METHANE FROM FLARING TOOLKIT



Flow: Coriolis Flow Meter

How do I measure flow? > Flow: Coriolis Flow Meter

Coriolis meters measure the mass flowrate of a stream by making use of the Coriolis effect.

How it Works

Fluid flows through a tube which is forced to vibrate in a harmonic oscillation by an external driver. The tube can be straight or 'U' shaped.

The momentum of the fluid causes the already-oscillating tube to vibrate in a slightly different way. This change in the mode of vibration is proportional to the mass flow rate of the fluid flowing through the tube and can be measured with external. The mass flow rate of the fluid can then be determined.

IMAGE TO FOLLOW

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- Size limitation (16" / 400mm largest diameter currently **Different**) because of mass flow and density with a single device
- Can have difficulty measuring the flow rate of low pressure gas
- It can be subject to issues with piping stress and vibration
- Due to these limitations, it has limited applicability on main flare headers

Go Deeper

- Emerson
- Krohne
- Endress & Hauser

Case study

No case study available at this time.

How do I measure flow?



Flow: Ultrasonic & Sonar Clamp-on Flow Meters



Vortex Flow Meter



Flow: Ultrasonic Flow Meter



L2F Optical Flow Meter



Flow: Scintillation Optical Flow Meter

