

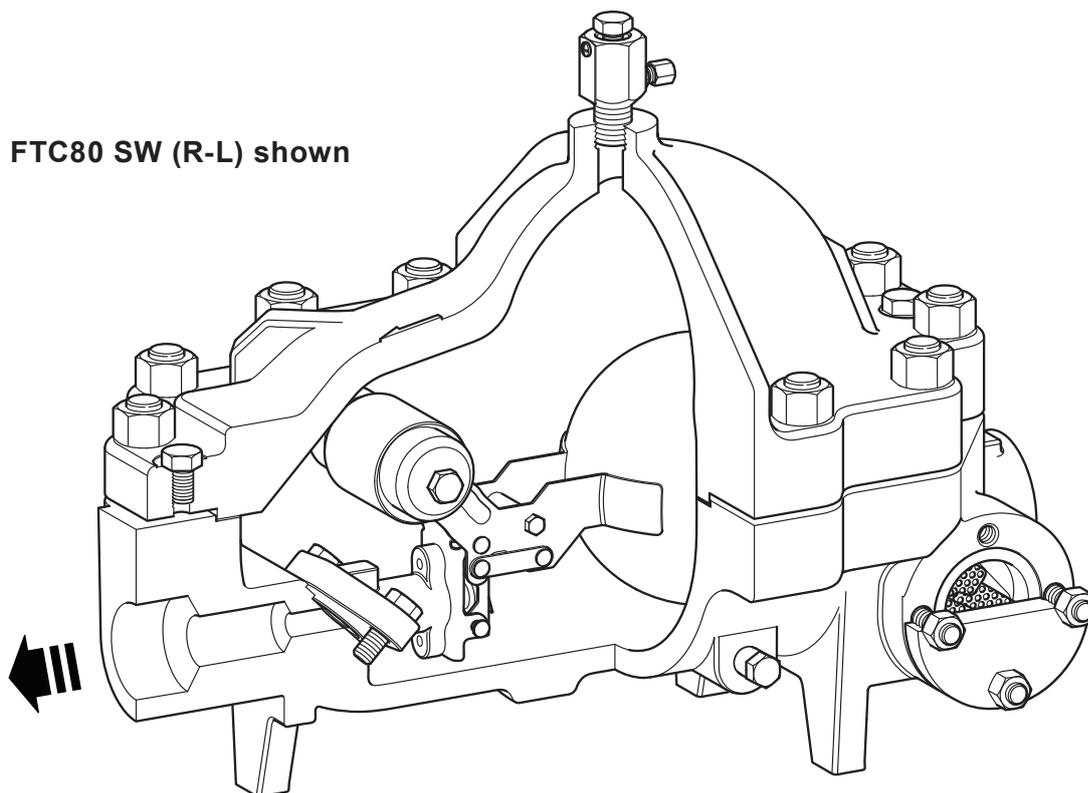


FTC80

Cast Steel

1½" and 2" Ball Float Steam Trap with ASTM Body

2" FTC80 SW (R-L) shown



Description

As standard, the FTC80 ball float steam trap is supplied with a right to left (R-L) flow configuration having horizontal connections and has provision for adding an air venting option; Please note that the unit is supplied with a ¼" socket weld connection in the cover with a plug screwed into the fitting. It has been designed for floor mounting and is suitable for most high-pressure process and drainage applications. Its simple robust ball float mechanism ensures excellent resistance to waterhammer. All internals are easily accessible for in-line maintenance and a drain port allows full body drainage.

It has a large maintainable strainer screen that extends service intervals and is located in an accessible flanged chamber.

Available options

Factory fitted external BDV2 air vent having a ½" NPT screwed connection (a ½" BSP T Rp (ISO 7-1) screwed connection is used on the PN100 version)

Factory fitted internal fixed bleed for continuous discharge of air and other incondensable gasses

Note: As standard the unit is supplied with a ¾" socket weld connection in the cover with a ¾" BSP T Rp (ISO 7-1) screwed plug fitted.

Standard

This product fully complies with the requirements of the European Pressure Equipment Directive 2014/68/EU.

Certification

This product is available with certification to EN 10204 3.1 for the body, cover, fasteners, screen flange and BDV2 air vent.

Note: All certification / inspection requirements must be stated at the time of order placement.

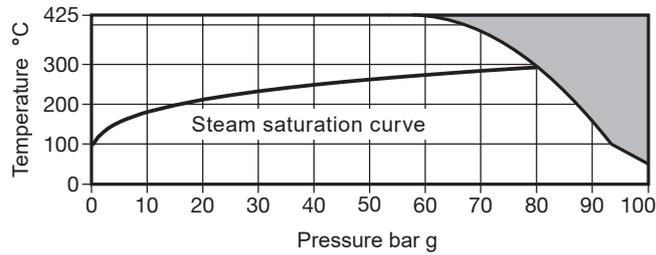
Sizes and pipe connections

1½" and 2" ASME B 16.11 Class 6000 socket weld.

1½" and 2" ASME B 16.5 Class 600 flanges.

Note: Other connections are available upon request but may limit the operating range – Please consult Spirax Sarco for further information. Drain plug connection is ¾" screwed NPT as standard (a ¾" screwed BSP T Rp (ISO 7-1) connection is used on the PN100 version).

Pressure/temperature limits



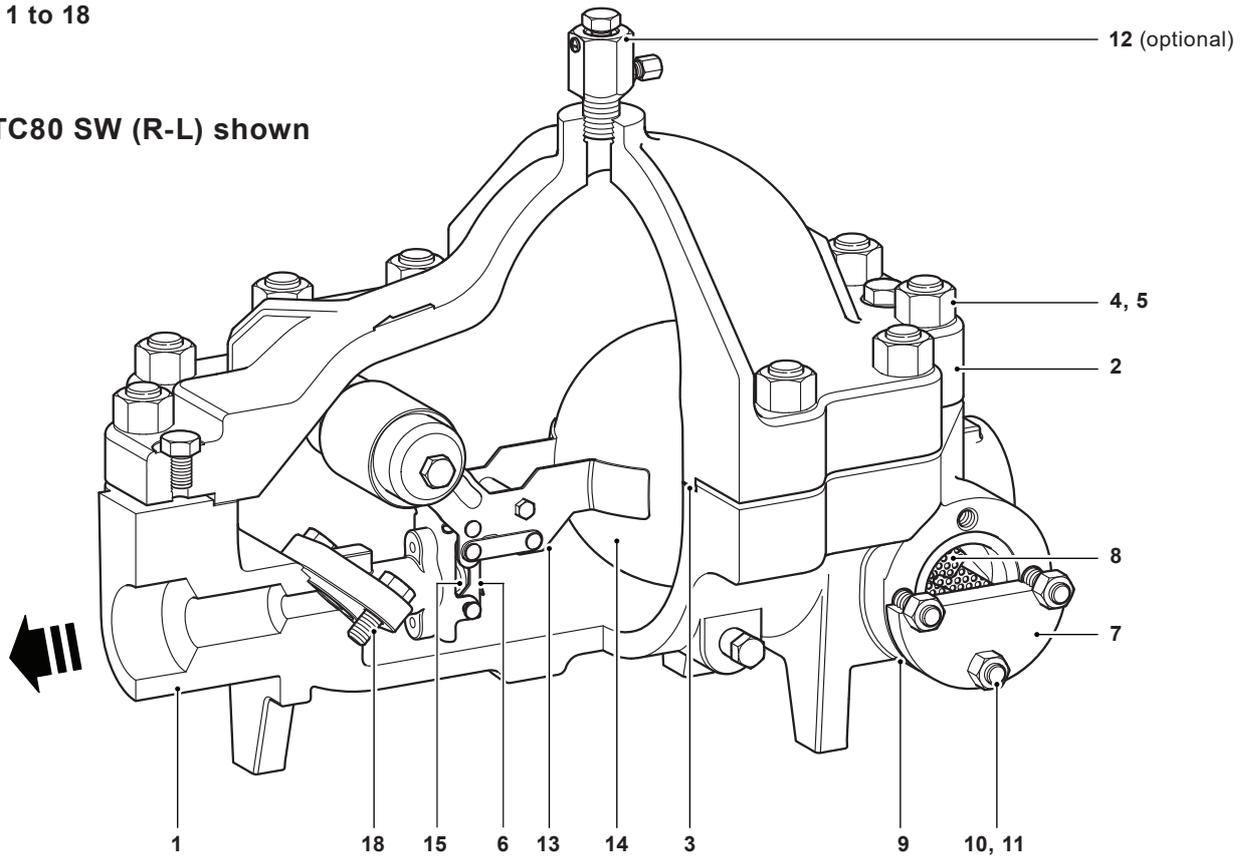
The product **must not** be used in this region.

Body design conditions	ASME 600
PMA Maximum allowable pressure	100 bar g @ 52 °C
TMA Maximum allowable temperature	425 °C @ 57 bar g
Minimum allowable temperature	-29 °C
PMO Maximum operating pressure for saturated steam service	80 bar g
TMO Maximum operating temperature	425 °C @ 57 bar g
Minimum operating temperature	0 °C
	FTC80-45 45 bar
ΔPMX Maximum differential pressure	FTC80-62 62 bar
	FTC80-80 80 bar
Designed for a maximum cold hydraulic test pressure of:	150 bar g

Materials

Parts 1 to 18

2" FTC80 SW (R-L) shown



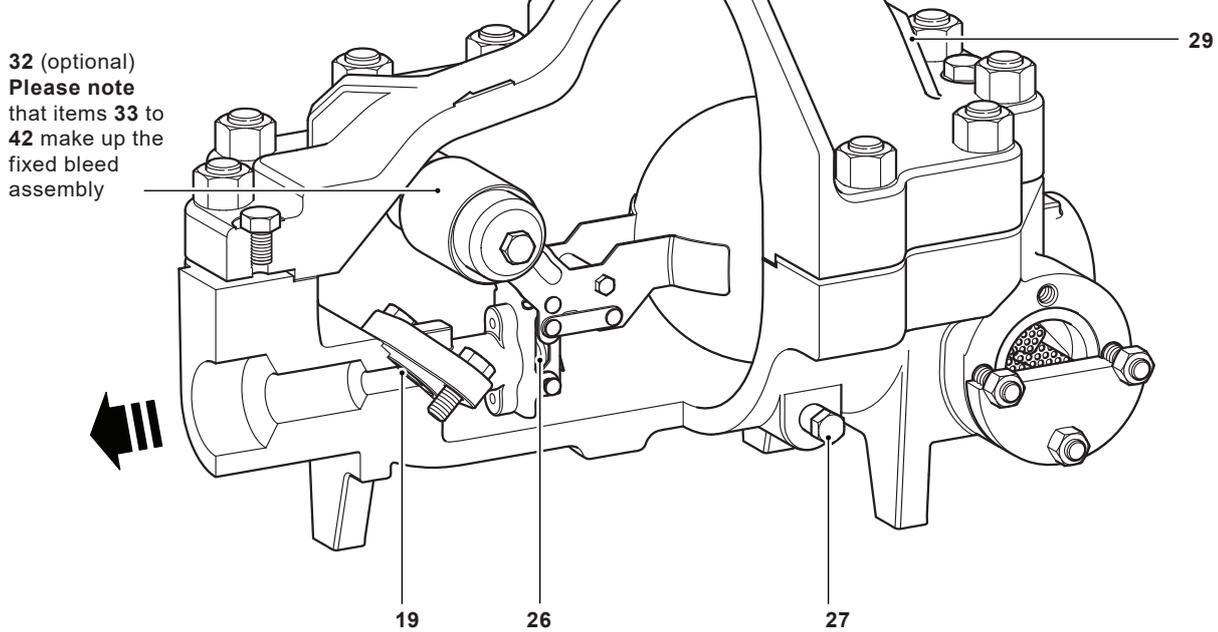
No.	Part	Material	
1	Body	Cast steel	ASTM A216 WCB
2	Cover	Cast steel	ASTM A216 WCB
3	Cover gasket	Tanged graphite	SST100
4	Cover stud	Steel	ASTM A193 B16
5	Cover nuts	Steel	ASTM A194 Gr. 4
6	Valve head and retainer	Stainless steel	
7	Strainer flange	Steel	ASTM A105N
8	Strainer screen	Stainless steel	
9	Strainer gasket	Tanged graphite	SST100
10	Strainer studs	Steel	ASTM A193 B16
11	Strainer nuts	Steel	ASTM A194 Gr. 4
12	Air vent (optional)	Stainless steel	(See BDV2 in TI-P600-01)
13	Mechanism assembly	Stainless steel	
14	Float	Stainless steel	
15	Valve seat	Titanium	
18a 18b	Assembly bolts	Stainless steel	A4-80

Materials continued on next page

Materials

Parts 19 to 42

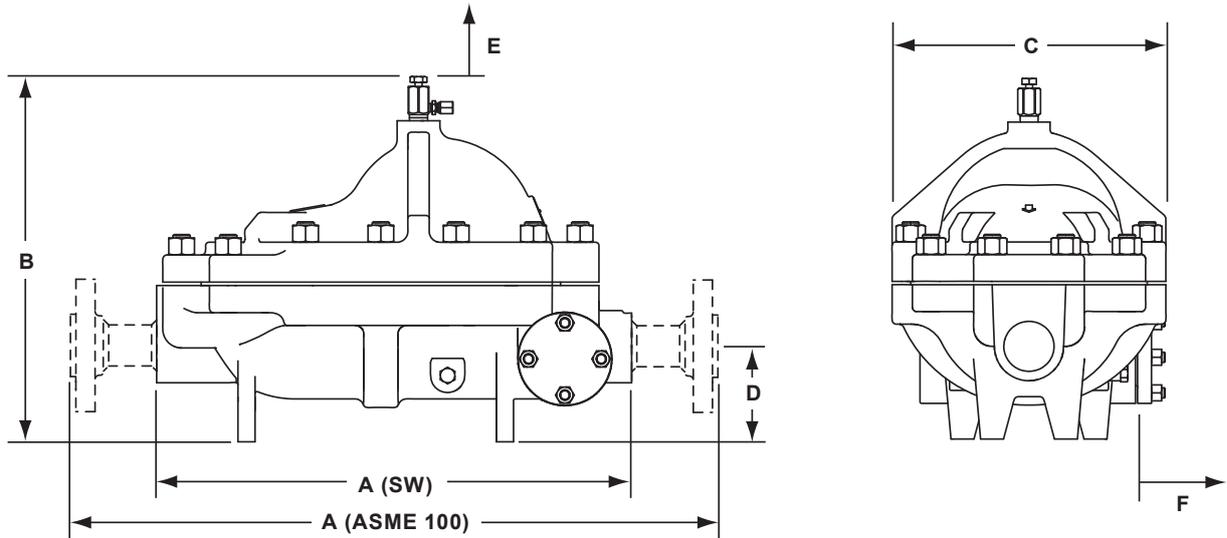
2" FTC80 SW (R-L) shown



No.	Part	Material	
19	Assembly gasket	Reinforced exfoliated graphite	
26	Gasket	Stainless steel	
27	Drain plug	Steel	ASTM A105N
28	Air vent plug (not shown)	Steel	ASTM A105N
29	Name-plate	Stainless steel	ASTM A105N
30 *	Flange pipe	Steel	ASTM A106B
31 *	Flange	Steel	ASTM A105N
	33	Bleed orifice	Stainless steel ASTM A276 431
	34	Pipe support	Stainless steel 304 or 316
	35	Washer	Stainless steel
	36	Lock-nut	Stainless steel A2-70
	37	Nut	Stainless steel 316
32	Fixed bleed assembly	38	Ferrule Stainless steel 316L
		39	Bleed pipe Stainless steel ASTM A269 304
		40	Stud Stainless steel 316 S11 or S13
		41	Twin ferrule Stainless steel 316 S11 or S13
		42	Nut Stainless steel 316 S11 or S13

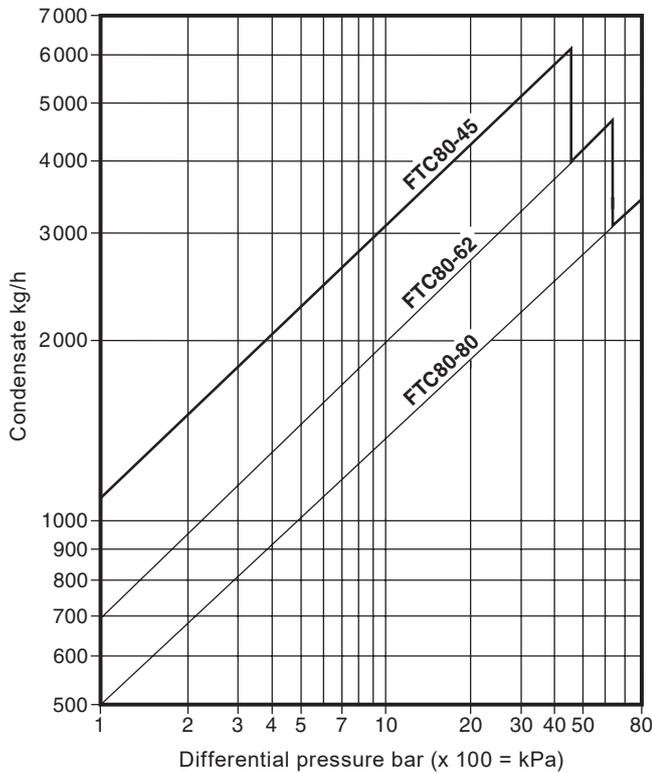
* Note: Items 30 and 31 the flange and flange pipe are not shown.

Dimensions / weights (approximate) in mm and kg



Size	A		B		C	D	Withdrawal distance		Weight	
	Socket weld	Flanged ASME 600	BDV2	Plug			E Cover	F Screen	Socket weld	Flanged ASME 600
DN40 (1½")	555	755	430	390	324	110.5	55	260	112	118
DN50 (2")	555	785	430	390	324	110.5	55	260	112	118

Capacities (in accordance with ISO 7842)



Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P179-06) supplied with the product.

Installation note

The FTC80 must be installed with the direction of flow as indicated on the body, and with the float arm in a horizontal plain so that it rises and falls vertically. Integral legs assist stable floor mounting. Please note that appropriate high temperature jointing compound must be used on the drain plug and air vent plug threads.

Disposal

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

Please visit the Spirax Sarco product compliance web pages <https://www.spiraxsarco.com/product-compliance> for up to date information on any substances of concern that may be contained within this product. Where no additional information is provided on the Spirax Sarco product compliance web page, this product may be safely recycled and/or disposed providing due care is taken. Always check your local recycling and disposal regulations.

How to order

Example: 1 off Spirax Sarco 1½" FTC80-45 (R-L) ball float steam trap with ASME Class 6000 weld connections and screwed BDV2 manual air vent complete with 3.1 certification for the FTC80 and BDV2.

Spare parts

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

Available spares

Mechanism maintenance kit, including float	3, 13, 18a, 18b, 19
Seat and ball head	3, 15, 16, 17, 19, 26
Cover gasket (3 off)	3
Strainer screen	8, 9
Strainer gasket (3 off)	9
Mechanism and fixed bleed maintenance kit including float	3, 13, 18a, 18b, 19, 32

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of trap, including pressure range.

Example: 1 off Seat and ball head set for a Spirax Sarco 1½" FTC80-45 ball float steam trap.

Item 12 The BDV2 air vent is an optional extra. For ordering this unit see TI-P600-01.

