spirax sarco FTC62

TI-P179-13 CMGT Issue 7

Carbon Steel Ball Float Steam Traps (DN15 to DN25)

Description

The FTC62 is a carbon steel bodied ball float steam trap having stainless steel working internals and automatic air venting facility.

Select L-R for a flow direction of Left-to-Right

FTC62 available options when facing the body:

R-L Select R-L for a flow direction of Right-to-Left

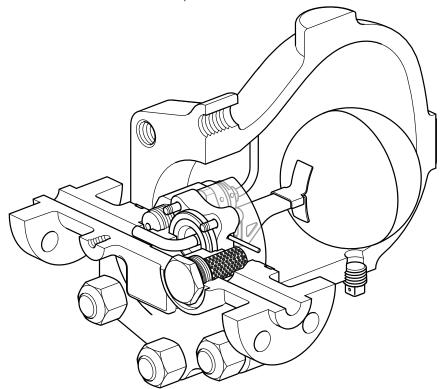
Standards

This product fully complies with the requirements of the EU Pressure Equipment Directive 2014/68/EU and carries the **((** mark.



This unit is available with certification to EN 10204 3.1.

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

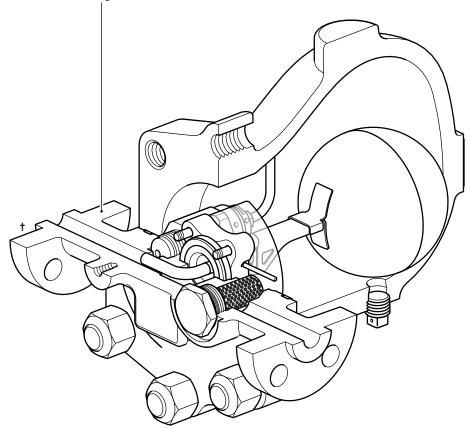


Sizes and pipe connections

½", ¾" and 1"	Screwed BSP T Rp (ISO 7-1) or NPT
½", ¾" and 1"	Socket weld ends to BS 3799 and Class 3000 lbs
Standard flanges:	
DN15, DN20 and DN25	Flanged EN 1092-1 PN100 †
½", ¾" and 1"	Flanged ASME B 16.5 Class 600

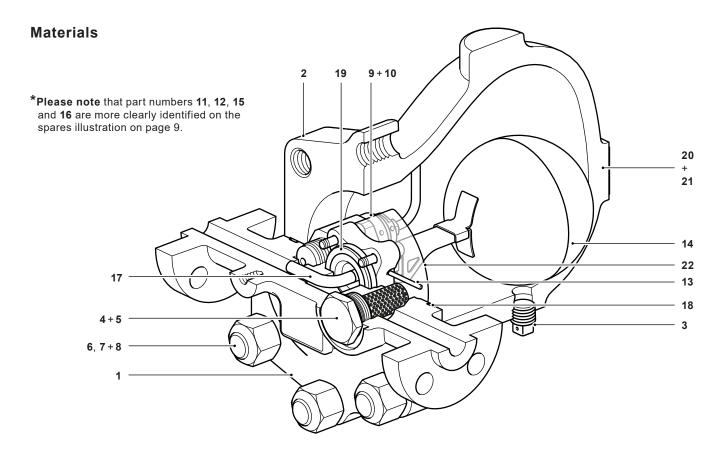
Note for the PN100 variant:

† The material used for the weld on flange variant is: Carbon Steel 1.0460.



The material used for the studs and nuts upon all versions is:

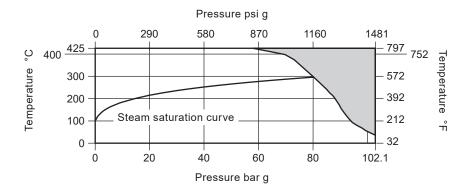
- Studs = ASTM A193 B7
- Nuts = ASTM A194 Gr. 4 to EN 10269



No.	Part	Material		
1	Body	Our to a FN 4	2040 4 0040 NI/AOTM A040 MOD	
2	Cover	Carbon steel EN 10	0213 1.0619+N/ASTM A216 WCB	
3	%" NPT taper plug	Stainless steel	CF8 / 1.4308 or 1.4301/304	
4	3/4" UNF nut (x 6)	Carbon steel	ASTM A194 Gr. 7	
5	3/4" UNF studs x 85 mm long (x 6)	Carbon steel	ASTM A193 B7	
6	Strainer cap	Stainless steel	CF8 / 1.4308 or 1.4301/304	
7	Strainer screen	Stainless steel	AISI 316L	
8	'S' type gasket	Stainless steel	AISI 304	
9	Air vent assembly	Stainless steel	AISI 431 S29 + 303	
10	Air vent tube	Stainless steel	ASTM A269 304L	
11 *	Seat clamp	Stainless steel	CF8 / 1.4308 or AISI 303	
12 *	M6x30 long cap screw (x4)	Stainless steel	EN 150 3506-1	
13	Pivot pin	Stainless steel	ASTM A276 304	
14	Float assembly	Stainless steel	AISI 304L	
15 *	½"Ø ball	Stainless steel	AISI 316	
16 *	Conical spring	nical spring Stainless steel		
17	Valve seat and discharge pipe assembly	ve seat and discharge pipe assembly Stainless steel		
18	Controlly was and markets. Dady to Cayon and Cantte Dady.	Chambita tillan i 204 atainlasa		
19	 Spirally wound gaskets Body to Cover and Seat to Body 	Graphite filler + 304 stainless s	ırıp	
20	Name-plate	Stainless steel	204	
21	Hammer drive screws (x 2)	Stainless steel	18-8	
22	Baffle plate	Stainless steel	304L	

Pressure/temperature limits (ISO 6552)

Screwed Socket weld

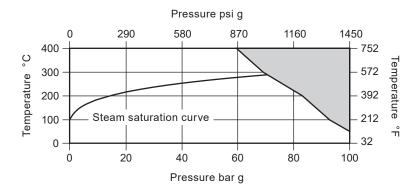


The product **must not** be used in this region or beyond the parameter of the PMA or TMA of the relative end connection.

Body design condition			ASME Class 600
PMA Maximum allowable pressure		102.1 bar g @ 38 °C	1481 psi g @ 100 °F
TMA Maximum allowable temperature	,	425 °C @ 57.5 bar g	797 °F @ 834 psi g
Minimum allowable temperature		-29 °C	-20 °F
PMO Maximum operating pressure for saturated steam service		80 bar g @ 296 °C	1160 psi g @ 565 °F
TMO Maximum operating temperature	,	425 °C @ 57.5 bar g	797 °F @ 834 psi g
Minimum operating temperature Note: For lower operating temperatures	nimum operating temperature te: For lower operating temperatures consult Spirax Sarco		32 °F
Product is safe for use under full vacuur	n conditions		
Minimum operating differential pressure		0.1 bar g	1.5 psi g
	FTC62-46	46 bar	667 psi
ΔPMX Maximum differential pressure	FTC62-62	62 bar	899 psi
Designed for a maximum cold hydraulic test pressure of:		153.2 bar g	2222 psi g

Pressure/temperature limits (ISO 6552)

Flanged EN 1092 PN100

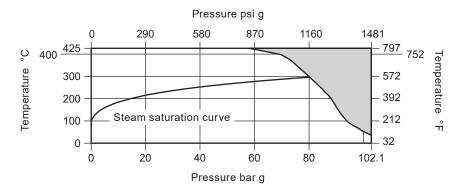


The product **must not** be used in this region or beyond the parameter of the PMA or TMA of the relative end connection.

	PN100
100 bar g @ 50 °C	1450 psi g @ 122 °F
400 °C @ 59.5 bar g	752 °F @ 863 psi g
-10 °C	14 °F
70.8 bar g @ 287 °C	1027 psi g @ 549 °F
400 °C @ 59.5 bar g	752 °F @ 863 psi g
0 °C	32 °F
0.1 bar g	1.5 psi g
46 bar	667 psi
62 bar	899 psi
150 bar g	2176 psi g
	400 °C @ 59.5 bar g -10 °C 70.8 bar g @ 287 °C 400 °C @ 59.5 bar g 0 °C 0.1 bar g 46 bar 62 bar

Pressure/temperature limits (ISO 6552)

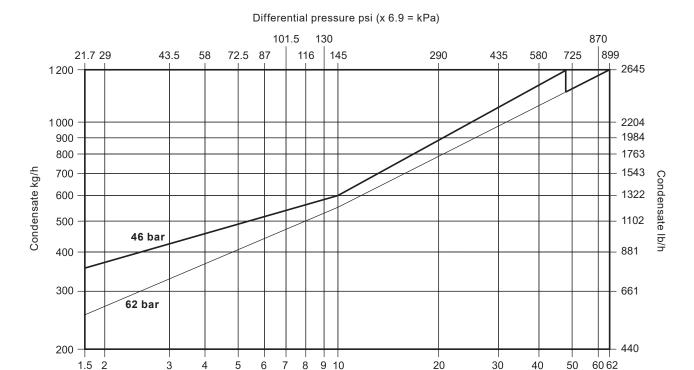
Flanged ASME Class 600



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TMO Maximum operating temperature		425 °C @ 57.5 bar g	797 °F @ 834 psi g	
Minimum operating temperature Note: For lower operating temperatures con	nsult Spirax Sarco	0 °C	32 °F	
Product is safe for use under full vacuum co	nditions			
Minimum operating differential pressure		0.1 bar g	1.5 psi g	
- Marian History	FTC62-46	46 bar	667 psi	
ΔPMX Maximum differential pressure	FTC62-62	62 bar	899 psi	
Designed for a maximum cold hydraulic test	pressure of:	153.2 bar g	2222 psi g	

Capacities



Capacities shown above are based on condensate at saturation temperature. Under start-up conditions when condensate is cold the internal bi-metallic air vent will be open and provides additional capcaity to the main valve.

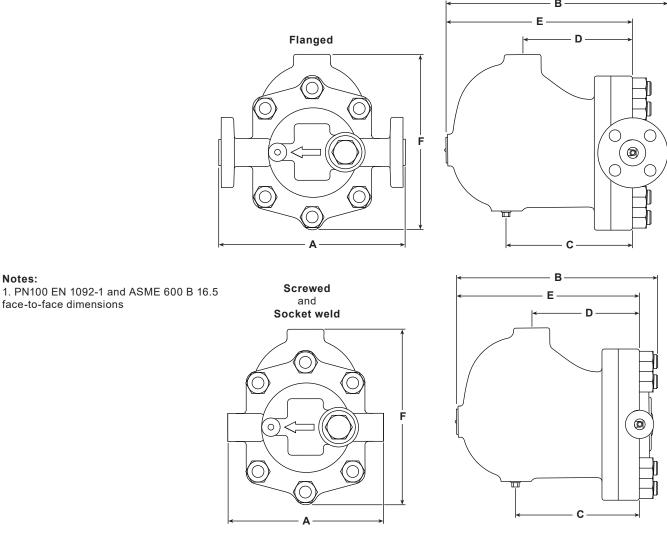
Differential pressure bar (x 100 = kPa)

The table below gives the minimum additional cold water capacities from the air vent on all sizes.

Note: The air vent closing temperature range = 120 °C to 135 °C (248 °F to 275 °F).

For differential pressures less than 1.5 bar g (22 psi g), the additional cold water capacity is minimal.

ΔP in bar (psi)	1.5	10	30	46	62
	(22)	(145)	(435)	(667)	(899)
FTS62	Minim	um additional	cold water ca	pacity in kg/h	(lb/h)
46 bar version	20 (44)	426 (939)	536 (1182)	800 (1764)	
62 bar version	20	350	440	930	800
	(44)	(772)	(970)	(2050)	(1764)



Size	Flanged					Screwed and			Common sizes				
		PN100		,	ASME 60	0	Socket weld						
	Α	В	Weight	Α	В	Weight	Α	В	Weight	С	D	E	F
DN15		304.0 (12)	25.0 (55.1)	261 (10.3)	299 (11.77)	24.0 (52.9)							
DN20	300 (11.8)	316.5 (12.5)	26.0 (57.3)	271 (10.7)	309 (12.2)	25.5 (56.2)	190 (7.48)	287.5 (11.3)	22.0 (48.5)	172.5 (6.79)	148 (5.83)	251.5 (9.90)	239 (9.41)
DN25	. ,	321.5 (12.7)	28.0 (61.7)	291 (11.5)	314 (12.4)	27.0 (59.5)							

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-P179-15) supplied with the product.

Installation note

The FTC62 must be installed with the direction of flow as indicated on the body, and with the float arm in a horizontal plane so that it rises and falls vertically.

Disposal

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

How to order

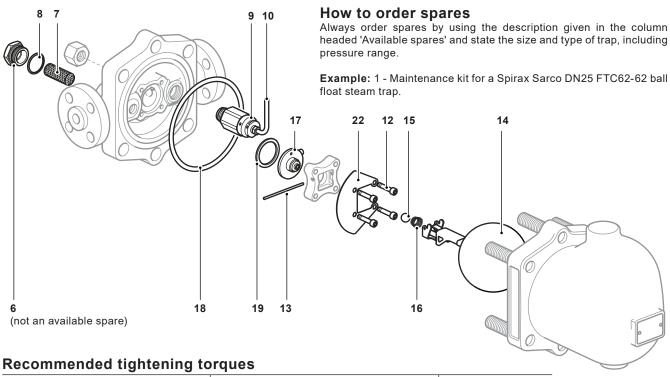
Example: 1 off Spirax Sarco DN25 FTC62-62 L-R ball float steam trap, flanged to EN 1092 PN100 with carbon steel body and cover and thermostatic air vent.

Spare parts

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

Available spares

Body/cover gasket kit		18
Air vent assembly + Air ver	nt tube	9 and 10
Strainer screen + 'S' type g	gasket	7 and 8
	%" NPT taper plug	3
	M6 x 30 long cap screw (x 4)	12
Air vent assembly + Air ve	Pivot pin	13
	Float assembly	14
Maintenance kit	½"Ø ball	15
	Conical spring	16
	Valve seat and discharge pipe assembly	17
	'S' type gasket + Spirally wound gaskets	8, 18 and 19
	Baffle plate	22
Overhaul kit		3, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19 and 22



Item	Part		inch or mm		N m	lbf ft
3	%" NPT Square head plug	11 mm A/F		3/8" NPT	As red	quired
4	¾" UNF Hex. Nut	1.125" A/F		¾" UNF	252-260	186-192
6	Strainer cap	32 mm A/F		M28 x 1.5	170-190	125-140
9	Air vent assembly	32 mm A/F		M22 x 1.5	80-88	59-65
10	Air vent tube assembly	11 mm A/F		M10 x 1.5	10-12	7-9
12	M6 x 30 Socket head cap screw	5 mm A/F (Hex Ke	y)	M6	14-16	10-12