

## **Physical characteristics influence on linear-head losses in steel pressure pipes**

Calculation of pressure drops in hydraulic systems is still of great importance, particularly for the choice of pumps and sites for potable water tanks. With a view of simplification, this study will present new formulas and new nomographs of pressure drops in the pressure conduits. It provides a maximum relative scatter at the rate of 1% compared to the results obtained from Colebrook formula for the absolute roughnesses  $K = 2 \text{ mm}$ ;  $K = 1 \text{ mm}$ ;  $K = 0.1 \text{ mm}$ .

These formulas are based on theory and on some field trials.