

FT 10 Ball Float Steam Trap

Available types

- FT 10 – TV side connection or vent
- FT 10 – SLR with steam lock release
- FT 10 – C and C Combined TV and SLR T₆, T₈ and T only

Operating conditions (ISO 520)

Maximum operating conditions

PMO – Max. operating pressure

TMO – Max. operating temperature

	PMO	TMO
FT 10-40	4.0 bar 58 psi	150°C 302°F
FT 10-20	1.0 bar 145 psi	150°C 302°F
FT 10-14	1.4 bar 203 psi	150°C 302°F

Maximum body design conditions: P₆ 25.7 bar T₆ 1 P₈ 18.1 bar T₈ 2

PMA – Max. allowable pressure 28 bar 405 psi 16 bar 230 psi

TMA – Max. allowable temp. 300°C 572°F 300°C 572°F

Cold hydraulic test 28 bar 405 psi 24 bar 348 psi

Size and pipe connections

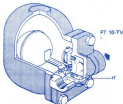
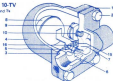
T₆, T₈, T₁₀ and T₂ Standard tap ISO 21 parallel or A/F

Materials

1	Body	1/2, T ₆ , T ₈	Cast Iron	200 1800 000 40
		1/2, T ₂	Cast Iron	200 1800 000 20
2	Cover Bolt	1/2, T ₆ , T ₈	Steel	95 3693 00 610
	Cover Bolt fit nuts	1/2, T ₆ , T ₈	M8 x 30 mm	
		1/2, T ₂	M8 x 30 mm	95 3693 00 610
		T ₂	M8 x 30 mm	
3	Cover Gasket	1/2, T ₆ , T ₈ , T ₁₀	Compressed Asbestos Fibre	85 2815 00 4
4	Cover	1/2, T ₆ , T ₈	Cast Iron	200 1800 000 40
		1/2, T ₂	Cast Iron	200 1800 000 20
5	Valve Seat	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 370 00 320
	Main Valve Assembly with Scoop Deflector	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 1449 004 310
		T ₂	Stainless Steel	95 1449 004 311
6	Valve Seat Gasket	1/2, T ₆ , T ₈ , T ₁₀	Compressed Asbestos Fibre	85 2815 00 4
		T ₂	Compressed Asbestos Fibre	85 2815 00 4
7	Float Frame Assembly	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 1449 004 310
	Ball Screws	1/2, T ₆ , T ₈ , T ₁₀	M8 x 30 mm	
	Main Valve Assembly	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 1449 004 310
	Balls	1/2, T ₆ , T ₈ , T ₁₀	M8 x 30 mm	95 8128 00 800
	Shafts & Nuts 2	1/2, T ₆ , T ₈ , T ₁₀	M8 x 30 mm	95 8128 00 800
8	Ball, Float & Lever	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 1449 004 310
9	Air Vent	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 1449 004 310
10	Air Vent Seal Gasket (T ₆ and T ₈ only)	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 1449 004 311
11	SLR Joint	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 370 00 320
12	SLR Joint Gasket	1/2, T ₆ , T ₈ , T ₁₀	MMA Steel	95 1449 004 310
13	SLR Seal	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 370 00 320
14	SLR Seal Gasket	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 1449 004 311
15	Support Frame	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 1449 004 310
16	Float Frame	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 1449 004 310
17	Scoop Deflector	1/2, T ₆ , T ₈ , T ₁₀	Stainless Steel	95 370 00 320

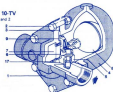
FT 10-TV

T₆ and T₈



FT 10-TV

T₆ and T₂



FT 10-SLR

FT 10-C

Local regulation may restrict the use of this product below the conditions stated. PMO and TMO figures refer to standard connections only. In the interests of development and improvement of the product, we reserve the right to change the specification.

FT 10 Ball Float Steam Trap

Dimensions (approximated in millimeters & inches)

Size	A	B	C	D	E	F	G	Weight
150	51	54	54	138	113	189	4	4 kg
75	4.7	2.1	2.1	8.8	4.2	8.7	2	2 lb
50	3.0	1.4	1.4	5.4	2.6	5.5	1	1 kg
25	1.5	0.7	0.7	2.7	1.3	2.7	0.5	0.5 lb
1	4.1	1.9	1.9	10.0	5.0	10.0	0.8	0.8 kg
	0.16	0.07	0.07	0.39	0.20	0.39	0.03	0.03 lb
1 1/2	2.0	0.8	0.8	5.0	2.5	5.0	0.4	0.4 kg
	0.08	0.03	0.03	0.20	0.10	0.20	0.01	0.01 lb
2	3.0	1.2	1.2	7.5	3.8	7.5	0.6	0.6 kg
	0.12	0.05	0.05	0.30	0.15	0.30	0.01	0.01 lb



Size 75, 75 and 1

Unithermal
Design



Size 1 1/2 and 2

Spare parts

The spare parts available are shown in heavy outline. Parts shown in broken line are not supplied as spares.

AVAILABLE SPARE

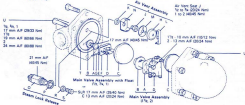
Main Valve Assembly with Float (No. 75, 75, 1)	4.833.012.0
Main Valve Assembly with	
Steam Deflector (75, 1)	4.832
Air Vent Assembly	4.832.015.0
Steam Lock Release Unit (size 1, 1 1/2 or 2) unit	4.832.0
Free Complete Set of	
Gaskets (75, 1) 2 sets	8.832.01
Set of Cover Gaskets (size 1, 1 1/2, 2)	1
Set of Cover Bolts and Nuts (size 1, 1 1/2, 2)	1

The steam deflector on the 1 is pressed into the body during manufacture and not available as a spare.

How to Order

Always quote spares by using the description given in the column headed Available Spares and stating the size and type of trap.

Example 1 — Air Vent Assembly for 2 SPRAXS SARCO FT 10 Steam Trap.



Optional extras

Drain-back fitting: The cover can be drilled and tapped for top or API to enable a drain back to be fitted.

Installation

The trap must be fitted with the float arm in a horizontal plane so that it rises and falls vertically with the direction of flow as indicated on the body.

How to specify

1 — 10 bar SPRAXS SARCO FT 10/14 TV Steam Trap with 80 bar body and cover, with thermostatic air vent.

FT 14 Ball Float Steam Trap

Description

The FT 14 is an I.S. ball float operated steam trap with integral automatic air venting feature.

It is available with horizontal connections with flow from right to left (FT14 (R-L)) from left to right (FT14 (L-R)) or with vertical connections with flow downwards (FT14 (V)).

As an alternative the automatic air vent can be replaced with a manual needle valve which can be used as a steam-lock release (S.L.R.).

Limiting Conditions ISO 9903

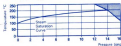
Basic design conditions (1 bar)

PMAX - Max. allowable pressure 16 barg

TMAX - Max. allowable temperature 280°C

Cold hydraulic test pressure 24 barg

Operating range



☞ The product must not be used in the region:

(Dotted) - Area differential pressure

	ΔPmax
FT14 - 4.0	4.0 bar
FT14 - 10	10 bar
FT14 - 14	14 bar

Size and pipe connections

10 and 16

Dimensions ISO 9903-02 21 parallel to ISO

Materials

No.	Part	Material	
1	Case	SS 316	041 1860 000 00
2	Cover Bolt	Steel	00 3002 01 01
3	Cover Gasket	Stainless Steel Graphite/Fluor	00 3010 00
4	Ball	SS 316	041 1860 000 00
5	Main Valve Seat	Stainless Steel	00 3410 01 00
7	Main Valve Seat Gasket	Stainless Steel	00 1448 004 01
6	Main Valve Assembly Gasket	Stainless Steel	00 3108 01 02 01
10	Ball Float In Lower	Stainless Steel	00 1448 004 01
11	Air Vent Assembly	Stainless Steel	
12	S.L.R. Unit	Stainless Steel	00 3110 001 01
13	S.L.R. Unit Gasket	Stainless Steel	00 1448 004 01
14	S.L.R. Seat	Stainless Steel	00 3110 001 01
15	Needle Valve	Stainless Steel	00 1448 004 01
16	S.L.R. Seat	Graphite	

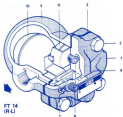
Installation

The trap must be fitted with the float arm in a horizontal plane so that float arm and ball vertically. Therefore the arrow on the trap must point downwards. Traps can be supplied with vertical connections with the flow from top (180°) bottom or horizontal connections with the flow right to left or left to right. Unless specified, a right to left flow will be supplied.

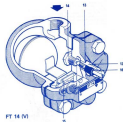
How to specify

1 - 10 (16) mm ISO FT14 - 4.0 (R-L) Steam Trap ISO

Local regulations may restrict the use of this product in certain conditions specified. In the interests of development and improvement of the product, we reserve the right to change the specification.



FT 14 (R-L)



FT 14 (V)

FT 14 Ball Float Steam Trap

Spare parts

The spare parts available are shown in heavy outline. Parts shown in outline are not included in orders.

Description (GHS)	
Main Valve Assembly with Float	4.833.01.000.012
Air Vent Assembly	4.1.000.01
Steam Lock Release Unit	3.000.01
Cover Gasket (Kit of 8)	
Kit of Cover Bolts (Kit of 8)	

How to Order

Always order spares by using the description given in the column headed Available Spares and stating the size and type of trap.

Example 1 - Air Vent Assembly for 7/8" Spiral Steam FT 14 Steam Trap.

How to Re-Install

With suitable accessory, traps can be carried out with the top in the line. When re-assembling it is advisable to make sure that all joint faces are clean.

How to Fit Main Valve Assembly

Lock cover bolts (L) and lift off cover.

Remove complete float assembly by undoing the two screws (B). Remove main valve seat (A) and replace with a new one supplied with new gasket (E).

Fit complete new float assembly by tightening the assembly on screws (B). Refit cover using new gasket (E).

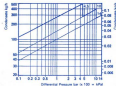
How to Fit Air Vent Assembly

Remove spring clip (L), stem (H) and spacer plate (M). Unratchet seat. Fit new gasket. Refit air vent assembly spacer plate, H stem and clip. Align complete air vent horizontally so that the frame clears the cover.

Recommended tightening torques -

Main Valve Seat (B) 11mm A/F 85Nm
Main Valve Assembly Screws (B) Phillips 2.00 Nm
Air Vent Seat (L) 11mm A/F 20Nm
Steam Lock Release unit (D) 11mm A/F 20Nm
Steam Lock Release Bolt (G) 11mm A/F 20Nm
Cover Bolts (L) 11mm A/F 20Nm

Capacities



Dimensions (approximate in millimetres)

Size	A	B	C	D	E	F	Weight (kg)
1/2"	12	107	21	140	100	21	2.0
3/4"	12	127	21	157	100	21	2.5

