

ISO 9001

spirax sarco

BPS32 and BPS32Y Stainless Steel

Balanced Pressure Thermostatic Steam Traps

Description

The BPS32 and BPS32Y are stainless steel maintainable balanced pressure thermostatic steam traps with straight connections. The BPS32 has an integral flat strainer screen and the BPS32Y an integral cylindrical Y-type strainer. All pressure bearing components are produced by TÜV approved suppliers in accordance with AD-Merkblatt WO/TRD100. Both traps are unaffected by waterhammer and are available as follows:-

Standard units	BPS32 and BPS32Y	having 'STD' fill capsule
Also available	BPS32CV and BPS32YCV	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.

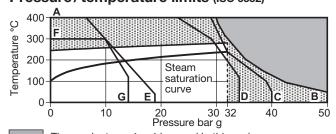
Optionally - The capsule can be supplied for sub-cooled '**SUB**' operation at approximately 24°C below steam saturation temperature or near-to-steam 'NTS' operation at approximately 6°C below steam temperature.

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

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
½", ¾", and 1" screwed BSP or NPT.
½", ¾", and 1" socket weld ends to BS 3799.
½", ¾", and 1" butt weld ends to EN 12 627.
DN15, DN20 and DN25 standard flange to EN 1092 PN40, ANSI B 16.5 Class 150 and 300, JIS/KS 10K and JIS/KS 20K.

Pressure/temperature limits (ISO 6552)

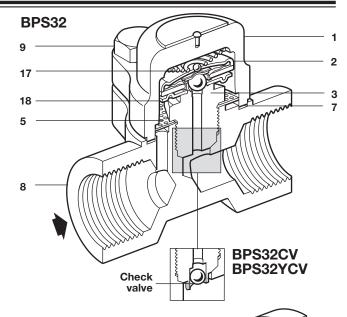


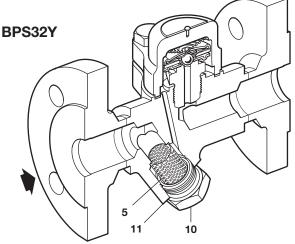
The product must not be used in this region.

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

- Screwed, socket weld, butt weld and flanged ANSI 300.
- Flanged EN 1092 PN40.
- A D Flanged JIS/KS 20K.
- Flanged ANSI 150.
- Flanged JIS/KS 10K

. ~	Tidinged bio/100 Tork.					
Body de	esign conditions	PN40				
PMA	Maximum allowable pressure	50 bar g @ 50°C				
TMA	Maximum allowable temperature	400°C @ 30 bar g				
Minimu	m allowable temperature	-200°C				
РМО	Maximum operating pressure for saturated steam service	32 bar g				
TMO	Maximum operating temperature	281°C @ 32 bar g				
Designed for a maximum cold hydraulic test pressure of 75 bar g						



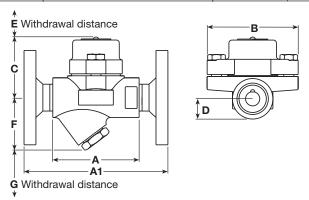


Materials

No	. Part	Material		
1	Cover	Austenitic stainless steel	DIN 17440	(W/S 1.4571) 316Ti
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 e	exfoliated graphite
8	Body/flanges	Austenitic stainless steel	DIN 17440	(W/S 1.4571) 316Ti
9	Cover bolts	Stainless steel	(M10 x 30)	A2-70
10	Strainer cap	Austenitic stainless steel	DIN 17440	(W/S 1.4404) 316L
11	Strainer cap gasket	Stainless steel		BS 1449 304 S16
17	Spring	Stainless steel		
18	Spacer plate	Stainless steel		

Dimensions/weights (approximate) in mm and kg BPS32

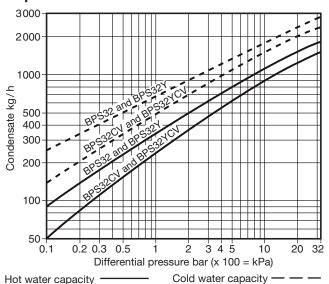
									Weight	
Size	Α	A1	В	С	D	Е	F	G	Scrd/SW/BW	Flgd
½" DN15	95	150	94	64	17	37	-	-	1.4	2.9
3/4" DN20	95	150	94	64	19	37	-	-	1.4	3.5
1" DN25	95	160	94	64	23	37	-	-	1.5	4.1



BPS32Y

									Weight	
Size	Α	A 1	В	С	D	Ε	F	G	Scrd/SW/BW	Flgd
½" DN15	95	150	94	64	-	37	55	28	1.6	3.1
34" DN20	95	150	94	64	-	37	56	28	1.6	3.7
1" DN25	95	160	94	64	-	37	58	28	1.8	4.4

Capacities



Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P005-04) supplied with the product.

Installation note:

The BPS32 and BPS32Y are designed for installation in any position, horizontal or vertical.

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

These products are recyclable. No ecological hazard is anticipated with the disposal of these products, providing due care is taken.

How to order

Example: 1 off DN20 Spirax Sarco BPS32Y balanced pressure thermostatic steam trap manufactured in corrosion resistant stainless steel. Having a Y-type strainer and 'STD' fill capsule for operation at approximately 12°C below steam saturation temperature. Flanged connections to EN 1092 PN40.

Spare parts

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

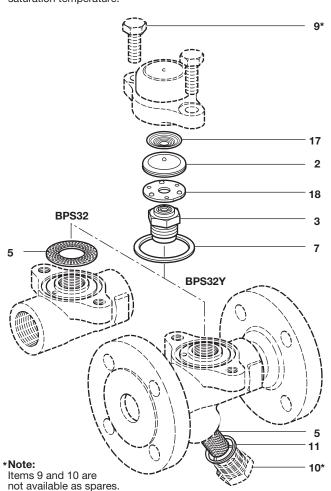
Available spares

Capsule and seat assembly	set		2, 3, 17, 18
Strainer screen	BPS32	(3 off)	5
Strainer screen and gasket	BPS32Y	(1 off each)	5, 11
Set of cover gaskets		(packet of 3)	7
Strainer cap gasket		(packet of 3)	11

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 capsule reference.

Example: 1 - Capsule and seat assembly set for a Spirax Sarco DN25 BPS32 - 'STD' fill capsule for operation at 12°C below steam saturation temperature.



Recommended tightening torques

Item Part or mm N m 3 Valve seat 24 A/F 115 - 125 9 Cover bolts 16 A/F M10 x 30 23 - 27 10 Strainer cap 27 A/F 120 - 135					
9 Cover bolts 16 A/F M10 x 30 23 - 27	Item	Part			N m
	3	Valve seat	24 A/F		115 - 125
10 Strainer cap 27 A/F 120 - 135	9	Cover bolts	16 A/F	M10 x 30	23 - 27
	10	Strainer cap	27 A/F		120 - 135