

Compressed Air Drain Trap

CA-10

Description :

CA-10 is a condensate drain trap of cast iron body and cover for compressed air and other pressurized gases. The trap body is equalised with the pressure the system through the balancing connection on top of the trap body.

Available Sizes and Pipe Connections :

15, 20 & 25 NB Screwed BSPT.NPT

Limiting Conditions :

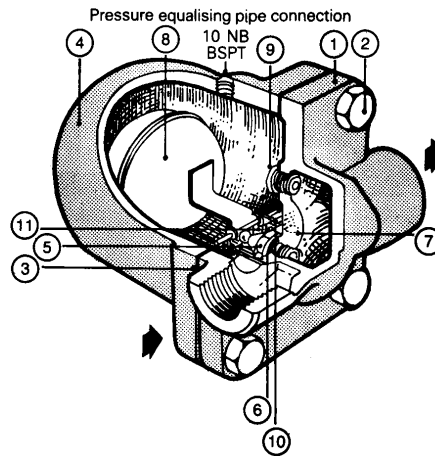
Maximum operating conditions :
 PMO - Max. operating pressure 14.26(14 bar)
 TMO - Max. operating temperature 200^o C.
 Cold hydraulic test pressure 29 Kg/cm²
 When used on liquids having a specific gravity of less than 1, the maximum operating pressures will be :

Sp. G.	Kg/cm ²	bar
0.9	14.26	14
0.8	11.92	11.7
0.7	8.76	8.6
0.6	5.09	5.0

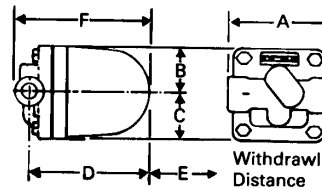
Materials :

No	Part	Material	Standard
1	Body	Cast Iron	IS 210 FG 220
2	Cover Bolts	Carbon Steel M 10 x 30 mm	H.T. IS 1367 Gr. 8.8
3	Cover Gasket	Compressed Asbestos Fibre	IS - 2712
4	Cover	Cast Iron	IS 210 FG 220
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	Plug	ASTM-A-105	ASME B-16.11
10	Support Frame	Stainless Steel Type 304	ASTM-A-240
11	Pivot Frame	Stainless Steel Type 304	ASTM-A-240

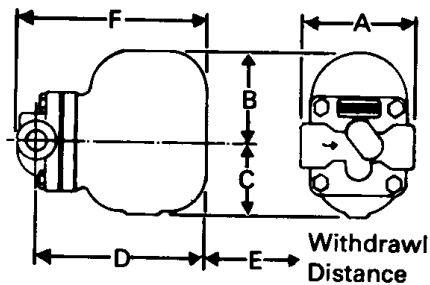
Available spares are shown overleaf.



CA - 10 - 15 NB & 20 NB



CA - 10 - 25 NB

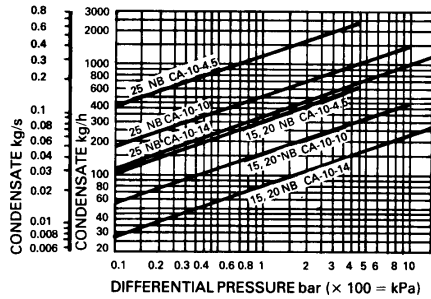


Dimensions : (approx) mm.

Size	A	B	C	D	E	G	Weight
15 NB	120	54	54	148	110	172	4 Kg.
20 NB	120	54	54	148	110	172	4 Kg.
25 NB	120	105	77	195	160	219	6.8 Kg.

General tolerance ±4

**Capacity Charts : CA 10-15 NB,
20 NB, 25 NB**



How to specify :

Example : 20 NB BSPT SPIRAX-MARSHALL
CA-10-14.

Installation :

The arrow on the name -plate must point downwards.
The arrow on the casting indicates the flow direction.

Servicing :

With suitable isolation repairs can be carried out with
the air trap in the line.

Undo cover bolts and lift off cover. When re-
assembling 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.

Open up isolating valve.

Spare parts :

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

AVAILABLE SPARES	
Main Valve Assembly with Float	A, B, C, D, E, F, G.
Two Complete Sets of Gasket (Pkt of 5)	B, T.

How to Order :

Always order spares by using the description given in
the column headed, AVAILABLE SPARES and stating
the size and type of trap.

Example : 1) Main Valve Assembly for 20 NB
SPIRAX MARSHALL CA-10-14 Compressed Air drain
trap.

How to Fit Main Valve Assembly :

Isolate and open up as above and remove existing
mechanism.

Using a little jointing paste on the thread and gasket,
fit the new valve seat to the body.

Attach the support frame E and pivot frame F to the
body with assembly set screws D, but do not tighten.

Fit the float are C to the pivot frame F using the pin G
and by moving the complete assembly centre the
valve head onto the seat orifice.

Hold the assembly firmly in place and tighten up set
screws D.

Check operation by raising and lowering the float
several times making sure that the valve head is
centering properly on the seat.

Refit cover etc. as above.

