stainless Steel	—	A351 Gr.CF3M	
⑥ ^T	Air Vent Strip	Bimetal	—	—	
⑦ ^T	Connector Joint	Stainless Steel	SUS304	AISI304	
⑧ ^T	Trap Screen	Stainless Steel	SUS304	AISI304	
⑨ ^T	Nameplate	Stainless Steel	SUS304	AISI304	
⑩ ^T	Connector Flange	Carbon Steel	—	A105	
⑪ ^T	Snap Ring	Carbon Steel	SWRH57	AISI1055	
⑫ ^{MT}	Outer Connector Gasket	Graphite/Stainless Steel	-/SUS304	-/AISI304	
⑬ ^{MT}	Inner Connector Gasket	Graphite/Stainless Steel	-/SUS304	-/AISI304	
⑭	Connector Body	Cast Stainless Steel	—	A351 Gr.CF8	
⑮	Screen inside/outside	Stainless Steel	SUS304/430	AISI304/430	
⑯ ^M	Screen Holder Gasket	Stainless Steel	SUS316L	AISI316L	
⑰	Screen Holder	Cast Stainless Steel	—	A351 Gr.CF8	
⑱ ^T	Connector Bolt**	Alloy Steel	SNB7	A193 Gr.B7	
⑲	Connector Nameplate	Stainless Steel	SUS304	AISI304	
⑳	Flange**	15, 20 mm	Cast Stainless Steel	—	A351 Gr.CF8
		25 mm	Stainless Steel	SUS304	AISI304



* Equivalent ** Shown on reverse
Replacement kits available: (M) maintenance parts, (T) trap unit S3
Replacement parts for former connector body F32 differ from those for F46.

Dimensions

● FS3
Screwed

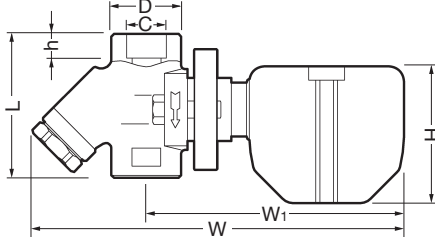


FS3 Screwed* (mm)

Size	L	φH	W	W ₁	Weight (kg)
15	80	77	204	140	1.7
20			206	144	
25	96		206	144	2.0

* (Rc)PT, other standards available

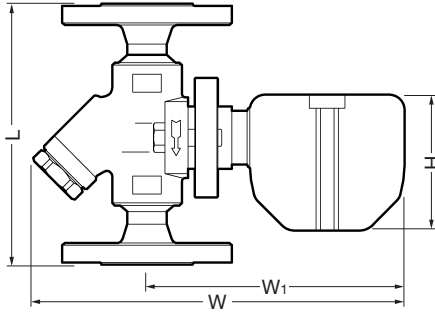
● FS3
Socket Welded



FS3 Socket Welded (mm)

Size	L	φH	W	W ₁	φC	φD	h	Weight (kg)
15	80	77	204	140	22.2	36	12	1.7
20					27.7		14	
25	96		206	144	34.5	44		2.0

● FS3
Flanged



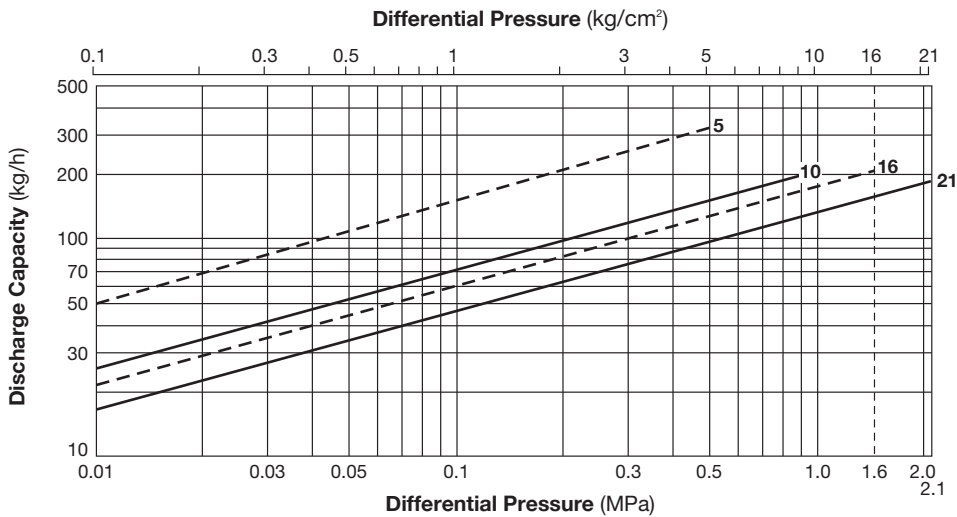
FS3 Flanged (mm)

Size	L		φH	W	W ₁	Weight* (kg)
	ASME Class					
	150RF	300RF				
15	150	150	77	205	140	3.2
20						4.6
25	160	160				

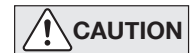
Other standards available, but length and weight may vary

* Weight is for Class 300 RF

Discharge Capacity



— Standard
- - - Available on request



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

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.

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

ISO 9001
ISO 14001

