

Balanced Pressure Thermostatic Steam Traps

Description

The BPC32 and BPC32Y are carbon steel maintainable balanced pressure thermostatic steam traps with straight connections. The BPC32 has an integral flat strainer screen and the BPC32Y 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	BPC32 and BPC32Y	having 'STD' fill capsule
Also available	BPC32CV and BPC32YCV	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 97/23/EC.

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.

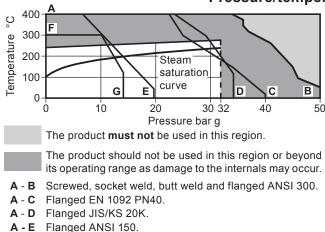
Sizes and pipe connections

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

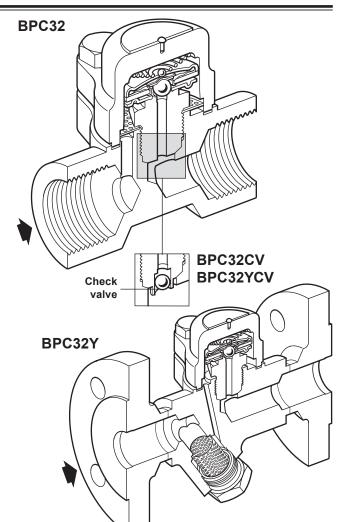
- $^{1}\!\!\!/_{2}$ ", $^{3}\!\!\!/_{4}$ ", and 1" socket weld ends to BS 3799.
- 1/2", 3/4", and 1" butt weld ends to EN 12 627.

DN15, DN20 and DN25 standard flange to EN 1092 PN40,

ASME B 16.5 Class 150 and 300, JIS/KS 10K and JIS/KS 20K.



F-G Flanged JIS/KS 10K.

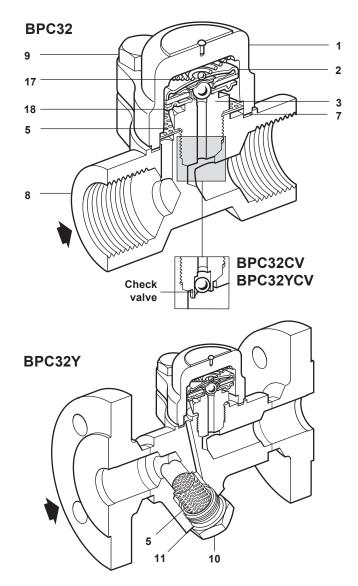


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Body	design conditions	PN40				
PMA	Maximum allowable pressure	50 bar g @ 50 °C				
ТМА	Maximum allowable temperature	400 °C @ 35 bar g				
Minim	um allowable temperature	-60 °C				
PMO	Maximum operating pressure 32 bar g @ 281 for saturated steam service					
тмо	Maximum operating temperature	281 °C @ 32 bar g				
Minimum operating temperature 0 °C Note: For lower operating temperatures consult Spirax Sarco.						
Designed for a maximum cold hydraulic test pressure of: 75 bar g						

Pressure/temperature limits (ISO 6552)

First for Steam Solutions



Materials

No.	Part	Material			
1	Cover	Carbon steel	DIN 17243 C22.8 (W/S 1.0460) ASTM A105N		
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	Carbon steel	DIN 17243 C22.8 (W/S 1.0460) ASTM A105N		
9	Cover bolts	Stainless steel (M10 x 30)	A2-70		
10	Strainer cap	Carbon steel	DIN 17243 C22.8 (W/S 1.0460) ASTM A105N		
11	Strainer cap gasket	Stainless steel	BS 1449 304 S16		
17	Spring	Stainless steel			
18	Spacer plate	Stainless steel			

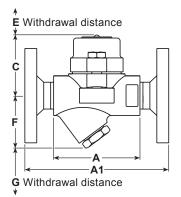


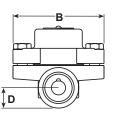
Dimensions/weights (approximate) in mm and kg BPC32

								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
¾" DN20	95	150	94	64	19	37	-	-	1.4	3.5
1" DN25	95	160	94	64	23	37	-	-	1.5	4.1

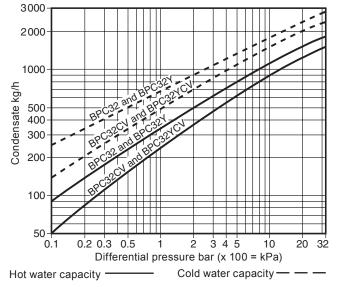
BPC32Y

							Weight			
Size	Α	A1	в	с	D	Е	F	G	Scrd/SW/BW	Flgd
1⁄2" DN15	95	150	94	64	-	37	54	28	1.6	3.1
¾" DN20	95	150	94	64	-	37	54	28	1.6	3.7
1" DN25	95	160	94	64	-	37	54	28	1.8	4.4





Capacities



Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P005-02) supplied with the product.

Installation note:

The BPC32 and BPC32Y 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 Spirax Sarco ¹/₂" BPC32 carbon steel bodied maintainable balanced pressure thermostatic steam trap. Screwed BSP with 'STD' fill capsule for operation at approximately 12 °C below steam saturation temperature.

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Spare parts

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

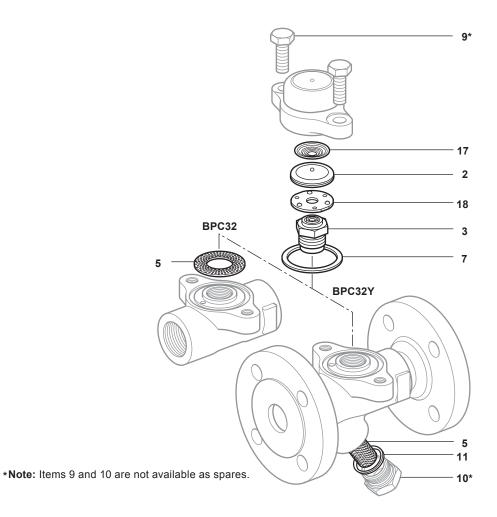
Available spares

Capsule and seat assembly se	et	2, 3, 17, 18	
Strainer screen	BPC32	(3 off)	5
Strainer screen and gasket	BPC32Y	(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 BPC32 - 'STD' fill capsule for operation at 12 °C below steam saturation temperature.



Recommended tightening torques

Item	Part		or m	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

