



spirax /sarco

Cert. No. LRQ 0963008

HP45 Bimetallic Steam Trap

Description

The Spirax Sarco HP45 bimetallic steam trap is made of forged steel, and designed for draining high pressure, high temperature steam lines and processes.

This steam trap is specially designed for HP steam and has a reinforced stainless steel insert within the body and can be repaired inline. It operates with no loss of steam, and quickly drains air, non-condensable gases and large quantities of cold water on start-up. Normally open in the event of failure, it has a built-in strainer screen and an external device for adjusting the discharge temperature of the condensate.

Standards

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

Certification

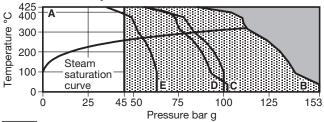
This product is available with certification to EN 10204 3.1. **Note:** All certification / inspection requirements must be stated at the time of order placement.

Sizes and pipe connections

 $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" screwed BSP/NPT, socket weld ends to ANSI B 16.11 and butt weld ends to ANSI B 16.25.

DN15, DN20 and DN25 Flanged PN63, PN100 and ANSI 600.

Pressure/temperature limits

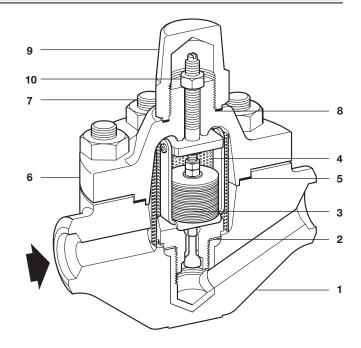


The product **must not** be used in this region.

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

- A B Screwed BSP/NPT, socket weld and butt weld ends.
- A C Flanged ANSI 600.
- A D Flanged PN100.
- A E Flanged PN63.

Body design conditions	PN150, Class 90	00 to ANSI B 16.34
PMA Maximum allowable	pressure	153 bar g @ 38°C
TMA Maximum allowable	temperature	425°C @ 86 bar g
Minimum allowable tempera	ture	0°C
PMO Maximum operating	pressure	45 bar g @ 425°C
TMO Maximum operating	temperature	425°C @ 45 bar g
Minimum operating tempera	ture	0°C
Note: For lower temperature	es consult Spirax Sa	arco.
Minimum inlet pressure for s	satisfactory operation	n 15 bar g
ΔPMX The backpressure for 90% of the upstream		n must not exceed
Designed for a maximum co	ld hydraulic test pre	essure of 229 bar g

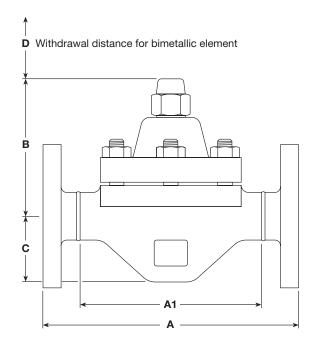


Materials

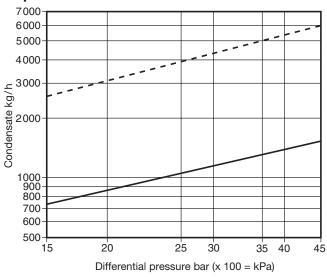
Waterials				
No	No. Part Material			
1	Body	Steel	ASTM A105N	
2	Valve seat gasket	Stainless steel	AISI 304	
3	Bimetallic element	Stainless steel		
4	Strainer screen	Stainless steel	AISI 304L	
5	Cover gasket	Spiral wound stainless steel and graphite (asbestos free)		
6	Cover	Steel	ASTM A105N	
7	Cover stud	Steel	ASTM A193 Gr. B7	
	Cover nut	Steel	ASTM A194 Gr. 2H	
8	Blind nut gasket	Stainless steel tanged reinforced graphite		
9	Blind nut	Steel	ASTM A105	
10	Lock-nut	Steel		

Dimensions/weights (approximate) in mm and kg

Size		Α	A1	В	С	D	Weight
1/2" 3/4"	1"	-	160	124	58	150	6.5
DN15	PN63/PN100	235	-	124	58	150	11.0
	ANSI 600	235	-	124	58	150	9.5
DN20	PN63/PN100	235	-	124	58	150	11.5
	ANSI 600	235	-	124	58	150	10.0
DN25	PN63/PN100	235	-	124	58	150	12.0
	ANSI 600	235	-	124	58	150	10.5



Capacities



Hot water capacity -Cold water capacity -

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P623-03) supplied with the product.

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" HP45 bimetallic steam trap with socket weld end connections.

Spare partsThe spare parts available are detailed below. No other parts are supplied as spares.

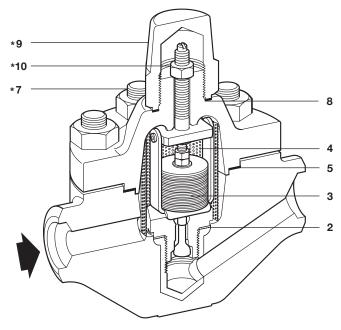
Available spare

Bimetallic assembly kit	2, 3, 4, 5, 8
Cover gasket (pack of 3)	5
Gasket set	2, 5, 8
Strainer screen	4

How to order spares

Always order spares by using the description given in the column headed 'Available spare' and state the size and model of the bimetallic steam trap.

Example: 1 - Bimetallic assembly kit for a Spirax Sarco 1" HP45 bimetallic steam trap.



* Items 7, 9 and 10 are not available spares.

Recommended tightening torques

Item		or	N m
3	36 A/F		120 - 132
7	22 A/F		70 - 77
9	29 A/F		80 - 88
10	13 A/F		5