spirax sarco

TI-P005-05 CMGT Issue 6

Stainless Steel Balanced Pressure Thermostatic Steam Trap with Integral Spiratec Sensor

Description

The IBPS32 is a stainless steel maintainable balanced pressure thermostatic steam trap fitted with an integral Spiratec sensor and straight connections. It also has an integral 'Y' type strainer.

It can be supplied with a sensor to detect waterlogging and steam leakage (WLS1) or for steam leakage only (SS1).

The IBPS32 can be easily integrated into all existing Spiratec monitoring systems.

All pressure bearing components are produced by TÜV approved suppliers in accordance with AD-Merkblatt WO/TRD100.

Standard unit	IBPS32	having 'STD' fill capsule
Also available	IBPS32CV	having 'STD' fill capsule and check valve

Note: When placing an order always state capsule fill.

Capsule fill and operation:

Standard capsule - Is marked with 'STD' for operation at approximately 12 °C below steam saturation temperature.

Optionally - The capsule can be supplied for sub-cooled 'SUB' operation at approximately 24 °C below steam saturation temperature or near-to-steam 'NTS' operation at approximately 6 °C below steam temperature.

Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 2014/68/EU.

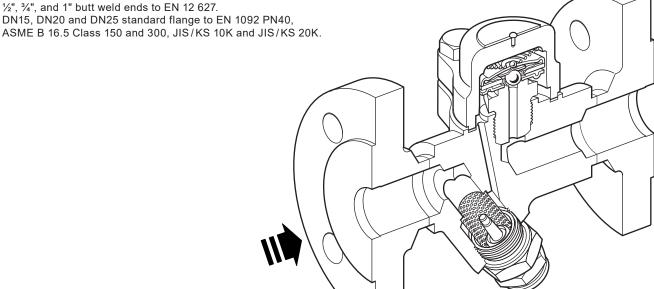
Certification

This product is available with certification to EN 10204 3.1

Note: All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections

 $\frac{1}{2}$ ", $\frac{3}{4}$ ", and 1" screwed BSP T Rp (ISO 7-1) or NPT. $\frac{1}{2}$ ", $\frac{3}{4}$ ", and 1" socket weld ends to BS 3799.



Pressure/temperature limits (ISO 6552)

Pressure psi g 464 145 725 290 435 580 400 752 Temperature °C 300 572 240 392 200 Steam 100 212 saturation curve В 32 0 10 40 50 20 30 32 Pressure bar g

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

The product should not be used in this region or beyond its operating range as damage to the internals may occur.

A - B Screwed, socket weld, butt weld and flanged ASME 300

A - C Flanged EN 1092 PN40

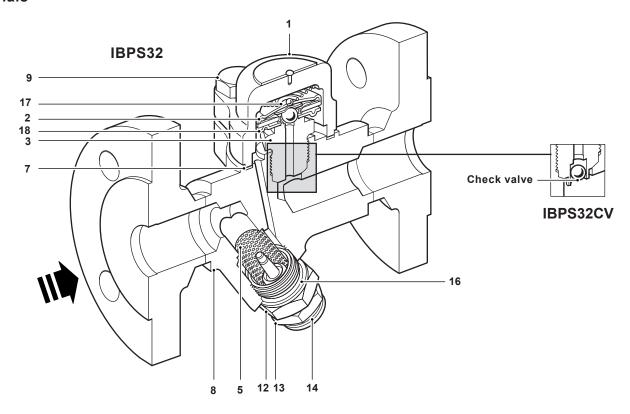
A - D Flanged JIS/KS 20K

A - E Flanged ASME 150

F-G Flanged JIS/KS 10K

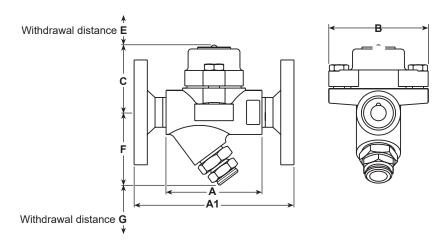
Maxim	num body design conditions		PN40
РМА	Maximum allowable pressure	50 bar g @ 50 °C	725 psi g @ 122 °F
TMA	Maximum allowable temperature	400 °C @ 30 bar g	752 °F @ 435 psi g
Minim	um allowable temperature	-200 °C	-328 °F
РМО	Maximum operating pressure for saturated steam service	32 bar g	464 psi g
ТМО	Maximum operating temperature	240 °C @ 32 bar g	°F @ psi g
	um operating temperature For lower operating temperatures consult Spirax Sarco	0 °C	32 °F
Desig	ned for a maximum cold hydraulic test pressure of	75 bar g	1 087 psi g

Materials



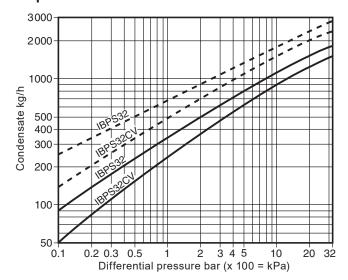
No.	Part	Material			
1	Cover	Austenitic stainless steel	EN 10222-5 1.4571 or ASTM A182 F316 T		
2	Capsule	Stainless steel			
3	Valve seat	Stainless steel	BS 970 431 S29		
5	Strainer screen	Stainless steel	AISI 304		
7	Cover gasket	Stainless steel reinforced exfoliated graphite			
8	Body/flanges	Austenitic stainless steel	EN 10222-5 1.457 or ASTM A182 F316 Ti		
9	Cover bolts	Stainless steel (M10 x 30)	A2-70		
12	Sensor adaptor	Stainless steel	DIN 17440 (W/S 1.4404) 316L		
13	Sensor gasket	Stainless steel	BS 1449 304 S16		
14	Sensor	Stainless steel	BS 1449 304 S16		
15	Blanking plug (not shown)	Stainless steel			
16	Adaptor gasket	Stainless steel	BS 1449 304 S16		
17	Spring	Stainless steel			
18	Spacer plate	Stainless steel			

Dimensions/weights (approximate) in mm (inches) and kg (lbs)



Size	Α	A1	В	С	E	F	G	Weight	
								Scrd/SW/BW	Flgd
½" DN15	95	150	94	64	37	63	28	1.65	3.15
	(3.74)	(5.9)	(3.7)	(2.51)	(1.45)	(2.48)	(1.10)	(3.63)	(6.94)
¾" DN20	95	150	94	64	37	64	28	1.65	3.75
	(3.74)	(5.9)	(3.7)	(2.51)	(1.45)	(2.51)	(1.10)	(3.63)	(8.26)
1" DN25	95	150	94	64	37	66	28	1.85	4.45
	(3.74)	(5.9)	(3.7)	(2.51)	(1.45)	(2.59)	(1.10)	(4.07)	(9.81)

Capacities



---- Cold water capacity

Hot water capacity

Safety information, installation and maintenance

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

Installation note:

The IBPS32 is designed for installation with the capsule in a horizontal plane with the cover at the top.

It is recommended that a non-return valve is fitted when discharging condensate into return lines where backpressure is experienced. It is also recommended that a diffuser is fitted when discharging to atmosphere.

For ease and maintenance, consideration should be given to fitting isolation valves upstream and downstream of the steam trap.

Disposal

The 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" IBPS32 stainless steel bodied maintainable balanced pressure thermostatic steam trap. Screwed BSP T Rp (ISO 7-1) with 'STD' fill capsule for operation at approximately 12 °C (53.6 °F) below steam saturation temperature. The trap will be supplied with an integral sensor to identify waterlogging and steam wastage (WLS1 sensor) or for steam leakage only (SS1 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 or R1C (single trap) automatic steam trap monitor with PNP/NPN output where appropriate.

Spare parts

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

Available spares

Capsule and seat assemb	2, 3, 17, 18	
Strainer screen Y-type cyli	5	
Set of cover gaskets	(packet of 3)	7
Sensor and sensor gasket	13, 14	
Adaptor gasket	(packet of 3)	16

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size, model number and

