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Compressed Air Drain Trap CA – 20

Description:

CA - 20 is a condensate drain trap of Cast Steel body and cover for compressed air and other pressurized gases. The trap body is equalized with the pressure in the system through the balancing connection on top of the trap body

Available Sizes & Pipe connections:

15, 20 & 25 NB

Screwed: BSPT/NPT, Socket weldable

Flanged: ANSI 150, 300, 600
 BS Table H, J, K, R
 DIN ND 10, 16, 25.40

Note:

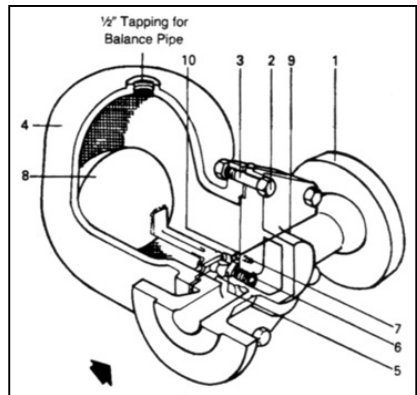
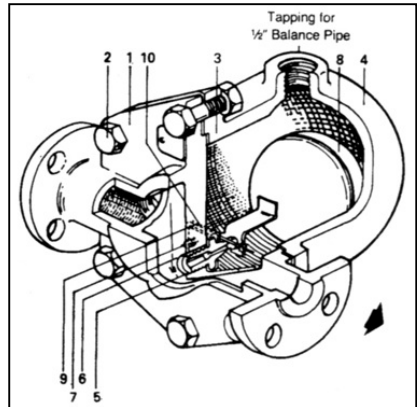
- 15 NB ASA 150 Flange available only with weld on flange.
- Flange thickness is common for each size as shown in dimensional details.

Available types & Limiting Conditions:

CA 20 - 4.5 bar, Max. differential Pressure of 4.5 bar.
 CA 20 - 10 bar, Max. differential Pressure of 10 bar.
 CA 20 - 14 bar, Max. differential Pressure of 14 bar.
 CA 20 - 21 bar, Max. differential Pressure of 21 bar.
 CA 20 - 32 bar, Max. differential Pressure of 32 bar.
 Max. Body Design Condition – 36.6 kg / cm² at 427°C.
 Max. Cold hydraulic test Pressure – 62.5 kg / cm²

Material:

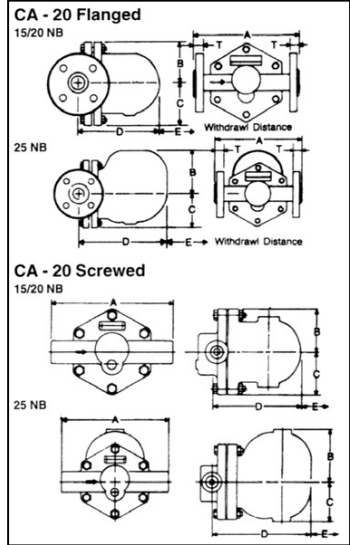
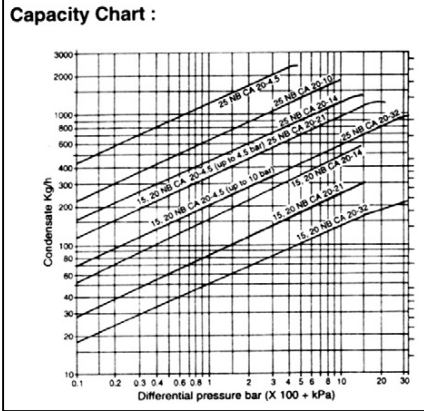
No. Part	Material	Standard
1. Base	Cast Steel	ASTM A-216 Gr. WCB
2. Cover Bolts Cover Nuts	Carbon Steel	H.T. IS 1367 Gr.8.8 H.T. IS 1367 Gr.8
3. Cover Gasket	Reinforced exfoliated graphite	
4. Cover	Cast Steel	ASTM A-216 Gr. WCB
5. Valve Seat	Stainless Steel Type 410	ASTM A-734 Gr. CA40
6. Valve Seat 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. Support Frame	Stainless Steel Type 304	ASTM A-240
10. Pivot Frame	Stainless Steel	ASTM A-240



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Dimensional Details:

Size	A	B	C	D	E	T
Flanged 15/20NB	230	84	84	172	120	23
Flanged 25 NB	222	111	64	203	160	24
Screwed 15/20	230	84	84	172	120	-
Screwed 25 NB	245	119	88	225	160	-



How to specify:

Example: 20 NB SPIRAX - MARSHALL CA 20-14 bar, Flanged to BS 20 Table 'H'

Installation:

The arrow on the nameplate must point downwards. The arrow on the casting indicates the flow direction.

Servicing:

With suitable isolation, repairs can be carried out with the trap on line. Undo cover nut bolts and lift off cover. When reassembling make sure that all joint faces are clean. Always use a new gasket and apply a thin coating of jointing paste. Tighten cover bolts uniformly.

Spare Parts: (Refer Fig. 'Available Spares')

The spare parts available are shown in heavy outline. Parts drawn in broken lines are not supplied as spares.

Available Spares:

Main Valve assembly _____ A, B, C, D, E, F, G, B, T (Packet of 3) _____ Sets of gaskets

How to Order Spares:

Always order spares by using the description given in the column headed 'Available Spares' and stating the size and type of trap.

Example: Main Valve assembly for 20 NB SPIRAX MARSHALL CA 20 -14 bar, Compressed air drain trap.

How to fit Main Valve assembly:

Unscrew cover bolts and lift off cover. Remove complete float assembly by undoing the two screws on the pivot frame F. Remove main valve seat and gasket and replace with a new one. Fit support frame E and pivot frame F by using two set screws but do not tighten full. Place the Float arm and complete the assembly by placing the pin. Centre the float on the valve seat. Now tighten the set screws. Refit the cover.

Available Spares:

