



Venturi Tube Flow Meter

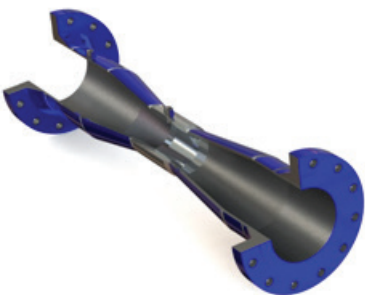
Venturi tubes have long been specified and used in a multitude of flow measurement applications. The versatility of measurable fluids, line sizes, and material of construction available to a Venturi tube flow meter has made it a highly recognized differential pressure flow element.

Armstrong offers classical style Venturi tubes – short form and long form – manufactured in accordance with applicable ASME codes. Also available is the Halmi Venturi tube which features superior performance and design with shorter laying lengths and reduced cost.

General Venturi Specifications	
Accuracy	±0.5% up to ±0.25% with calibration
Beta Ratio	Customizable between 0.30 through 0.75
Permanent Pressure Loss	5% to 20% dependent on Beta Ratio
Line Size	3/8” through 144” (9.525mm through 3657.6mm)
End Connection	Flange, weld, plain end, mechanical joint, or other
Material of Construction	CS, SS, Duplex SS, Chrome Moly, Aluminum, Hastelloy, Monel, Inconel, Zirconium, Titanium, Tantalum, Cast and Ductile Iron
Operating Pressure and Temperature	As limited by the materials of construction

Common Applications

- Clean gases and liquids
- Potable water
- High pressure steam
- Combustion air
- Compressor surge control
- Process measurement (alcohol, ethylene, chlorine, etc.)
- Gas oxygenation
- Storm sewage
- Solids-bearing fluids
- Higher viscosity liquids



Available Models and Configurations

Classical Venturi

- In-line, insert, and eccentric designs
- Flanged, weld-in, socket weld, butt weld connections
- Meter runs

Bi-Directional Venturi

- Classical and Halmi designs
- Cast, fabricated, plastic
- In-line, insert
- Flanged, weld-in, butt weld

Halmi Venturi

- Fabricated
- In-line, insert
- Flanged, weld-in, socket weld, butt weld, threaded, grout-in, wafer
- Meter runs, static tap, low flow, elbow mount

Plastic Venturi

- Insert
- Flanged, weld-in, grout-in
- Meter runs, static tap