TI-P179-14 CMGT Issue 5



Stainless Steel Ball Float Steam Traps (DN15 to DN25)

Description

The FTS62 is a stainless 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

FTS62 available options when facing the body:

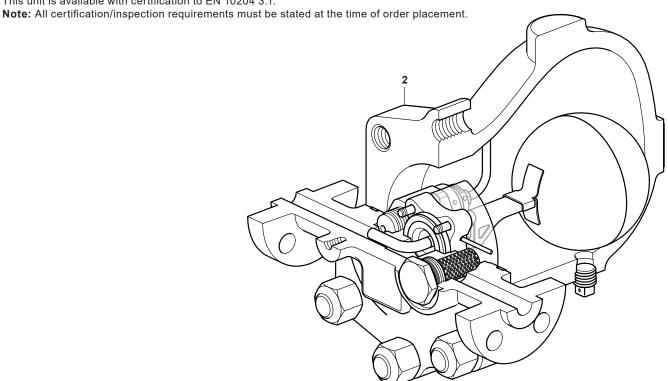
R-L Select R-L for a flow direction of Right-to-Left

Standards

This product fully complies with the requirements of the EU Pressure Equipment Directive/UK Pressure Equipment (Safety) Regulations

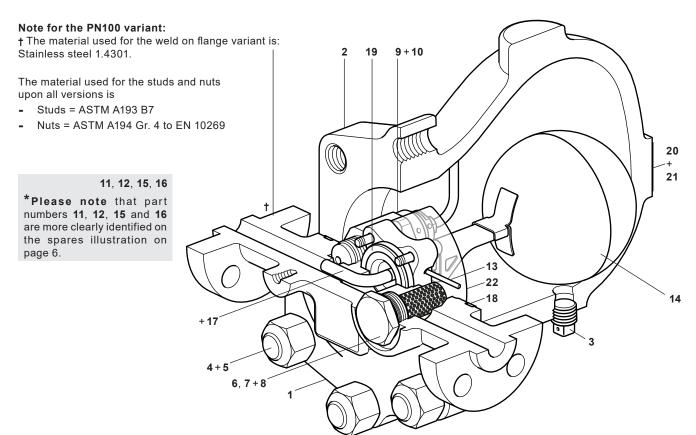
Certification

This unit is available with certification to EN 10204 3.1.



Sizes and pipe connections

½", ¾" and 1"	Screwed BSP 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

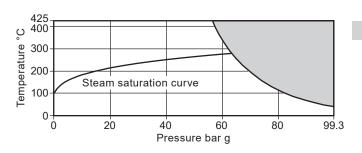


Materials

No.	Part	Material	
1	Body	Official constant	OTM A054 O50 5040040 4 4004
2	Cover	Stainless steel A	STM A351 CF8 EN10213 1.4308
3	%" NPT taper plug	Stainless steel	CF8/1.4308 or 1.4301/304
4	³ / ₄ " UNF nut (6)	Carbon steel	ASTM A194 Gr. 7
5	3/4" UNF studs x 85mm long (x 6)	Carbon steel	ASTM A193 B
6	Strainer cap	Stainless steel	CF8/1.4308 or 1.4301/304
7	Strainer screen	Stainless steel	AISI 316I
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 304I
11*	Seat clamp	Stainless steel	CF8/1.4308 or AISI 303
12*	M6x30 long cap screw (x4)	Stainless steel	EN 150 3506-
13	Pivot pin	Stainless steel	ASTM A276 304
14	Float assembly	Stainless steel	AISI 304I
15*	½"Ø ball	Stainless steel	AISI 316
16*	Conical spring	Stainless steel	Gr. 302 S26 Gr.
17	Valve seat and discharge pipe assembly	Stainless steel	AISI 431 S29 + 304I
18	Ociolla and a colota Balanta Occasional Ociota Balan	Occasion fillian a COA attaining a stain	
19	Spirally wound gaskets Body to Cover and Seat to Body	Graphite filler + 304 stainless stri	p
20	Name-plate	Stainless steel	204
21	Hammer drive screws (x 2)	Stainless steel	18-8
22	Baffle plate	Stainless steel	3041

Pressure/temperature limits (ISO 6552)

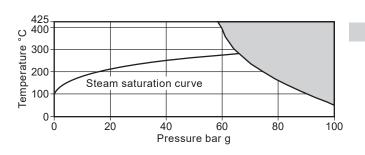
Screwed Socket weld



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		99.3 bar g @ 38 °C	
TMA Maximum allowable temperature	A Maximum allowable temperature		
Minimum allowable temperature		-29 °C	
O Maximum operating pressure for saturated steam service		63.1 bar g @ 280 °C	
TMO Maximum operating temperature		425 °C @ 56 bar g	
Minimum operating temperature Note: For lower operating temperatures con	sult Spirax Sarco	0 °C	
Product is safe for use under full vacuum co	nditions		
Minimum operating differential pressure		0.1 bar g	
	FTS62-46	46 bar	
ΔPMX Maximum differential pressure	FTS62-62	62 bar	
Designed for a maximum cold hydraulic test	pressure of:	149 bar g	

Flanged PN100

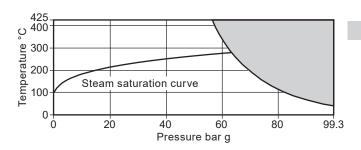


The product must not be used in this region or beyond the parameter of the PMA or TMA of the relative end connection.

Body de	sign condition	PN100	
PMA N	Maximum allowable pressure		100 bar g @ 50 °C
TMA N	Maximum allowable temperature		425 °C @ 58.9 bar g
Minimun	n allowable temperature		-29 °C
PMO N	Maximum operating pressure for saturate	65.8 bar g @ 283 °C	
TMO N	Maximum operating temperature		425 °C @ 58.9 bar g
	n operating temperature or lower operating temperatures consult \$	Spirax Sarco	0 °C
Product	is safe for use under full vacuum condition	ons	
Minimun	n operating differential pressure		0.1 bar g
		FTS62-46	46 bar
ΔΡΜΧ Ι	Maximum differential pressure	FTS62-62	62 bar
Designe	d for a maximum cold hydraulic test pres	sure of:	150 bar g

Pressure/temperature limits (ISO 6552) - Flanged ASME

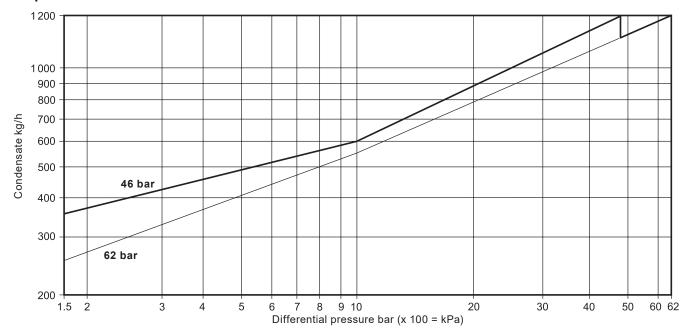
Flanged ASME Class 600



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		99.3 bar g @ 38 °C	
TMA Maximum allowable temperatu	re	425 °C @ 56 bar g	
Minimum allowable temperature		-29 °C	
PMO Maximum operating pressure for saturated steam service		63.1 bar g @ 280 °C	
TMO Maximum operating temperatu	re	425 °C @ 56 bar g	
Minimum operating temperature Note: For lower operating temperatur	es consult Spirax Sarco	0 °C	
Product is safe for use under full vacu	um conditions		
Minimum operating differential pressu	re	0.1 bar g	
	FTS62-46	46 bar	
ΔPMX Maximum differential pressure	FTS62-62	62 bar	
Designed for a maximum cold hydraul	Designed for a maximum cold hydraulic test pressure of:		

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

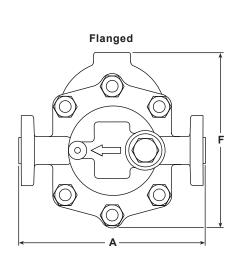
Note: The air vent closing temperature range = 120 °C to 135 °C.

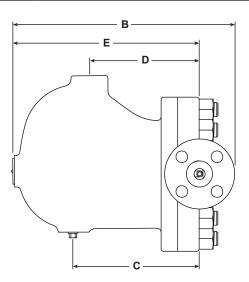
For differential pressures less than 1.5 bar g, the additional cold water capacity is minimal.

∆P (bar)	1.5	10	30	46	62
FTS62 Minimum additional cold water cap (kg/h)					
46 bar version	20	426	536	800	
62 bar version	20	350	440	930	800

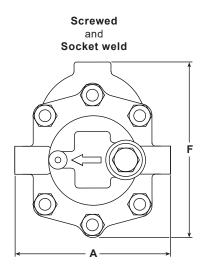
Dimensions/weights (approximate) in mm and kg

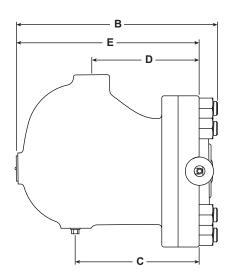
Size			Flan	iged			Screwed and							
		PN100			ASME 60	0	Socket weld							
	Α	В	Weight	Α	В	Weight	Α	В	Weight	С	D	E	F	
DN15	300	304.0	25.0	261	299	24.0	190	287.5	22.0	172.5	148	251.5	239	
DN20	300	316.5	26.0	271	309	25.5	190	287.5	22.0	172.5	148	251.5	239	
DN25	300	321.5	28.0	291	314	27.0	190	287.5	22.0	172.5	148	251.5	239	





Notes: 1. PN100 EN 1092-1 and ASME 600 B 16.5 face-to-face dimensions





Safety information, installation and maintenance

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

Installation note:

The FTS62 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

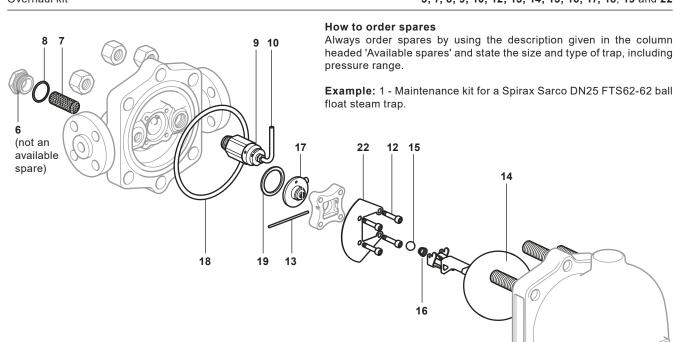
Example: 1 off Spirax Sarco DN25 FTS62-62 L-R ball float steam trap, flanged to EN 1092 PN100 with stainless steel body and cover and thermostatic air vent.

Spare parts

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

Available spares

7 tranabio oparoo		
Body/cover gasket kit		18
Air vent assembly + Air ver	nt tube	9 and 10
Strainer screen + 'S' type (gasket	7 and 8
	%" NPT taper plug	3
	M6 x 30 long cap screw (x 4)	12
	Pivot pin	13
	Float assembly	14
Maintenance kit	- 1∕₂"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



Recommended tightening torques

Item	Part		nch or mm	N m	lbf ft
3	%" NPT Square head plug	11 mm A/F	3∕8" NPT	As re	quired
4	3/4" 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 A/F (Hex Key)	M6	14-16	10-12