



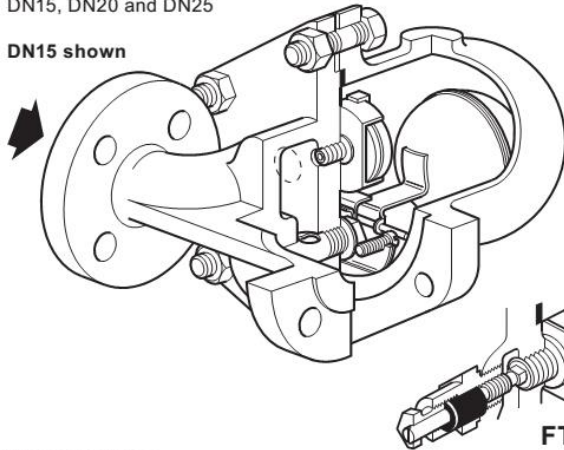
MODEL :FT 44
BALL FLOAT STEAM

FT44 Carbon Steel Ball Float Steam Traps (DN15 to DN50)

FT44

DN15, DN20 and DN25

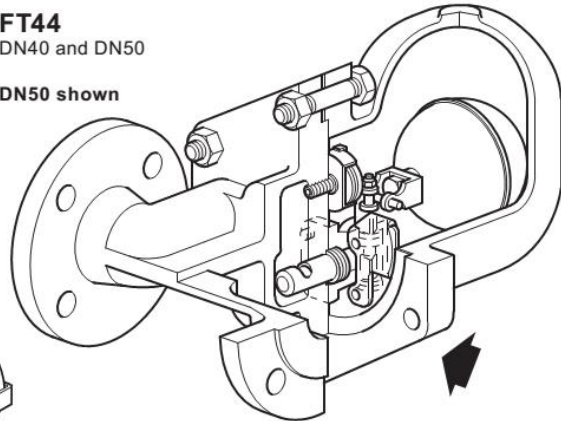
DN15 shown



FT44

DN40 and DN50

DN50 shown



FT44-C

Description

The FT44 is a carbon steel bodied ball float steam trap having stainless steel working internals and automatic air venting facility. The body and cover castings are produced by a TÜV approved foundry. The trap is supplied with integrally flanged connections and can be maintained without disturbing the pipework. Vertical flanged connections, designated FT44V, are available for all sizes. Flow direction for the horizontal trap is clearly illustrated above. For vertically orientated traps the flow is downwards only.

Available options:

FT44 – Horizontal flow
 FT44V – Vertical flow

Capsule

The BP99/32 capsule which is used in the FT44 is suitable for use on 150 °C superheat @ 0 bar g and 50 °C superheat @ 32 bar g.

Optional extras

A **manually adjustable needle valve** (designated 'C' on the nomenclature i.e. **FT44-C**) can be fitted to the **FT44 horizontal version only**.

This option provides a **steam lock release (SLR)** feature in addition to the standard air vent. For further information please consult Spirax Sarco.

The **top of the cover can be drilled and tapped 3/8" BSP or NPT** for the purpose of fitting a balance line if requested at the point of order.

The **bottom of the cover can be drilled and tapped 3/8" BSP or NPT** for the purpose of fitting a drain cock if requested at the point of order.

Standards

This product fully complies with the requirements of the Pressure Equipment Directive (PED) and carries the **CE** mark when so required.

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.

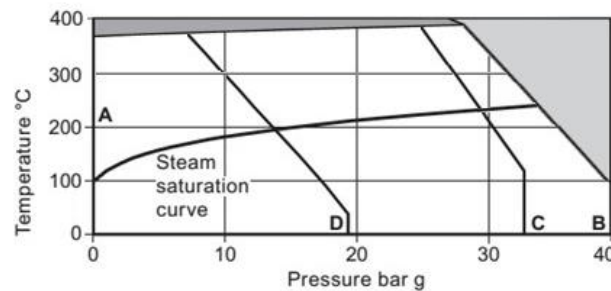
Sizes and pipe connections

DN15, DN20, DN25, DN40 and DN50.

Horizontal traps: Note the flow direction when facing the body: - DN15 to DN25 is left to right. - DN40 and DN50 is right to left. Standard flanges are EN 1092 PN40 with face-to-face dimensions in accordance with EN 26554 (Series 1), ASME B 16.5 Class 150, ASME B 16.5 Class 300 and JIS/KS 20 flanges are also available with extended face-to-face dimensions.

Vertical traps: Note that the flow direction is vertically downwards only. Standard flanges are EN 1092 PN40 with face-to-face dimensions in accordance with EN 26554 (Series 1). ASME B 16.5 Class 150, ASME B 16.5 Class 300 and JIS/KS 20 are also available with face-to-face dimensions in accordance with EN 26554 (Series 1). ASME / JIS / KS flanges are supplied with tapped holes to receive flange bolts. ASME flanges have UNC threads and JIS / KS have metric threads.

Pressure/temperature limits



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

This product should not be used in this region as damage to the internals may occur.

A - B Flanged EN 1092 PN40 and ASME 300

A - C Flanged JIS/KS 2

A - D Flanged ASME 150.

Body design conditions	PN40
PMA Maximum allowable pressure	40 bar g @ 100 °C
TMA Maximum allowable temperature	385 °C @ 27.5 bar g
Minimum allowable temperature	-10 °C
PMO Maximum operating pressure for saturated steam service Note: The DN40 and DN50 traps are limited to a PMO equal to DPMX	32 bar g @ 239 °C
TMO Maximum operating temperature	285 °C @ 28.5 bar g
Minimum operating temperature Note: For lower operating temperatures consult Spirax Sarco	0 °C

	Size	DN15, DN20, DN25	DN40, DN50
ΔPMX Maximum differential pressure	FT44-4.5	4.5 bar	4.5 bar
	FT44-10	10 bar	10 bar
	FT44-14	14 bar	-
	FT44-21	21 bar	21 bar
	FT44-32	32 bar	32 bar
	Designed for a maximum cold hydraulic test pressure:		

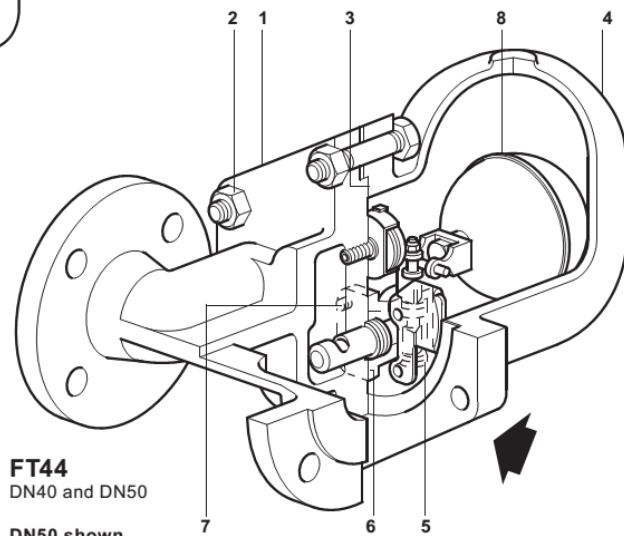
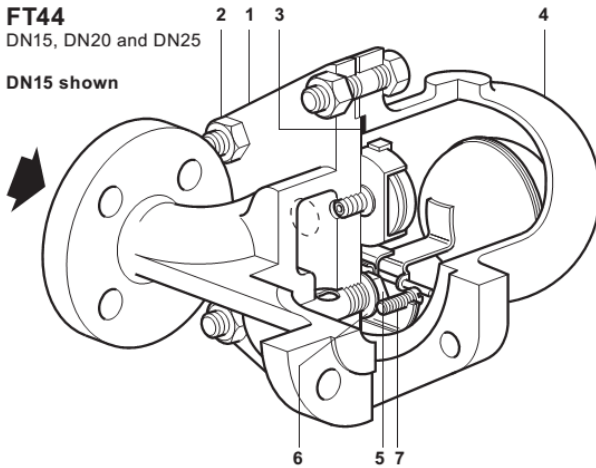
Caution: The trap in its complete operational form must not be subjected to a pressure greater than 48 bar otherwise damage to the internal mechanism may result.

Materials

FT44

DN15, DN20 and DN25

DN15 shown



FT44

DN40 and DN50

DN50 shown

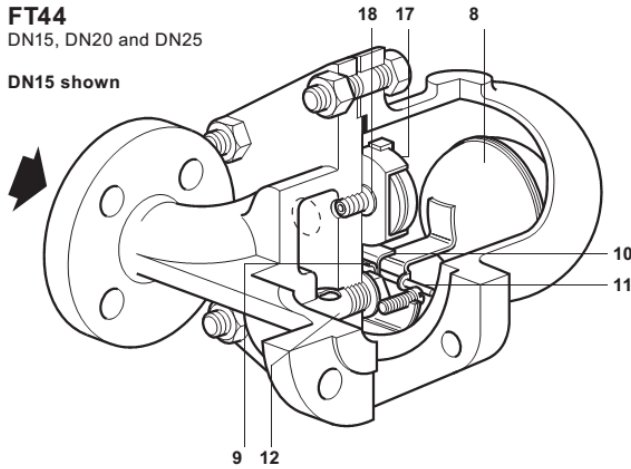
No.Part		Material	
1	Body	Carbon steel	1.0619+N/WCB
	Cover studs	Steel	BS 4882 B7M
2	Cover nuts	DN15, DN20 and DN25	Steel EN 10269 25 Cr Mo 4
		DN40 and DN50	Steel BS 3692 Gr. 8
3	Cover gasket	Reinforced exfoliated graphite	
4	Cover	Carbon steel	1.0619+N/WCB
5	Valve seat	DN15, DN20 and DN25	Stainless steel BS 970 431 S29
	Main valve assembly with erosion deflector	DN40 and DN50	Stainless steel BS 3146 Pt2 ANC2 BS 970 416 S37
	Valve seat gasket	DN15, DN20 and DN25	Stainless steel BS 1449 304 S11
6	Main valve assembly gasket	DN40 and DN50	Reinforced exfoliated graphite
	Pivot frame assembly screws	DN15, DN20 and DN25	Stainless steel BS 4183 18/8
7	Main valve assembly	Bolts	DN40 Stainless steel BS 970 302 S25
		Studs and nuts	DN50 Stainless steel BS 970 431 S29

Materials (continued)

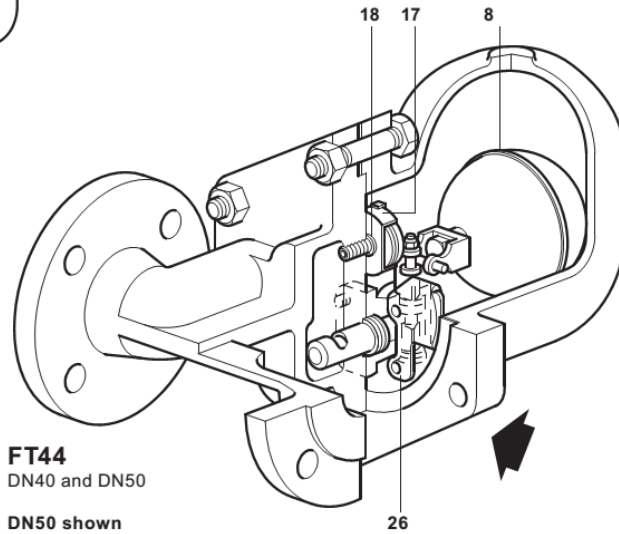
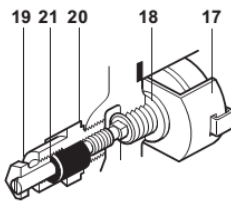
FT44

DN15, DN20 and DN25

DN15 shown



FT44-C



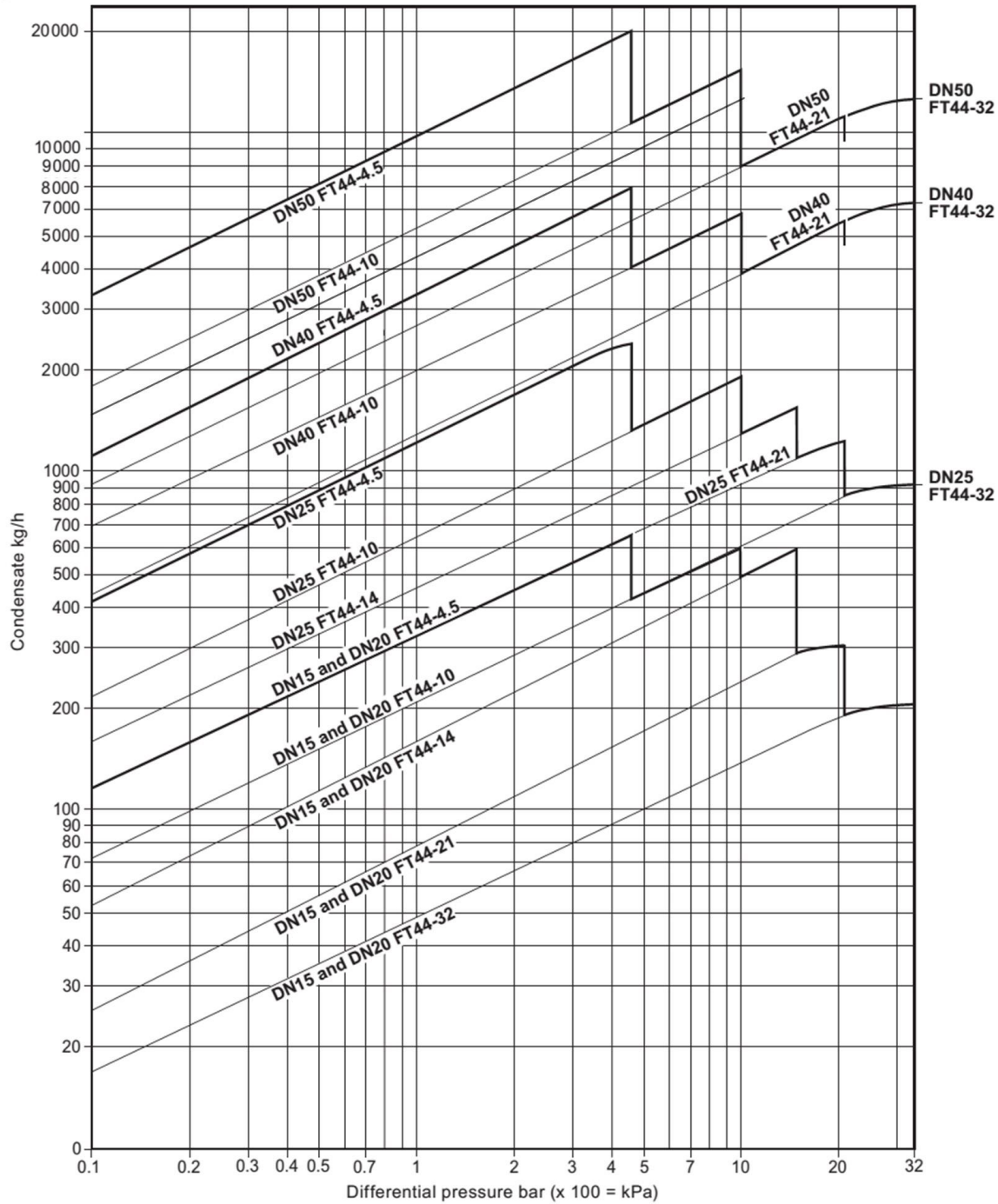
FT44

DN40 and DN50

DN50 shown

No.Part		Material	
8	Ball float and lever	Stainless steel	BS 1449 304 S16
9	Support frame	DN15, DN20 and DN25	Stainless steel BS 1449 304 S16
10	Pivot frame	DN15, DN20 and DN25	Stainless steel BS 1449 304 S16
11	Pivot pin	DN15, DN20 and DN25	Stainless steel
12	Erosion deflector		Stainless steel BS 970 431 S29
17	Air vent assembly		Stainless steel
18	Air vent seat gasket		Stainless steel BS 1449 409 S19
19	SLR assembly		Stainless steel BS 970 303 S31
20	SLR gasket		Steel BS 1449 CS4
21	SLR seal		Graphite
26	Inlet plate	DN40 and DN50 only	Stainless steel BS 1449 304 S16

Capacities



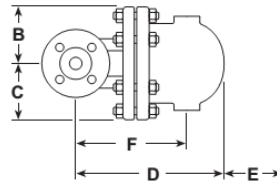
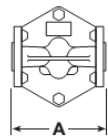
Dimensions/weights (approximate) in mm and kg

Notes:

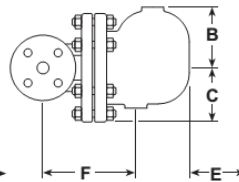
1. Dimensions in brackets relate to vertical connections only.
2. PN40 face-to-face dimensions are in accordance with EN 26554 (Series 1).

Size	PN40 A (A)	ASME 300 A (A)	ASME 150 A (A)	JIS/KS 20K A (A)	B	C
DN15	150 (150)	209 (150)	203 (150)	206 (150)	80	80
DN20	150 (150)	209 (150)	205 (150)	210 (150)	80	80
DN25	160 (160)	212 (160)	208 (160)	210 (160)	115	85
DN40	230 (230)	327 (230)	321 (230)	322 (230)	130	115
DN50	230 (230)	320 (230)	313 (230)	311 (230)	141	123

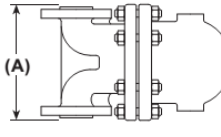
FT44
DN15 and DN20



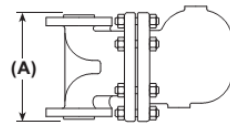
FT44
DN25, DN40 and DN50



FT44V
DN15 and DN20



FT44V
DN25, DN40 and DN50



Size	PN40 D	ASME 300 D	ASME 150 D	JS/KS 20K D	E	F	Weight
DN15	215	215	215	215	120	155	10.8
DN20	225	225	225	225	120	165	10.8
DN25	282	282	282	282	170	215	15.0
DN40	326	248	248	248	200	200	33.0
DN50	332	251	251	251	200	225	34.0

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-S02-30) supplied with the product.

Installation note:

The FT44 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 FT44-14 ball float steam trap, flanged to EN 1092 PN40 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

Main valve assembly with float (DN15, DN20 and DN25 horizontal traps)*	5, 6, 7, 8, 9, 10, 11
Main valve assembly with integral erosion deflector (DN40 and 50) ** (specify horizontal or vertical trap)	5, 6, 7, 12, 26
Main valve assembly with float and erosion deflector (DN15 and DN20 vertical traps only)	5, 6, 7, 8
Ball float (DN40 and DN50)	8
Air vent assembly	17, 18
Manually adjustable needle valve (SLR - Steam lock assembly) and air vent assembly (FT44-C)	17, 18, 19, 20, 21
Complete set of gaskets (packet of 3 sets)	3, 6, 18, 20

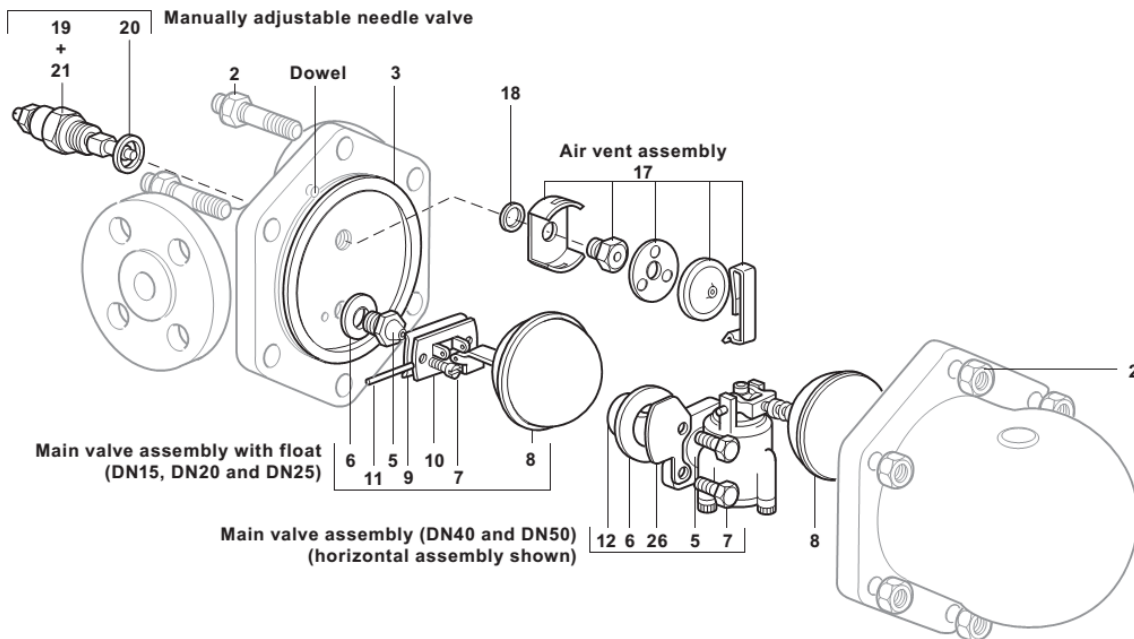
* On horizontal traps the erosion deflector on the DN15, DN20 and DN25 is pressed into the body during manufacture and not available as a spare.

** There is no erosion deflector on vertical traps.



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 and orientation i.e.: horizontal or vertical connections.

Example: 1 - Main valve assembly for a Spirax Sarco DN40 FT44-4.5V ball float steam trap, with vertical connections.



Recommended tightening torques

Item	Size	 or mm		N m
2	DN15, DN20 and DN25	17 A/F	M10 x 60	19 - 22
	DN40	24 A/F	M16 x 85	60 - 66
	DN50	24 A/F	M16 x 85	80 - 88
5	DN15, DN20 and DN25	17 A/F		50 - 55

Item	Size	 or mm		N m
7	DN15, DN20 and DN25		M5 x 20	2.5 - 2.8
	DN40	10 A/F	M6 x 20	10 - 12
	DN50	13 A/F	M8 x 20	20 - 24
17		17 A/F		50 - 55
19		22 A/F		50 - 55

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TDS45



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TDY131



TDX62



TDG50



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