

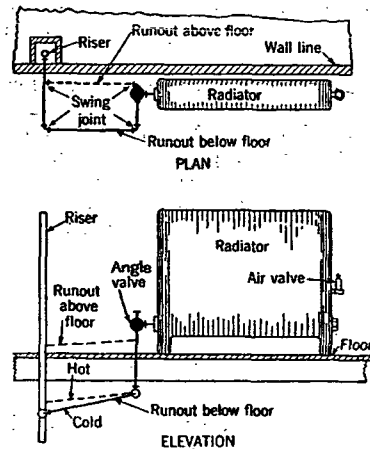


FIG. 44. ONE-PIPE RADIATOR CONNECTIONS

The dripping of high pressure mains, or of equipment using high pressure steam into low pressure or vacuum returns, is generally accomplished by the use of a flash tank or flash leg into which the high pressure steam is arranged to discharge. This tank provides the required space for the flashing from high temperature condensate to low pressure steam to take place. The low pressure steam therein generated is passed directly to the low pressure steam mains, and the condensate is discharged through a second trap to the low pressure or vacuum return. A typical arrangement of a flash leg, with sizes required for varying capacities, is given in Fig. 43.

CONNECTIONS TO HEATING UNITS

Riser, radiator and convector connections must not only be properly pitched at the time they are installed, but must be arranged so that the pitch will be maintained under the strains of expansion and contraction. These connections may be made by swing joints which permit the expansion or contraction to occur under heating and cooling without bending of pipes. To take care of expansion in long risers, either expansion joints of commercial construction or pipe swing joints are used. Anchoring of pipes between expansion joints is desirable.

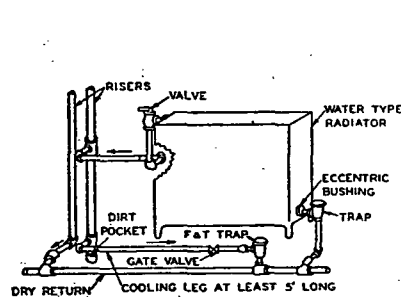


FIG. 45. TWO-PIPE TOP AND BOTTOM OPPOSITE END RADIATOR CONNECTIONS

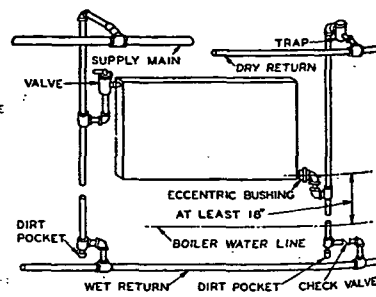


FIG. 46. TWO-PIPE CONNECTIONS TO RADIATOR HUNG ON WALL

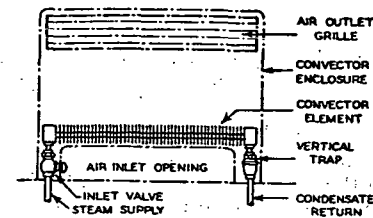


FIG. 47. TYPICAL CONVECTOR CONNECTIONS

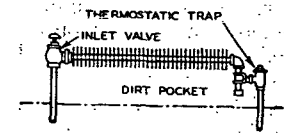


FIG. 48. TYPICAL CONNECTIONS TO FINNED PIPE CONVECTOR

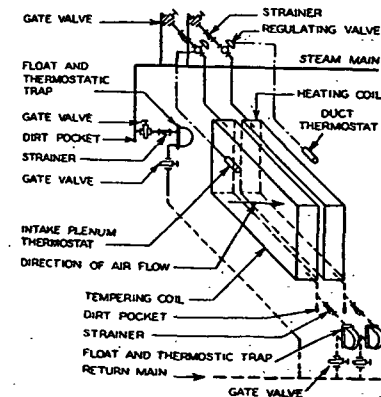


FIG. 49. TYPICAL CONNECTIONS TO FINNED TUBE BLAST HEATING COILS ARRANGED FOR SERIES FLOW OF AIR

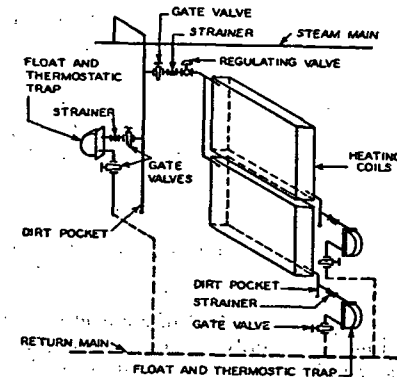


FIG. 50. TYPICAL CONNECTIONS TO FINNED TUBE BLAST HEATING COILS ARRANGED FOR PARALLEL FLOW OF AIR

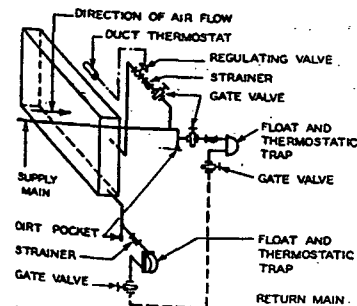


FIG. 51. TYPICAL CONNECTIONS TO FINNED TUBE BLAST HEATING COILS OF THE STEAM DISTRIBUTING OR NON-FREEZE TYPE

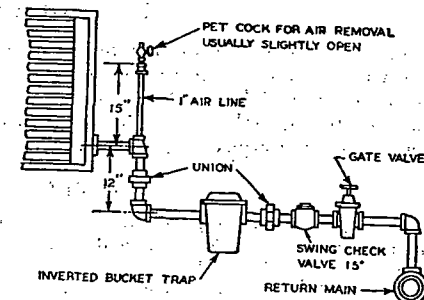


FIG. 52. TYPICAL RETURN CONNECTIONS TO FINNED TUBE BLAST HEATERS WITH HIGH PRESSURE STEAM