

SoniCone

An advanced solution for high velocity flow measurement



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The cone shape element held concentrically in the center of the venturi and the contour shape of the inlet pushes the high velocity fluid to the throat. This will create linearizing the velocity profile across the cross-section of the pipe. This brings visible influence to its accuracy of measurement and enable it to apply the measuring occasion such as no straight length, flow disorder, bi-phase fluids and so on.

The diverging section at the exit gives a substantially less pressure loss across the meter. This special combined design of nozzle, venturi and cone offers a higher turn down ratio in flow rate measurement than any other DP instrument.

The single block cone and the holding pin arrangement ensures the reliability for high pressure service and also reduces the error in fabrication.

Designed for High Velocity

This particular design at the inlet pushes the high velocity fluid to the throat by gradual increment in velocity and this reduces the contraction of the jet. The gradual pressure reduction is achieving by a nozzle contour at the inner periphery and the sharp cone at the axis.

Rugged Design

This unique design has no weld joint in wetted area and the coaxial installation of cone inside the venturi gives a higher repeatability in results.

This is a reliable model for high pressure, high temperature applications.

Low Loss

In this, the element restricts the flow very gradually and the gradual area increment after the throat will recover the losses. The special exit design of the meter allows to measure flow rate very accurately without significant pressure loss.

Wide Range

This fabulous model gives a linear output for a loner range of flow rate. It ensures higher turn down and steady results even for low flow rates.

Less Spacing

With its unique design, the open annular space appears to constrict flow by the combined restriction at the axis and inner periphery. This will linearize the velocity profile with offering higher accuracy in measurement.





