

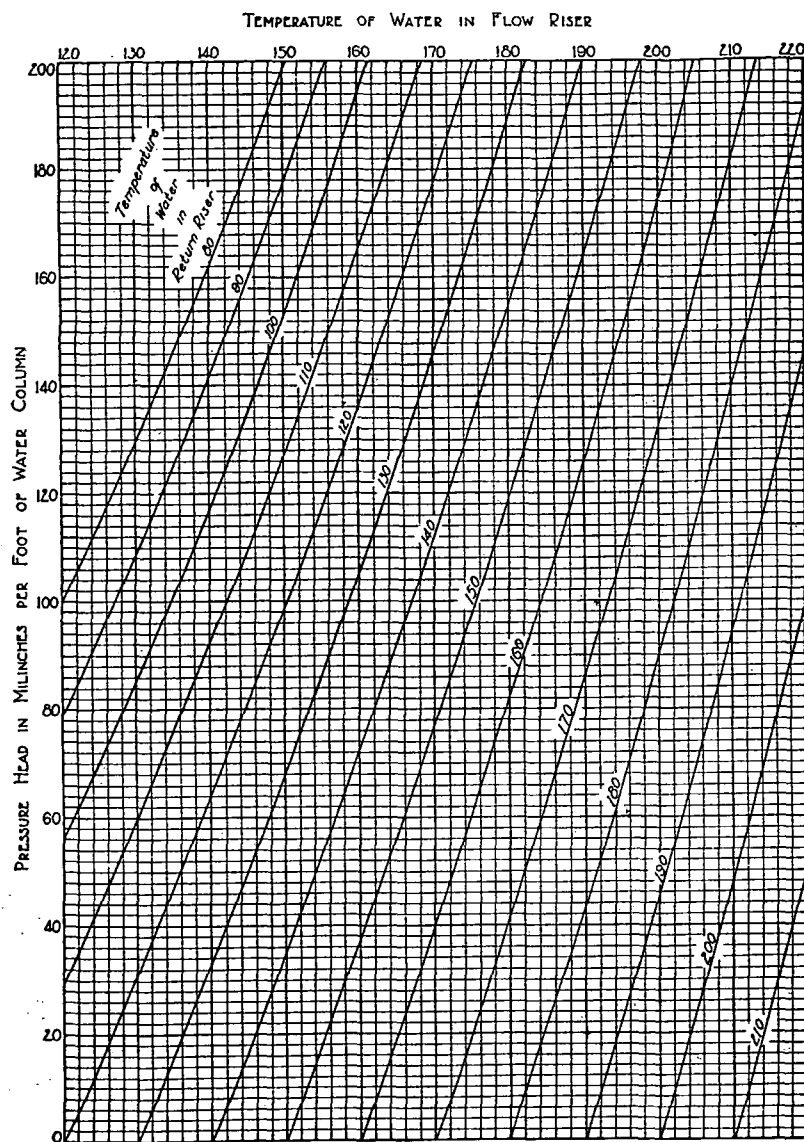


FIG. 6. PRESSURE HEADS FOR VARIOUS TEMPERATURE DIFFERENCES

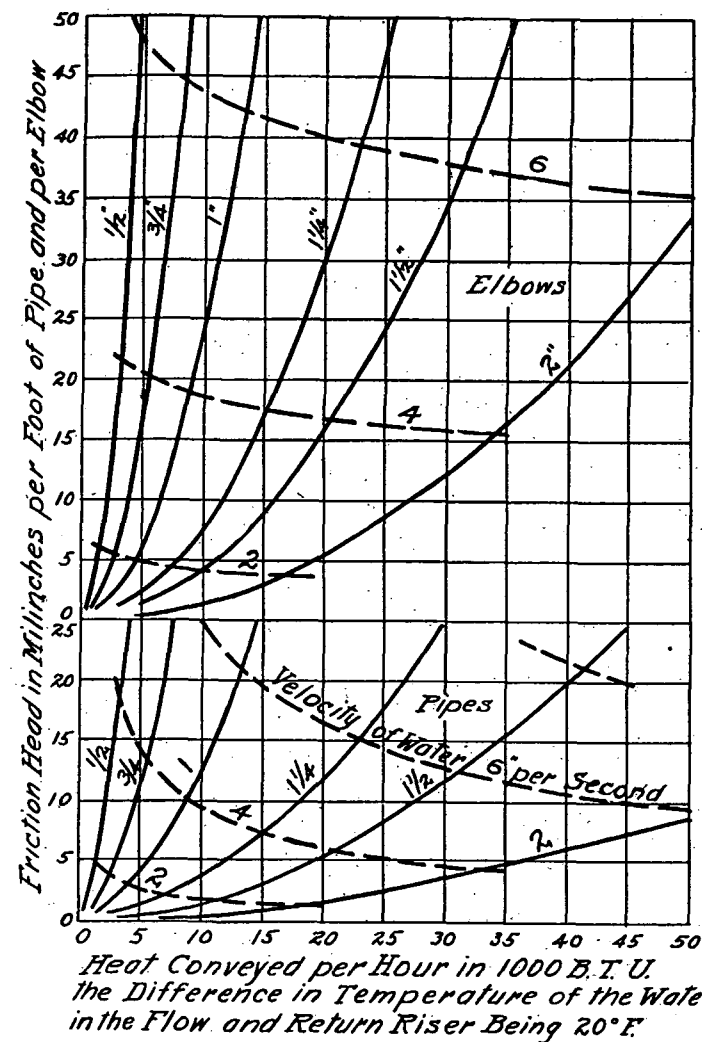


FIG. 7. FRICTION HEADS, IN PIPES AND ELBOWS, FOR A 20 DEG. TEMPERATURE DIFFERENCE OF THE WATER IN THE FLOW AND RETURN LINES

the friction heads in the pipe and in the elbows can be calculated by known formulae, or, they can be determined more readily from the diagrams of Figs. 7 and 8. It will be noted from Fig. 7, that for a 1-in. pipe, for 12,000 B.t.u. per hour, and for a temperature drop of 20 deg., the friction head is 18 millinches per foot of pipe and 35 millinches