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- Orifice plates can be made of a material different that the system of piping but material of the Venturi tube must be same as that of the piping
- Orifice plates are placed between flanges requiring gaskets

that may leak but Venturi tubes are welded in the system and there is no question of a leakage

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The pressure recovery is much better for the venturi meter than for the orifice plate. The venturi tube is suitable for clean, dirty and viscous liquid and some slurry services. The rangeability is 4 to 1; Pressure

loss is low; Typical accuracy is 1% of full range; Required upstream pipe length 5 to 20 diameters; Viscosity effect is high; Relative cost is medium

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For those who want to use an orifice plate or a Venturi tube the standard ISO 5167 and its associated Technical Reports give the instructions required. However, they rarely tell the users why they should follow certain instructions. This book helps users of the ISO standards for orifice plates and Venturi tubes to understand the reasons why the standards are as they are, to apply them effectively, and to understand the consequences of deviations from the standards.

Orifice Plate Flow Meter. ZY Flowmeter offers a wide range of high quality primary Differential pressure flowmeters for industrial and commercial applications. We offer complete Orifice Plate, orifice plate assemblies, Orifice Accessories, flow nozzles, venturi tubes, wedge and cone meters. These instruments are engineered to meet the most demanding flow metering applications and required standards including ASME MFC-3M, ISO 5167, AGA 3, PTC-6,

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Calculates the expansibility factor for a nozzle or venturi nozzle, based on the geometry of the plate, measured pressures of the orifice, and the isentropic exponent of the fluid. $\epsilon = \left\{ \left(\frac{\kappa \tau^2}{\kappa \kappa - 1} \right) (1 - \beta^4) \left[1 - \frac{\tau (\kappa - 1)}{\kappa (1 - \tau)} \right] \right\}^{0.5}$

Venturi meter and orifice plate effects are two main and very important phenomena in fluid mechanics sub field of mechanical engineering. In this post the effect of venturi meter and orifice plate on the fluid flow will be discussed and complete work will be presented in the form of report.

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