# ΘΕΡΜΟΣΤΑΤΙΚΕΣ ΑΤΜΟΠΑΓΙΔΕΣ

spirax

4005xxC 1/2



TI-P005-01 ST Issue 4



# **Carbon Steel Balanced Pressure Thermostatic Steam Traps**

**BPC32 and BPC32Y** 

*`sarco* 

#### 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<br>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

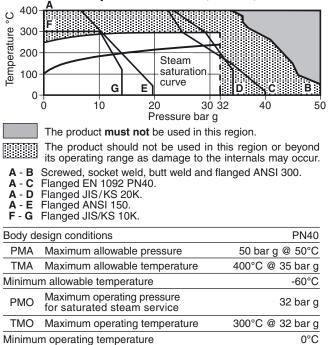
This product fully complies with the requirements of the European Pressure Equipment Directive 97/23/EC.

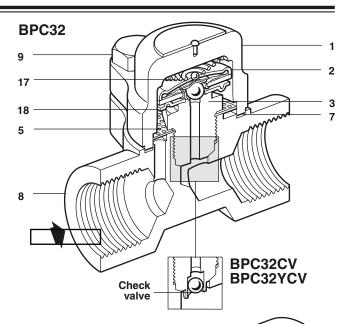
#### Certification

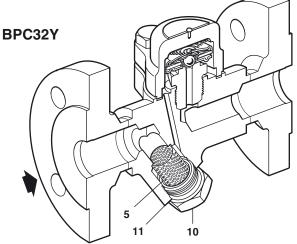
This product is available with certification to EN 10204 3.1. **Note:** All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections 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)







#### Materials

| No. | Part                   | Material          |  |
|-----|------------------------|-------------------|--|
| 1   | Cover                  | Carbon steel      | DIN 17243 C22.8<br>(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 r | einforced exfoliated graphite              |
| 8   | Body/flanges           | Carbon steel      | DIN 17243 C22.8<br>(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<br>(W/S 1.0460) ASTM A105N |
| 11  | Strainer cap<br>gasket | Stainless steel   | BS 1449 304 S16                            |
| 17  | Spring                 | Stainless steel   |  |
| 18  | Spacer plate           | Stainless steel   |  |

Local regulations may restrict the use of this product to below the conditions quoted.

Note: For lower operating temperatures consult Spirax Sarco Designed for a maximum cold hydraulic test pressure of 75 bar g

In the interests of development and improvement of the product, we reserve the right to change the specification without specification without notice.

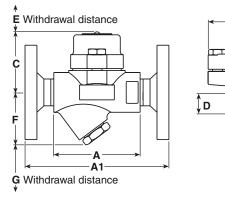
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### Dimensions/weights (approximate) in mm and kg BPC32

|           |    |            |    |    |    |    |   |   | Weight     |      |  |
|-----------|----|------------|----|----|----|----|---|---|------------|------|--|
| Size      | Α  | <b>A</b> 1 | 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  |  |

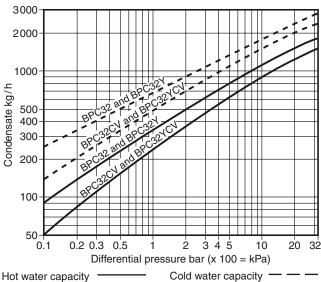
В



#### BPC32Y

|         |    |     |    |    |   |    |    |    | Weight     |      |  |
|---------|----|-----|----|----|---|----|----|----|------------|------|--|
| Size    | Α  | A1  | В  | С  | D | Е  | F  | G  | Scrd/SW/BW | Flgd |  |
| ½" DN15 | 95 | 150 | 94 | 64 | - | 37 | 55 | 28 | 1.6        | 3.1  |  |
| ¾" 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-P005-02) 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 <sup>1</sup>⁄<sub>2</sub>" 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.

# Spare parts

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

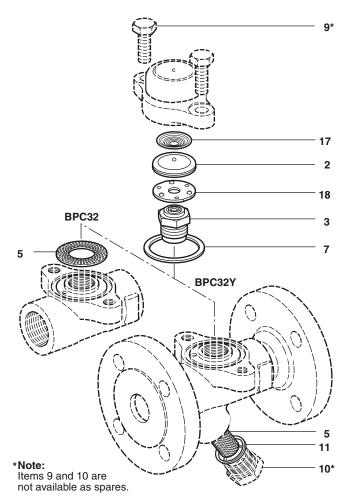
# Available spares

| Capsule and seat assembly  | 2, 3, 17, 18 |               |       |
|----------------------------|--------------|---------------|-------|
| Strainer screen            | 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**

|      |              | i ←→i or | -       |           |
|------|--------------|----------|---------|-----------|
| ltem | Part         | mm       |         | N m       |
| 3    | Valve seat   | 24 A/F   |         | 115 - 125 |
| 9    | Cover bolts  | 16 A/F M | 10 x 30 | 23 - 27   |
| 10   | Strainer cap | 27 A/F   |         | 120 - 135 |
| 10   | Strainer cap | 27 A/F   |         | 120 - 135 |



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