

Cert. No. LRQ 0963008 ISO 9001

spirax sarco

S and SF Series **Cast Iron Inverted Bucket Steam Traps**

The S and SF series are a range of inverted bucket steam traps. The body and cover are constructed from cast iron and the complete unit is readily maintainable.

Available options

S series	In-line connections and integral strainer					
SF series	Integral flanged connections and integral strainer					

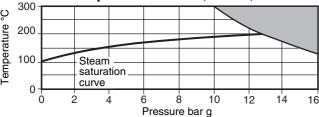
This product fully complies with the requirements of the European Pressure Equipment Directive 97/23/EC.

Certification

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

Sizes and pipe connections½" - SA, ¾" - SB, 1" - SC, 1½" - SD screwed BSP, ISO 7/1 Rp
DN15 - SFA, DN20 - SFB, DN25 - SFC, DN40 - SFD
Standard flange EN 1092 PN16 (UNI 2237 / 2229)

Pressure/temperature limits (ISO 6552)



The product must not be used in this region.

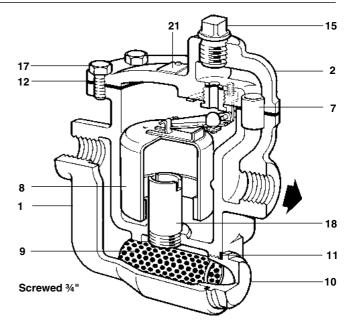
Body de	esign conditions	PN16
PMA	Maximum allowable pressure @ 120°C	16 bar g
TMA	Maximum allowable temperature @ 10 bar g	300°C
Minimu	m allowable temperature	-10°C
РМО	Maximum operating pressure for saturated steam service	13 bar g
TMO	Maximum operating temperature	300°C
Minimu	m operating temperature	0°C
ΔPMX	Maximum differential pressure	

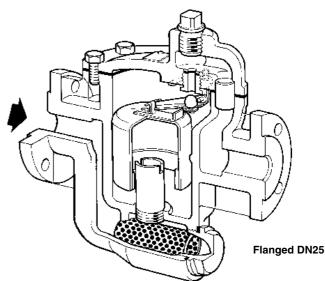
١	Screwed	4 bar	8 bar	12 bar	Fianged	4 bar	8 bar	12 bar
	1/2"	SA4	SA8	SA12	DN15	SFA4	SFA8	SFA12
					DN20			
	1"	SC4	SC8	SC12	DN25	SFC4	SFC8	SFC12
	11/2"	SD4	SD8	SD12	DN40	SFD4	SFD8	SFD12

Designed for a maximum cold hydraulic test pressure of 24 bar g

Materials

No.	Part	Material	
1	Body	Cast iron	DIN 1691 GG25
2	Cover	Cast iron	DIN 1691 GG25
* 3	Valve seat	Stainless steel	X30 Cr 13
* 4	Valve head	Stainless steel	X30 Cr 13
* 5	Valve lever	Stainless steel	BS 1449 304
* 6	Lever pivot	Stainless steel	BS 1449 304
7	Ferrule	Stainless steel	BS 3605 CF5 304 S14
8	Bucket	Stainless steel	BS 1449 304
9	Strainer screen	Stainless steel	ASTM A240 316L





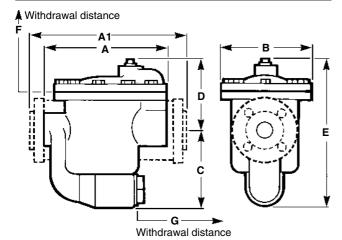
No.	Part	Material					
10	Strainer cap	Brass	BS EN CW617N				
11	Strainer gasket	Reinforced exfoliate	d graphite				
12	Cover gasket	Reinforced exfoliate	d graphite				
* 13	Valve seat gasket	Stainless steel	BS 1449 304				
* 14	Pivot pin	Stainless steel	BS 970 304 S15				
15	Top plug	Malleable iron					
* 16	Valve screw	Stainless steel	BS 6105 CI A2 70				
17	Cover bolts	Steel	BS 3692 Gr. 8.8				
18	Inlet tube 3/4", 1", 11/2"	Steel	BS 1387				
* 1 9	Starlock washer	Stainless steel					
* 20	Washer	Stainless steel					
21	Name-plate	Stainless steel	BS 1449 304				
Parts 3, 4, 5, 6, 13, 14, 16, 19 and 20 have been shown overleaf.							

Capacities

See TI-P077-03 for full details of capacities.

Dimensions / weights (approximate) in mm and kg Screwed connections

Size	Α	В	С	D	Е	F	G	Weight
1/2"	130	105	75	95	170	70	66	3.4
3/4"	175	145	110	105	215	90	80	7.3
1"	205	155	130	120	250	105	90	10.5
1½"	245	180	195	150	345	165	105	19.0



Flanged connections

Size	A 1	В	С	D	Е	F	G	Weight
DN15	175	105	85	95	180	70	66	4.7
DN20	225	145	110	105	215	90	80	9.3
DN25	255	155	135	120	255	105	90	12.8
DN40	295	180	195	155	350	165	105	22.3

Safety information, installation and maintenance

For full details see the installation and Maintenance Instructions (IM-P077-02) supplied with the product.

Installation note:

The trap must be installed with the body upright with the strainer cap at the bottom so that the internal bucket is rising and falling vertically.

Disposal

This product is recycable. No ecological hazard is anticipated with the disposal of this product providing due care is taken.

How to order

Example: 1 off Spirax Sarco DN20 SFB4 inverted bucket steam trap having flanged EN 1092 PN16 connections.

Spare parts

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

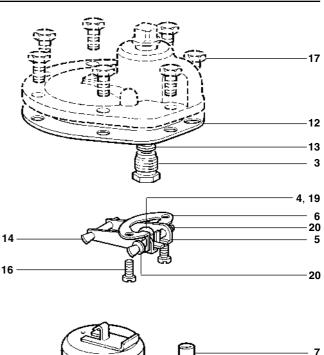
Available spares

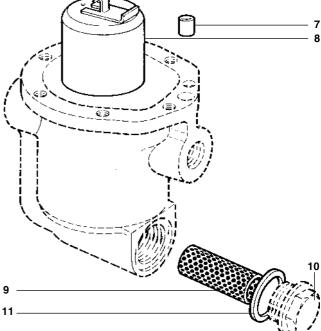
•	
Valve and seat assembly *(2 off) (supplied pre-assembled)	3, 4, 5, 6, 7, 12, 13, 14* 16*, 19, 20*
Bucket assembly	8
Strainer screen	9, 11
Packet of all gaskets	7, 11, 12, 13

How to order spares

Always order spare parts by using the description given in the column headed 'Available spares' and state the size, Model No. and pressure rating of the trap.

pressure rating of the trap. **Example:** 1 off Valve and seat assembly for a Spirax Sarco DN20 SFB8 inverted bucket steam trap for differential pressures up to 8 bar.





Recommended tightening torques

Item No.	Trap size		or mm	N m
	½" - DN15	15	-	25 - 30
3	34" - DN20	17	-	25 - 40
3	1" - DN25	22	-	50 - 60
	1½" - DN40	30	-	80 - 90
	½" - DN15	30	-	50 - 60
10	34" - DN20	36	-	50 - 60
10	1" - DN25	46	-	70 - 80
	1½" - DN40	50	-	90 - 110
	½" - DN15	-	M4 x 8	2.5 - 3
16	34" - DN20	-	M5 x 10	3 - 4
10	1" - DN25	-	M5 x 10	3 - 4
	1½" - DN40	-	M6 x 10	5 - 6
	½" - DN15	-	M8 x 20	20 - 25
17	3⁄4" - DN20	-	M12 x 25	60 - 70
17	1" - DN25	-	M10 x 30	40 - 45
	1½" - DN40	-	M12 x 35	60 - 70