

Ball Float Steam Trap

FT 20

Description:

FT-20 Ball Float steam trap is a condensate drain trap of cast steel body, cover and stainless steel internals.

Available sizes & Pipe connections:

15, 20, 25, 40 & 50 NB.

Screwed BSPT/NPT/Socket weldable to ANSI B 16.11/Flanged ANSI B 16.5 class 150, 300, 600; BS Table H, J, K, R; DIN ND 10,16,25 & 40.

Note:

- 1) Available with IBR certificate
- 2) FT-20, 32 bar differential pressure is available in 15, 20 & 25 NB.
- 3) 15 NB ASA 150 is available only with weld on flanges.
- 4) Flange thickness is common for each size as shown in dimensional details.

Available types & Limiting conditions

FT-20 TV with built in Thermostatic Air Vent

FT-20 SLR with built in Steam Lock Release arrangement.

FT-20 - 4.5 Max. differential pressure of 4.5 bar.

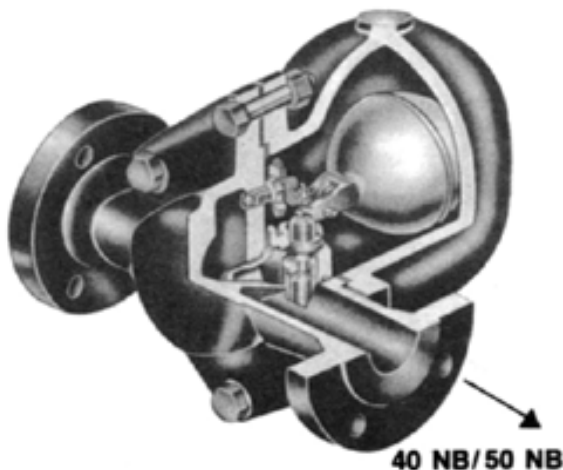
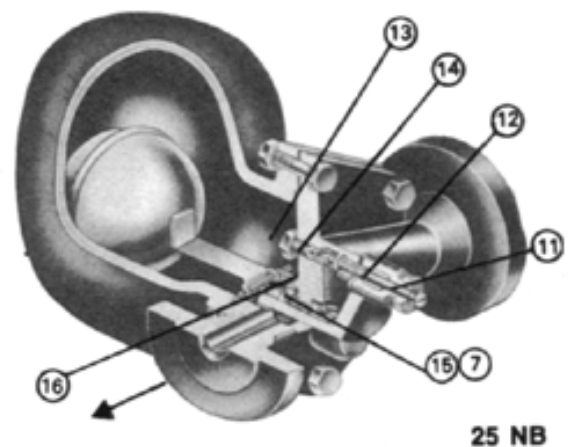
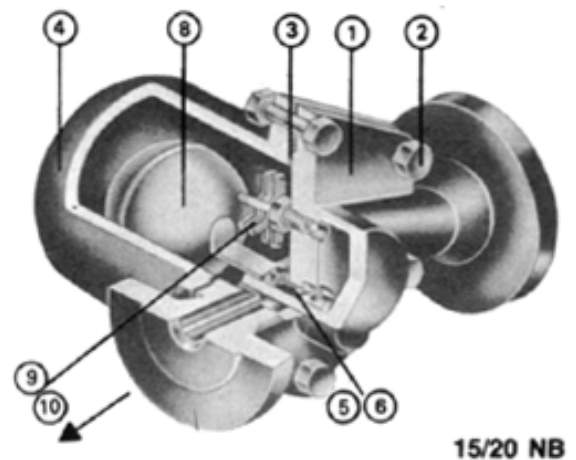
FT-20 -10 Max. differential pressure of 10 bar.

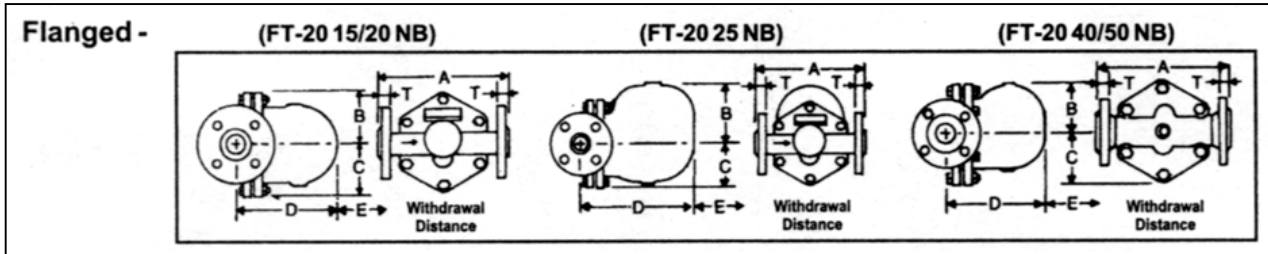
FT-20 -14 Max. differential pressure of 14 bar.

FT-20 - 21 Max. differential pressure of 21 bar.

FT-20 - 32 Max. differential pressure of 32 bar.

Body design conditions : 32.6 kg/cm² (32 bar) at 427°C Cold hydraulic test pressure 65.2 kg/cm² (64 bar).





Material:

No. Part	Material	Standard
1. Base	Cast Steel	ASTMA-216 Gr.WCB
2a) Cover Bolts	Carbon Steel	H.T. IS 1367 Gr. 8.8
b) Cover Nuts	Carbon Steel	H.T. IS 1367 Gr.8
3. Cover Gasket	Asbestos Free, Reinforced exfoliated graphite	
4. Cover	Cast Steel	ASTMA-216 Gr. WCB
5. Valve Seat	Stainless Steel Type 410	ASTM A-276
6. Valve Seat Gasket	Stainless Steel Type 304	ASTM A-240
7. Pivot Frame Assly. Set Screws	Stainless Steel Type 304	IS-1364
8. Ball Float & Lever	Stainless Steel Type 304	ASTM A-240
9. Air Vent Assly.	Stainless Steel Type 316	ASTM A-240
10. Air Vent Seat Gasket	Stainless Steel Type 304	ASTM A-240
11. SLR Unit	Stainless Steel Type 410	ASTM A-276
12. SLR Unit Gasket	Stainless Steel Type 304	ASTM A-240
13. SLR Seat	Stainless Steel Type 410	ASTM A-276
14. SLR Seat	Stainless Steel Type 410	ASTM A-276
15. Support Frame	Stainless Steel Type 304	ASTM A-240
16. Pivot Frame	Stainless Steel Type 304	ASTM A-240

How to Specify:

Example: 15 NB BSPT FT-20,4.5 bar TV

Installation:

The arrow on the nameplate must point downwards.

The arrow on casting indicates the flow direction.

Optional Extras:

The steam trap body can be drilled and tapped to 3/8" BSPT/NPT to accommodate drain cock if required.

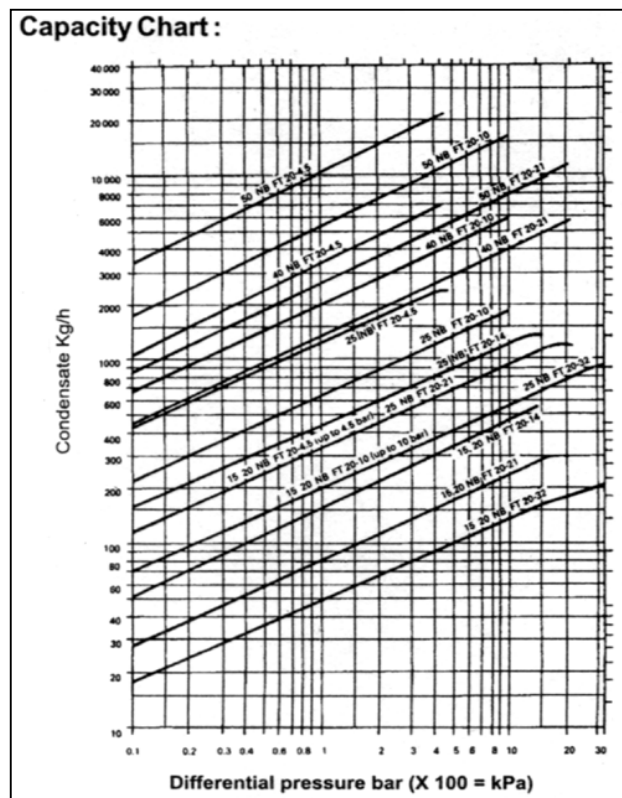
Servicing:

I) For 15, 20 & 25 NB Main Valve Assly.: Unscrew cover bolts and lift off the cover. Remove complete float assembly by undoing the two screws on the pivot frame, main valve seat and gasket and if damaged replace with a new one. Fit support frame and pivot frame by using two set screws but do not tighten full. Place the float arm and complete the assembly by placing the pin. Now tighten the set screws. Refit the cover.

II) For 40 and 50 NB Main Valve Assly.: Unscrew cover bolts and lift off the cover. Unscrew the assembly set screws. Remove the main assembly, if damaged replace with a new one. Refit the cover by using the cover bolts and nuts.

Spare Parts:

The available spare parts are shown in heavy outline. Parts drawn in broken line are not available as spares. Mention trap size, type and differential pressure while ordering spares. For Codes Ref. User Manual.



Dimensional Details - (approx) in mm.

Flanged – (Except ASA 600)

Size	A	B	C	D	E	T*
15/20 NB	230	80	84	172	120	23
25 NB	240	119	88	225	160	24
40 NB	350	131	124	265	200	26
50 NB	335	143	130	265	200	26

GEN TOL. ± 3

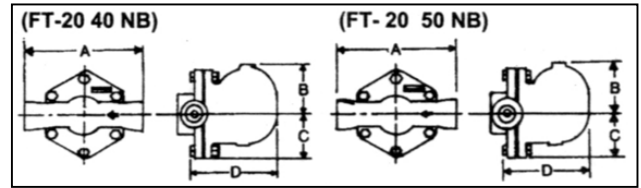
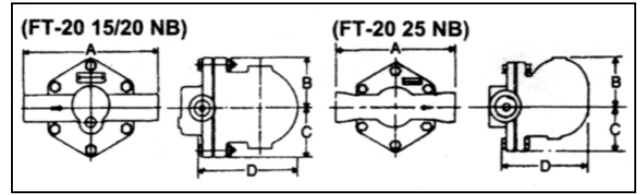
* For Screwed/Socket Weldable Ends: T = 0

Dimensional Details for ASA 600

Size	A	B	C	D	E	T
15/20 NB	230	84	84	172	120	23
25 NB	240	119	88	225	160	24
40 NB	350	131	124	265	200	29
50 NB	335	143	130	265	200	32

GEN TOL. ± 3

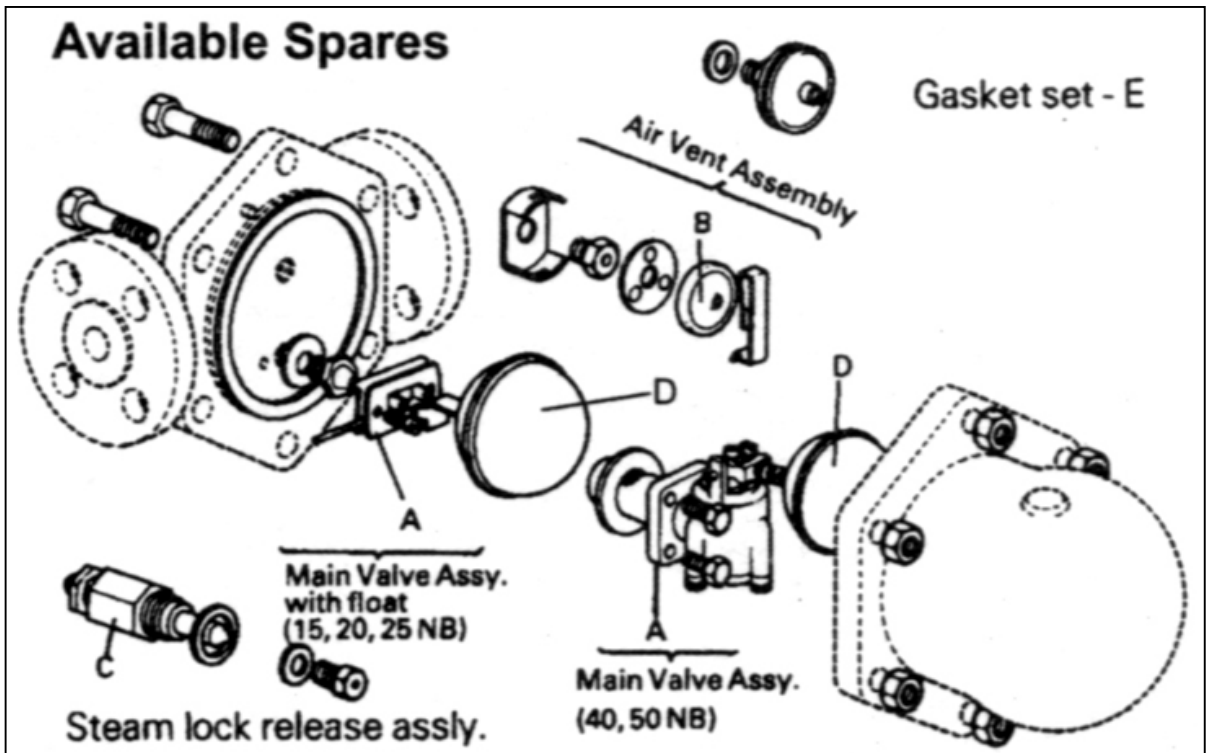
Screwed / Socket Weldable



Available Spares:

Main Valve Assembly with Float

- (15, 20 & 25 NB) _____ A
- Main Valve Assembly (40, 50 NB) _____ A+D
- Air Vent Assembly _____ B
- Steam Lock Release Unit _____ C
- Sets of Gaskets (Pkt of 3) _____ E
- Float _____ D



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