

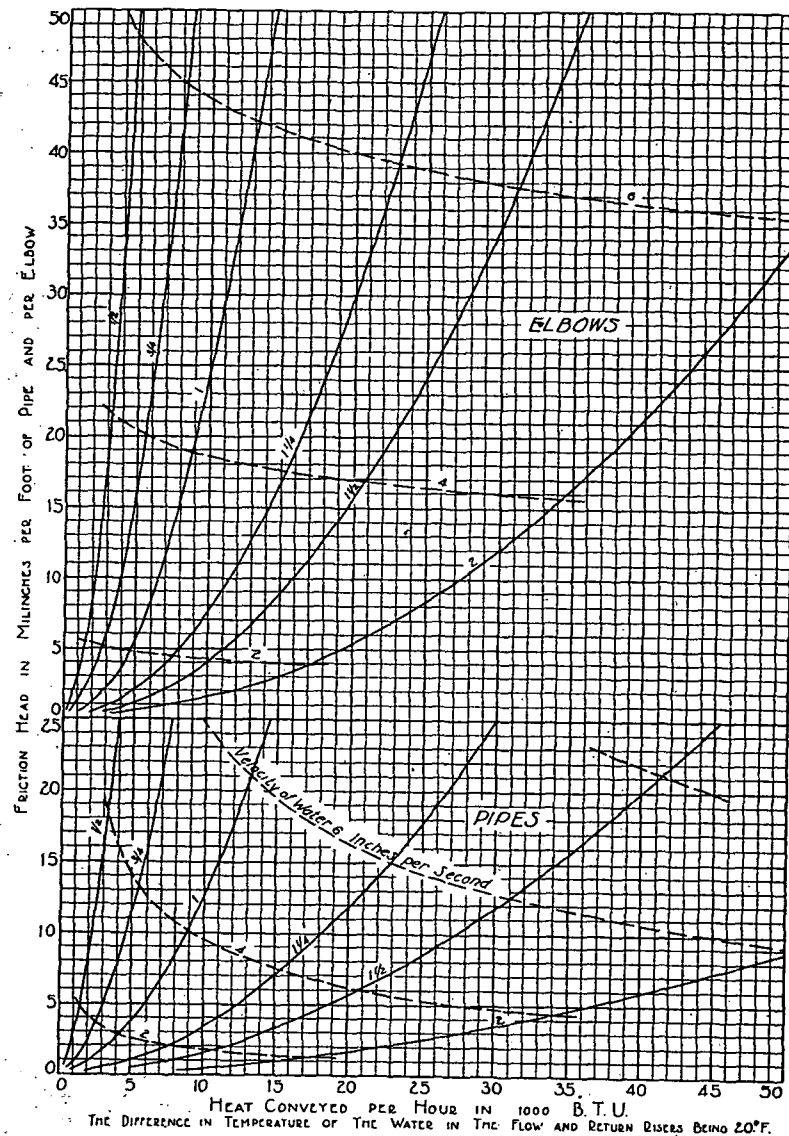


FIG. 6. FRICTION HEADS, IN SMALL PIPES AND ELBOWS, FOR A 20 DEG. TEMPERATURE DIFFERENCE OF THE WATER IN THE FLOW AND RETURN LINES

To design the major system, assume that the system is to operate with a maximum water temperature of 205 deg. and with a temperature drop of 25 deg., that the length of the horizontal main is 125 ft., that the

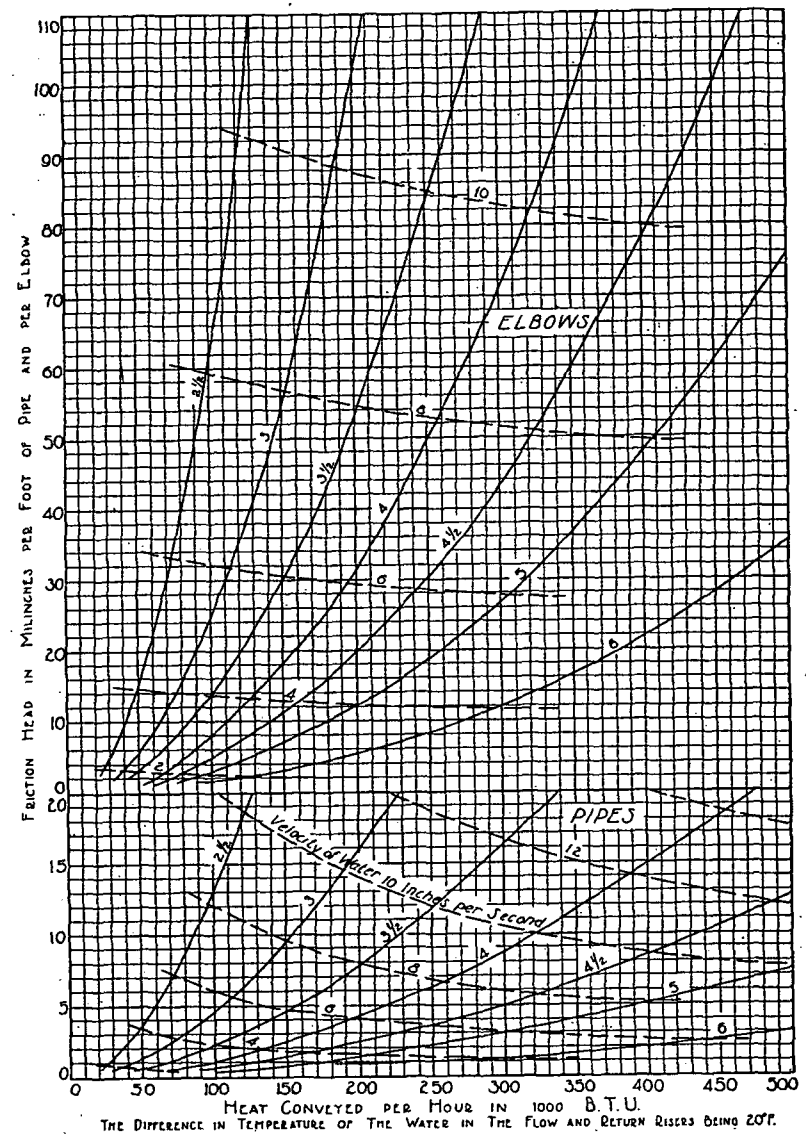


FIG. 7. FRICTION HEADS, IN LARGE PIPES AND ELBOWS, FOR A 20 DEG. TEMPERATURE DIFFERENCE OF THE WATER IN THE FLOW AND RETURN LINES

length of two risers, including heater connections, is 10 ft., and that there are seven elbows in the main, and that the vertical distance from the center of the heater to the average elevation of the main is 3 ft. 6 in.