Total reliability: The Coriolis mass flowmeter principle

Yokogawa Coriolis Mass Flow meter “Rotamass” employs high Precision measurement principle, which is unaffected by fluctuating line pressure and changes in viscosity or temperature. Given difficult applications with high viscosity medium (slurries or pastes) to tough environment conditions, this will not deter the Rotamass from performing its precise accurate measurement.

The Coriolis principle enables the precise mass flow rate, density and temperature measurement, in return calculates the volumetric flow rate, flow velocity and even the possibility to provide the concentration of a medium mixture.

The detector tubes are excited by an electromagnetic driver at an ideal resonant frequency, when the fluid passes through the tubes, the effect of the Coriolis forces deflects the tubes resulting in a phase shift between the frequencies picked up by the sensor coils. This phase shift is part of a natural phenomenal that provides the direct equivalence to the actual mass flow rate of your process medium.

The interaction of the tubes will result in an instantaneous change of density measurement, whenever the frequency of the tube changes, users will be reflected with immediate online knowledge of their own medium density value.

Combined with modern digital technology and signal processing, this measuring principle supersedes conventional flow meter technology with no moving parts forming as part of its sensor construction, bringing the total cost of ownership to its minimum. Rotamass, the Coriolis Mass flow meter, is undoubtedly a highly innovative instrument providing unsurpassed accuracy, reliability, stability and repeatability for your process.

Design and Manufactured by Yokogawa