

TELEFLO AIR CONDENSATE DRAIN TRAP/VALVE

(DESIGN , OPERATION, INSTALLATION , MAINTENANCE)

1.1 General

Model ACDT-100- Condensate AIR Drain Trap/Valve is an automatic liquid drainer for compressed air system.

1.2 Specification

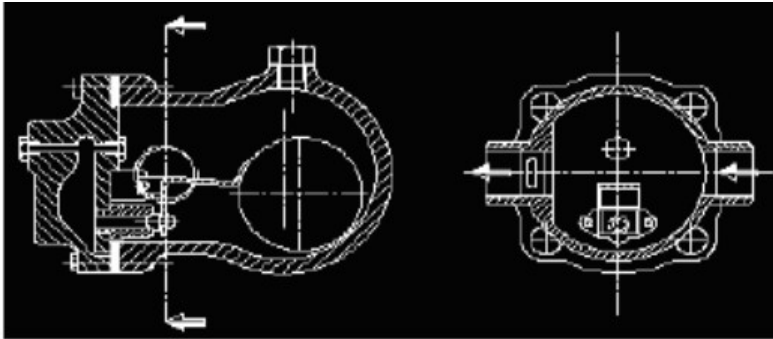
Available size -15. 20. 25, 32 & 40 NB End Connection Screwed BSPT/NPT

PMO - Max Operating pressure = 13.0 bar

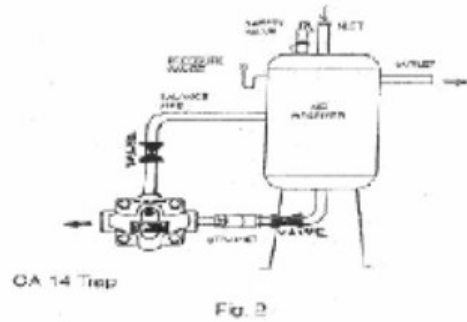
TMO - Max Operating Temperature = 127°C

Cold hydraulic Test Pressure = 26.0 bar(g)

Δ PMX Max Differential Pressure = 13 bar



SECTION DRAWING



CA 14 Trap

Fig. 2

1.3 Typical Applications

Separator on Air Main, After cooler, Inter Cooler, Air Cooler, Air Receiver Dryers, Oil Coolers and many more.

1.4 Operating Principle

Condensate causes the float to rise which opens the main valve. This will pass condensate continuously as it enters the trap.

2. INSTALLING

2.1 The Trap can be installed in horizontal or vertical plane (with top inlet) - As per our standard practice the traps supplied are suitable for horizontal plane installation, to have installation in vertical plane with top inlet either you need to indicate your requirement at the time of order or please contact our nearest customer service representative.

2.2 The trap must be fitted below the drain equipment and close to drain outlet.

2.3 The arrow on the body must point downwards. Order or please contact our nearest customer service representative.

2.4 One of the advantages of the Float Trap for draining liquid for compressed air system is that no air bleed is required for satisfactory operation. However because the trap has no air bleed; it could, under some circumstances, become air locked. If the load is low (like main drainage), then the air in the body can be displaced as water passage into it. However if the load is high (like after cooler or receiver drainage) than the air in the body cannot be displaced, a separate balance line is needed. It should be noted that the balance line is piped back to upstream side. (Ref. fig 1) the need for the balance line is to prevent air locking & can be decided by trial or error.

If in doubt, it is preferable to use the balance line arrangement.

Please note that this is required to be arranged in the piping.

2.5 A strainer is always recommended before the trap.

2.6 Lift robe avoided after the man.

3. How To Fit

3.1 General

1. Before attempting to work on trap, ensure that the trap is isolated from the rest of the pressure system. Ensure that any pressure within the isolated section is safely vented to atmosphere. Allow time for the temperature of the trap to normalise after isolation, to avoid the danger of burns.

3.2 The Main Valve Assembly

1. Unscrew cover bolts and lift of the base. Remove completed float assembly by undoing the two screws on the pivot frame, main valve seat, gasket and replace with a new one. Fit pivot frame by using two seat screws but do not tighten full. Place the float assembly & complete the assembly by placing the pin. Center the valve head on the valve seat. Now tighten the seat screws. Refit the cover. Use the tightening torque mentioned in the table 1.

Part Description	Torque (Nm)
Cover Seat	25-35
Valve Seat	25-35
Seat Screws	2.5-3

4. Maintenance

4.1 Trouble Shooting.

When trap does not pass moisture

A) Check that the differential pressure which the trap is subject to is not greater than the max differential pressure. If it is more the trap will not pass moisture since the float buoyancy will not be adequate to open the valve seat.

B) When the trap is connected to any compressed air plant. There is possibility of large quantity of water coining to the trap then air binding can take place. This can be avoided by fitting a balance pipe. (Ref. figure 1) with this arrangement the water will flow freely into the trap discharge air which passes through the balance pipe into the main system.

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