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(57) Abstract

A Coriolis effect densimeter which produces density output data of improved accuracy by embodying the principal that the natural frequency of a vibrating tube filled with material decreases with an increase in the material mass flow rate. High accuracy output data is achieved by measuring the density and the mass flow rate of material through the vibrating tube, correcting the measured density to compensate for the effect of the mass flow rate, and correcting the mass flow rate correction of the density measurement for changes due to temperature.

