

ISO 9001

spirax sarco FTGS14

TI-P145-11

ST Issue 5

Ball Float Steam Trap (Screwed)

DescriptionThe FTGS14 ball float steam trap has an austenitic stainless steel body, stainless steel working internals and integral automatic air venting facility. The SG iron cover is electroless nickel-plated offering increased resistance to erosion. This trap is supplied with horizontal screwed connections and can be maintained without disturbing the pipework.

Available options

FTGS14 (R-L) Horizontal connections with flow from right to left

FTGS14 (L-R) Horizontal connections with flow from left to right

The BP99/32 capsule which is used in the FTGS14 is suitable for use on 150°C superheat @ 0 bar g and 50°C superheat @ 32 bar g.

Optional extras

A manually adjustable needle valve (designated 'C' the nomenclature i.e. FTGS14-C) can be fitted to the trap. This option provides a steam lock release (SLR) feature in addition to the standard air vent. For further information please consult Spirax Sarco.

An **integral strainer screen** (designated 'X' on the nomenclature i.e. **FTGS14X**) can be fitted to the trap. For further information please consult Spirax Sarco.

Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 97/23/EC.

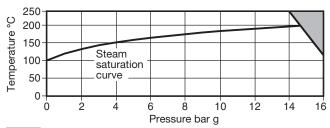
Certification

This product is available with a manufacturers Typical Test Report. Note: All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections

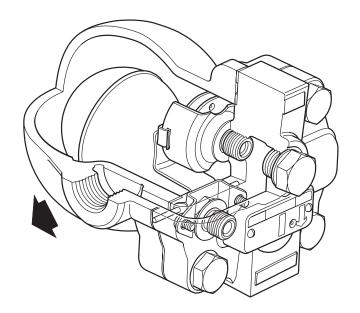
1/2", 3/4" and 1" screwed BSP and NPT.

Pressure/temperature limits (ISO 6552)

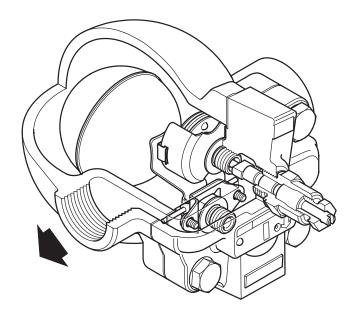


The product **must not** be used in this region.

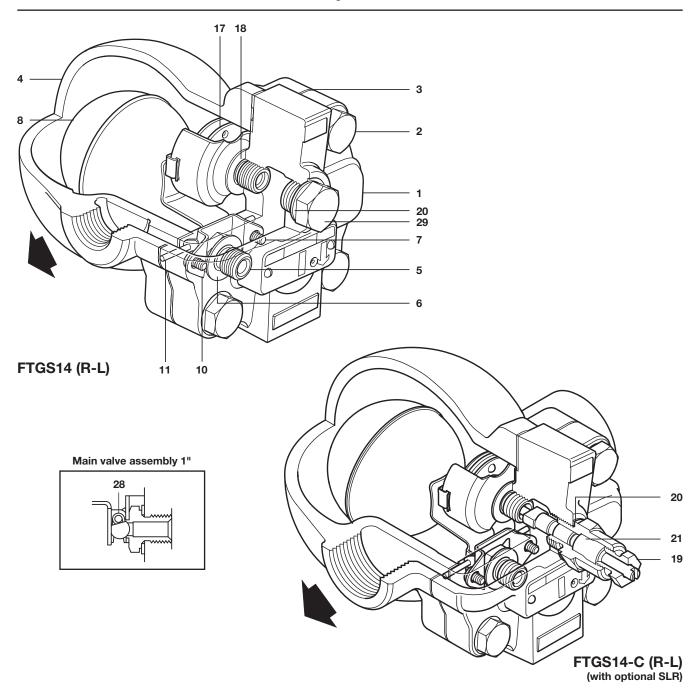
Body d	esign conditions	PN16			
PMA	Maximum allowable pre	ssure	16 bar g @ 120°C		
TMA	Maximum allowable ten	nperature	250°C		
Minimu	m allowable temperature	-10°C			
PMO	Maximum operating pre for saturated steam se	14.6 bar g			
TMO	Maximum operating ten	250°C @ 13.8 bar g			
Minimum operating temperature					
	Maximum	FTGS14-4.5	4.5 bar		
Δ PMX	differential	FTGS14-10	10 bar		
	pressure	FTGS14-14	14 bar		
Designed for a maximum cold hydraulic test pressure of 24 bar g					



FTGS14 (R-L)



FTGS14-C (R-L) (with optional SLR)



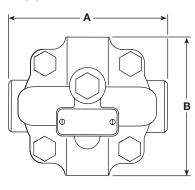
Materials

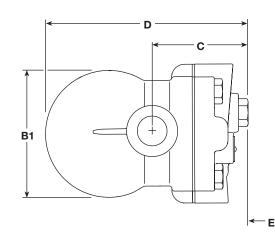
No.	Part	Material	
1	Body	Austenitic stainless steel	EN 10213-4 (1.4308) ASTM A351 CF8
2	Cover bolts	Steel	
3	Cover gasket	Reinforced exfoliated graphite	
4	Cover	Electroless nickel plated SG iron	DIN 1693 GGG 40
5	Valve seat	Stainless steel	
6	Valve seat gasket	Stainless steel	
7	Pivot frame assembly screws	Stainless steel	
8	Ball float and lever	Stainless steel	
10	Pivot frame	Stainless steel	
11	Pivot pin	Stainless steel	
17	Air vent assembly	Stainless steel	
18	Air vent seat gasket	Stainless steel	
19	SLR assembly	Stainless steel	
20	SLR gasket	Stainless steel	
21	SLR seal	Graphite	
28	Valve spring (1" only)	Stainless steel	
29	Body plug	Stainless steel	

Dimensions/weights (approximate) in mm and kg

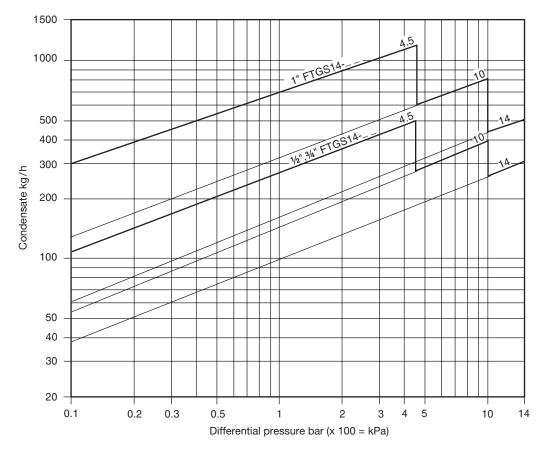
Size	Α	В	B1	С	D Wi	E ithdrawal distan	F F	Weight
½" and ¾"	123	107	96	80	160	120	38	3.4
1"	145	117	117	70	162	120	38	4.6

FTGS14





Capacities



Additional cold water capacities from the thermostatic air vent under start-up conditions

Capacities shown above are based on condensate at saturation temperature. Under start-up conditions when the condensate is cold the internal thermostatic air vent will be open and provides additional capacity to the main valve. The following table gives the minimum additional cold water capacities from the air vent.

ΔP (bar)	0.5	1	2	3	4.5	7	10	14
	Minimum additional cold water capacity (kg/h)							
½" and ¾"	70	140	250	380	560	870	1 130	1500
1"	120	240	360	500	640	920	1 220	1500

FTGS14-C

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P145-12) supplied with the product.

Installation note:

The FTGS14 must be installed with the direction of flow as indicated on the body, and with the float arm in a horizontal plain so that it rises and falls vertically. If required the flow orientation can be changed on site by simply rotating the cover through 180°, therefore the arrow on the name-plate must point downwards.

Disposal

This product is recyclable. No ecological hazard is anticipated with the disposal of this product providing due care is taken.

How to order

Example: 1 off Spirax Sarco ½" FTGS14-4.5 (L-R) ball float steam trap with screwed BSP connections and integral air vent.

Spare parts

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

Available spares

Maintenance kit	3, 5, 6, 7 (2 off), 8, 10, 11 17, 18, 28 (1" only)
Main valve assembly with float	3, 5, 6, 7 (2 off), 8, 10, 11, 28 (1" only)
Air vent assembly	3, 17, 18
Manually adjustable needle valve (FTG	S14-C only) 19 + 21, 20
Cover gasket (packet of 3)	3
Gasket and plug	20, 29

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size, type of trap and pressure range.

Example: 1 - Main valve assembly for a Spirax Sarco ½" FTGS14-10 ball float steam trap.

Recommended tightening torques

Item		Ó	or mm		N m
2		17 A/F		M10 x 30	47 - 50
5		17 A/F			50 - 55
7		Pozidrive		M4 x 6	2.5 - 3.0
17		17 A/F			50 - 55
19	SLR body	19 A/F			57 - 63
10	SLR gland nut	13 A/F			3 - 5
29	-	19 A/F		M14 x 1.5	57 - 63

