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PFS Venturi Nozzle

Brand: Primary Flow Signal

Short Description

1.21% to 1.74% Uncalibrated Uncertainty Liquids and Gases, Lower Loss Line size: 2.5 to 20 inches Head loss (permanent pressure loss) in % of Differential: 5% to 20% Recommended Pipe Reynolds Number: Greater than 150,000 for basic accuracy

Description

The Venturi Nozzle is a hybrid device having an inlet, convergent section identical to the ISA 1932 nozzle and an outlet, divergent section similar to a Venturi tube flowmeter. This results in a unique location for the low pressure tap in the throat. This design has a lower pressure loss than the ISA 1932 nozzle and the long radius nozzle. They are generally used for the measurement of liquid or gas flows including steam, erosive, high-velocity and non-viscous media. They do not rely on a sharp edge (which can deteriorate over time) to maintain accuracy and therefore offer excellent long-term accuracy with less wear, reducing the possibility of distortion. They are often used for high accuracy flow measurement in power plant applications.