



FREE FLOAT STEAM TRAP

MODEL FS3 QuickTrap®

UNIVERSAL FREE FLOAT TRAP WITH THERMOSTATIC AIR VENTING

Features

Inline replaceable 2-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. Unique free float design eliminates concentrated wear ensuring long reliable life.
4. Three-point seating provides steam-tight seal even under no-load conditions.
5. Trap incorporates thermostatic air vent for fast start-up.
6. 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.		0.5, 1.0, 1.6, 2.1		
Maximum Operating Pressure (MPaG)	PMO	0.5, 1.0, 1.6, 2.1		
Maximum Differential Pressure (MPaG)	ΔPMX	0.5, 1.0, 1.6, 2.1		
Minimum Operating Pressure (MPaG)		0.01		
Maximum Operating Temperature (°C)	TMO	350		

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS):

Maximum Allowable Pressure (MPaG) PMA: 2.1

Maximum Allowable Temperature (°C) TMA: 350

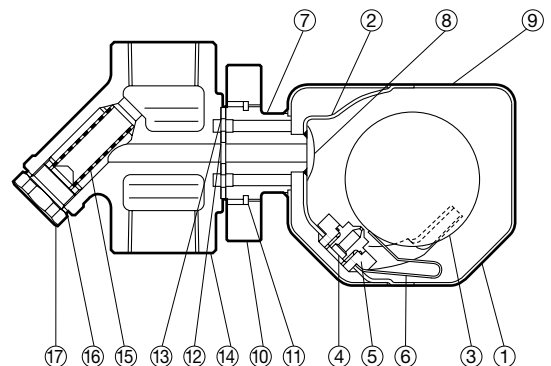
1 MPa = 10.197 kg/cm²



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	Trap Body	Stainless Steel	SUS316L	AISI316L
②	Inner Cover	Stainless Steel	SUS316L	AISI316L
③	Float	Stainless Steel	SUS316L	AISI316L
④	Orifice	Stainless Steel	SUS420F	AISI420F
⑤	Float Guide	Cast Stainl. Stl.	SCS16	A351 Gr. CF3M
⑥	Air Vent Strip	Bimetal	—	—
⑦	Connector Joint	Stainless Steel	SUS304	AISI304
⑧	Trap Screen	Stainless Steel	SUS304	AISI304
⑨	Name Plate	Stainless Steel	SUS304	AISI304
⑩	Connector Flange	Carbon Steel***	—	A105
⑪	Snap Ring	Carbon Steel***	SWRH57	AISI1055
⑫	Outer Connector Gasket	Stainl. Stl./Graphite	SUS304	AISI304
⑬	Inner Connector Gasket	Stainless Steel	SUS304	AISI304
⑭	Connector Body	Cast Stainl. Stl.	SCS13A	A351 Gr. CF8
⑮	Screen outside/inside	Stainless Steel	SUS430/304	AISI430/304
⑯	Holder Gasket	Soft Iron	SUYP	AISI1010
⑰	Screen Holder	Carbon Steel	—	A105
⑱	Connector Bolt**	Alloy Steel	SNB7	A193 Gr. B7
⑲	Flange	Stainless Steel	SUS304	AISI304

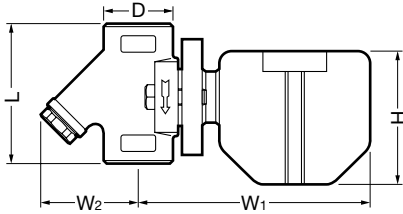
* Equivalent ** Shown on reverse



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Dimensions

● **FS3**
Screwed

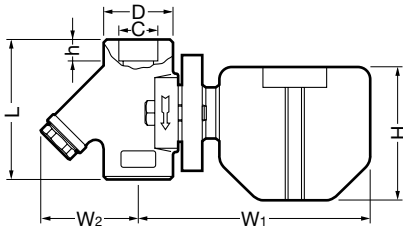


FS3 Screwed* (mm)

Size	L	D	φ H	W ₁	W ₂	Weight (kg)
15	80	39	76	140	56	1.7
20						
25	96	46		144	75	2

* (Rc)PT, other standards available

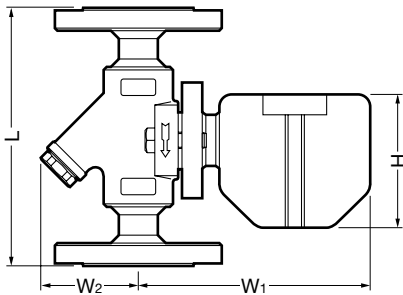
● **FS3**
Socket Welded



FS3 Socket Welded (mm)

Size	L	φ C	φ D	h	φ H	W ₁	W ₂	Weight (kg)
15	80	22.2	37	12	76	140	56	1.7
20		27.7		14				
25	96	34.5	46			144	75	2

● **FS3**
Flanged



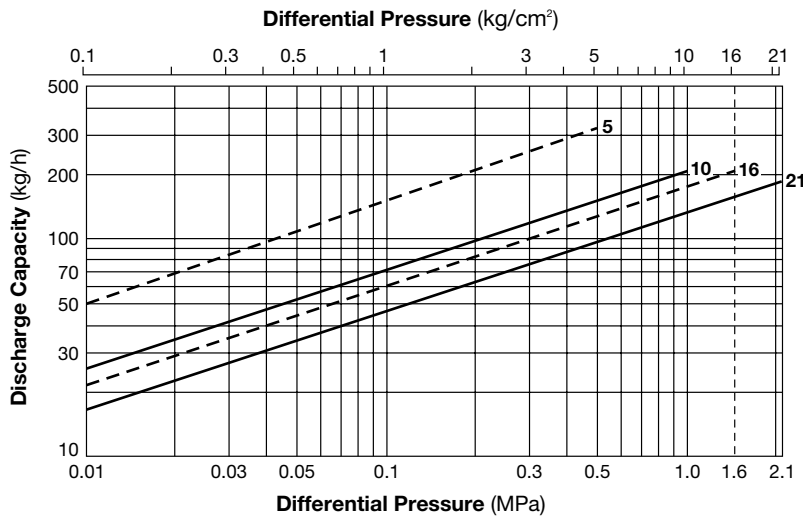
FS3 Flanged (mm)

Size	L (ASME Class)		φ H	W ₁	W ₂	Weight * (approx. kg)
	150RF	300RF				
15	150	150	76	140	56	2.7 (3.2)
20						
25	160	160				3.6 (4.6)

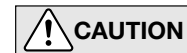
Other standards available, but length and weight may vary

*() ASME Class 300

Discharge Capacity



— Standard
- - - Available on request



DO NOT use traps 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

