

Area: Fossil fueled power plants

Application: Transport of steam between reheat super-heater to the inlet side of the intermediate-pressure turbine.

Objective: Removal of condensate from steam mains and distribution lines to:

- Maintain steam quality between boiler and equipment.
- Protect equipment from damage by water hammer.

Condensate Load: During normal running condensate load will be zero, only during start-up and shut down sequence will traps normally be operative – loads even under those conditions will not be high.

Steam Pressure: Will normally range between 500 psi and 700 psi superheated.

Drain to Trap: Condensate flow is always designed to be by gravity.

Trap Discharge: Typically to a closed return system directly into the condenser.

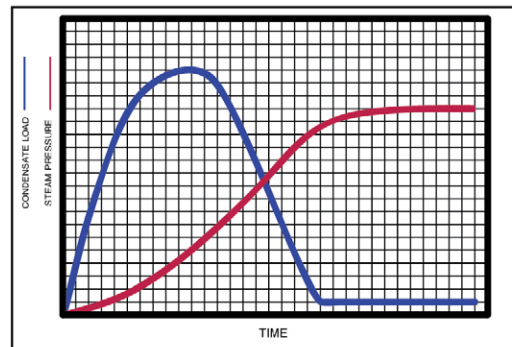
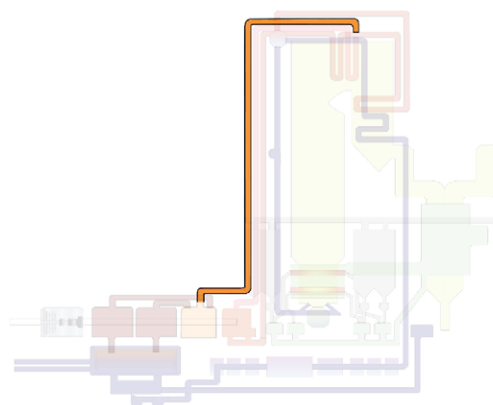
Ambient Conditions: Not subject to temperature variance being inside the power plant.

Recommended Trap: N-675 / N-1500 (Trap only or Piping King Option)

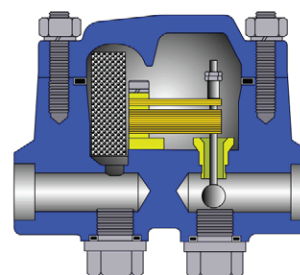
Characteristics: Robust, able to handle cyclic temperature change, good air handling, unaffected by super-heat.

NOTE: For superheat service A182-F22 material is normally used.

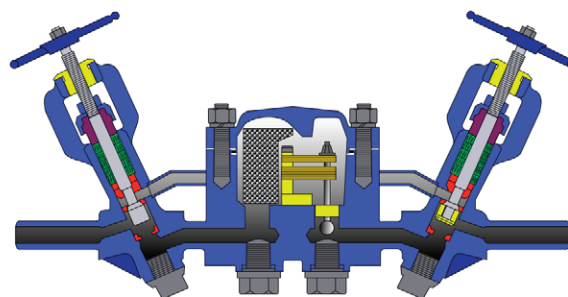
F22 CMS



Estimated Running Load for Super Heated Drip Leg Application



N Series Trap



Piping King