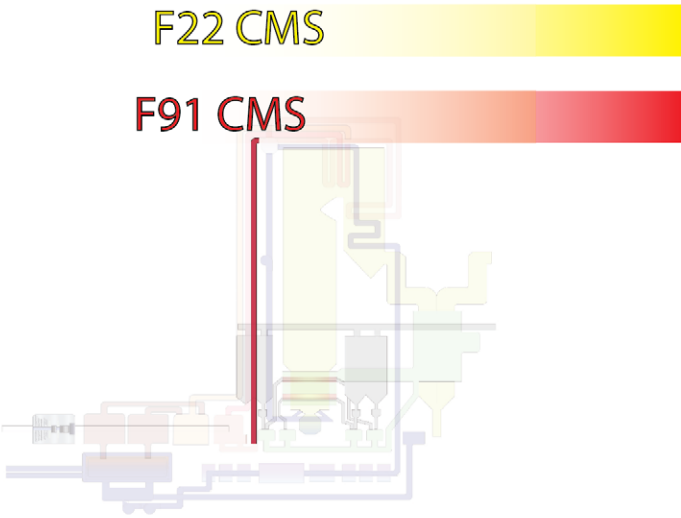
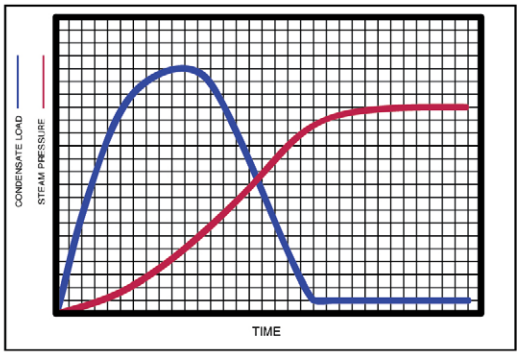
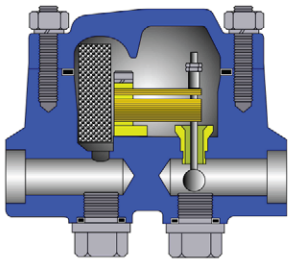
1. Main Steam Drains

Area:	Fossil fueled power plants
Application:	Transport of steam between boiler and high 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 1500 psi and 4000 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-1500 / N-2500 / N-2600 / N-4000 (Trap only or Piping King Option)
Characteristics:	Robust, able to handle cyclic temperature change, good air handling, unaffected by superheat.
NOTE:	For superheat service A182-F22 material is normally used.

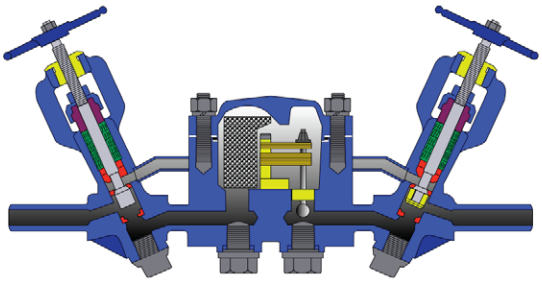




Estimated Running Load for Super Heated Drip Leg Application



N Series Trap



Piping King