



Cert. No. LRQ 0963008

ISO 9001

# spirax sarco

## IFT14

### Ball Float Steam Trap with Integral Spiratec Sensor

TI-P615-01  
ST Issue 6



CHRYSsafidis

#### Description

The IFT14 is an SG iron bodied ball float steam trap having stainless steel working internals, integral Spiratec sensor and automatic air venting facility. It can be supplied with either a WLS1 sensor to detect waterlogging and steam leakage or a SS1 sensor for steam leakage only. The IFT14 is supplied with horizontal connections, having flow from right to left (R - L), and can be simply integrated into all existing Spiratec monitoring systems.

#### Capsule

The BP99/32 capsule which is used in the FT14 is suitable for use on 150°C superheat @ 0 bar g and 50°C superheat @ 32 bar g.

#### Standards

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

#### Certification

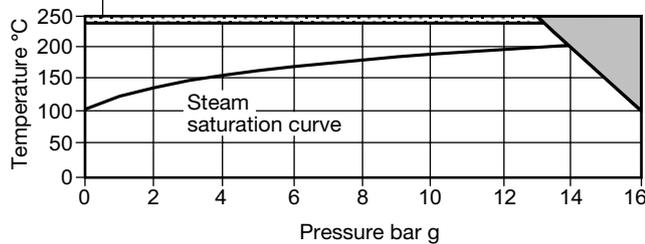
This product is available with a manufacturers' Typical Test Report. **Note:** All certification/inspection requirements must be stated at the time of order placement.

#### Sizes and pipe connections

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

#### Pressure/temperature limits (ISO 6552)

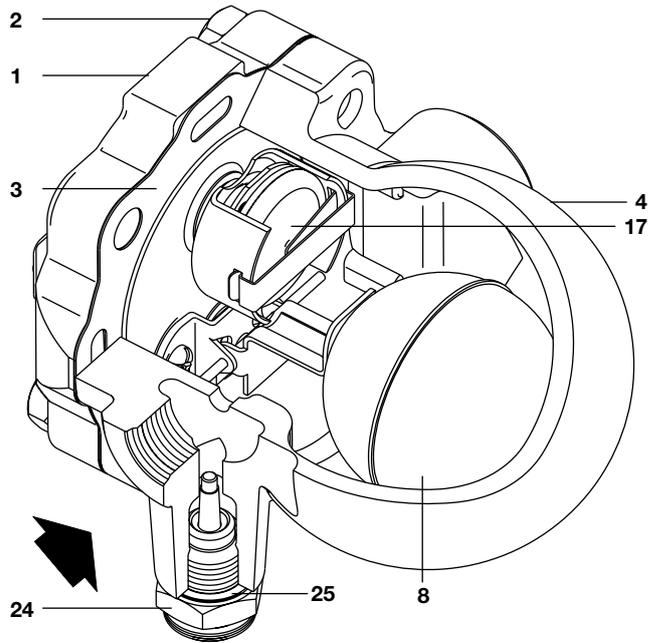
 The product should not be used in this region due to the limitations of the sensor.



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

Body design conditions		PN16
PMA	Maximum allowable pressure	16 bar g @ 100°C
TMA	Maximum allowable temperature	250°C @ 13 bar g
Minimum allowable temperature		-10°C
PMO	Maximum operating pressure for saturated steam service	14 bar g
TMO	Maximum operating temperature	240°C @ 13 bar g
Minimum operating temperature		0°C
	Maximum differential pressure	IFT14-4.5 4.5 bar
	IFT14-10	10 bar
	IFT14-14	14 bar

Designed for a maximum cold hydraulic test pressure of 24 bar g



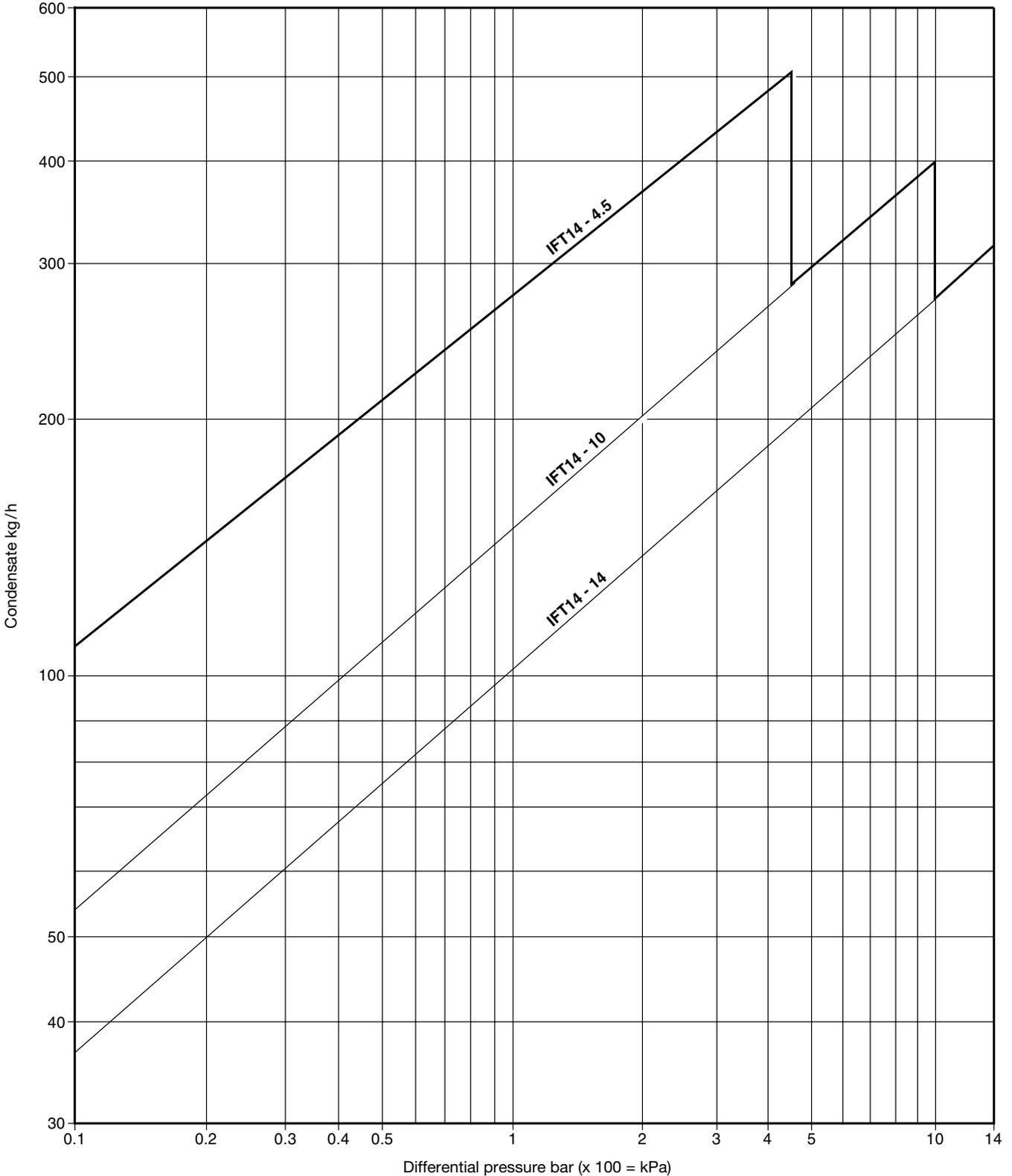
#### Materials

No.	Part	Material
1	Body	SG iron DIN 1693 GGG 40
2	Cover bolts	Steel BS 3692 Gr. 8.8
3	Cover gasket	Stainless steel reinforced exfoliated graphite
4	Cover	SG iron DIN 1693 GGG 40
* 5	Valve seat	Stainless steel BS 970 431 S29
* 6	Valve seat gasket	Stainless steel BS 1449 304 S11
* 7	Pivot frame assembly screws	Stainless steel BS 6105 CI A2-70
8	Ball float and lever	Stainless steel BS 1449 304 S16
* 10	Pivot frame	Stainless steel BS 1449 304 S16
* 11	Pivot pin	Stainless steel
17	Air vent assembly	Stainless steel
* 18	Air vent seat gasket	Stainless steel BS 1449 304 S11
24	Sensor	Stainless steel BS 1449 304 S16
25	Sensor gasket	Stainless steel BS 1449 304 S16
27	Blanking plug (not shown)	Steel

\* **Note:** Items 5, 6, 7, 10, 11 and 18 are shown more clearly overleaf.



**Capacities**



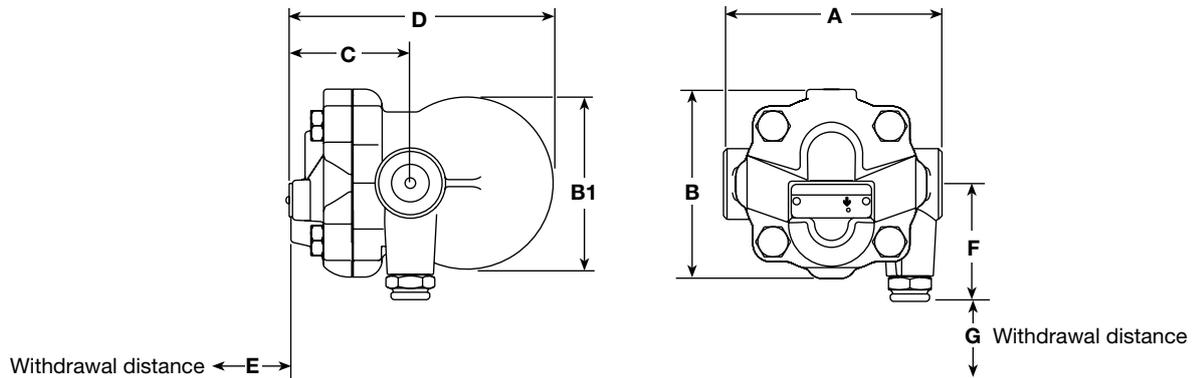
**Additional cold water capacities from the thermostatic air vent under start-up conditions**

Capacities shown above are based on condensate at saturation temperature. When discharging sub-cooled condensate the air vent provides extra capacity. 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. On the IFT14-4.5 units, this will provide a minimum of 50% increased capacity above the hot condensate figures shown. On the IFT14-10 and IFT14-14 units there will be a minimum increase of 100% on the published capacity. The following table gives the minimum additional cold water capacities from the air vent.

$\Delta P$ (bar)	0.5	1	2	3	4.5	7	10	14
<b>Minimum additional cold water capacity (kg/h)</b>								
1/2" and 3/4"	70	140	250	380	560	870	1130	1500

**Dimensions / weights (approximate) in mm and kg**

Size	A	B	B1	C	D	E	F	G	Weight
½"	122.5	107	96	67	147	105	66	33	2.9
¾"	122.5	107	96	67	147	105	66	33	2.9

**Safety information, installation and maintenance**

For full details see the Installation and Maintenance Instructions (IM-F01-30) supplied with the product.

**Installation note:**

The IFT14 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. It is recommended that a strainer, with a screen having 0.8 mm perforations, is installed upstream of the unit to ensure adequate removal of dirt from the steam system.

**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" IFT14-4.5 ball float steam trap with screwed BSP connections having either an integral sensor to identify waterlogging and steam wastage (WLSI sensor) or for steam leakage only (SSI sensor). Sensors to be compatible with Spiratec indicators, automatic monitors and test points:

- R1 (single trap) remote test point,
- R12 (12 trap) remote test point,
- Type 30 hand held indicator,
- R16C (16 traps) automatic steam trap monitor with PNP/NPN output where appropriate.

**Spare parts**

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

**Available spares**

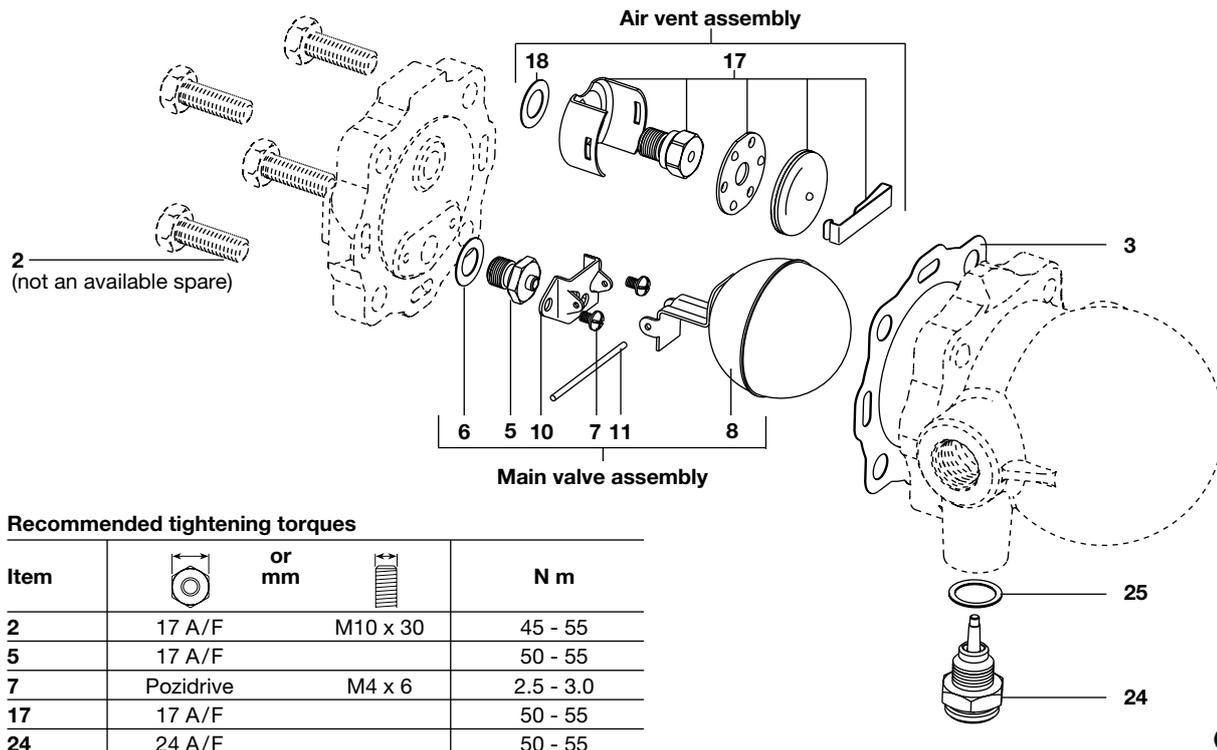
Main valve assembly with float	<b>3, 5, 6, 7 (2 off), 8, 10, 11</b>
Air vent assembly	<b>3, 17, 18</b>
Cover gasket (packet of 3)	<b>3</b>
Sensor and sensor gasket	<b>24, 25</b>

**How to order spares**

Always order spare parts by using the description given in the column headed 'Available spares' and state the size, Model no. and pressure rating of the trap.

**Example:** 1 - Main valve assembly for a Spirax Sarco ½" IFT14-4.5 ball float steam trap with integral Spiratec sensor.

**Note:** The pressure range is either 4.5, 10 or 14 bar.

**Recommended tightening torques**

Item	 or mm		N m
2	17 A/F	M10 x 30	45 - 55
5	17 A/F		50 - 55
7	Pozidrive	M4 x 6	2.5 - 3.0
17	17 A/F		50 - 55
24	24 A/F		50 - 55