

Product Introduction

The Daniel® Venturi Tube provides a reliable, low-maintenance solution for fluid measurement, offering high accuracy and minimal pressure loss.

Its rugged, smooth design minimizes buildup, making it ideal for measuring solid-laden fluids, slurries, and multi-phase flows.

With over a century of proven performance, the Venturi Tube excels in measuring gas, liquid, and steam across oil and gas processing, petrochemical industries, power generation, and water treatment applications.

Designed for durability and efficiency, it delivers precise results while reducing pumping and operating costs.

Design Specifications

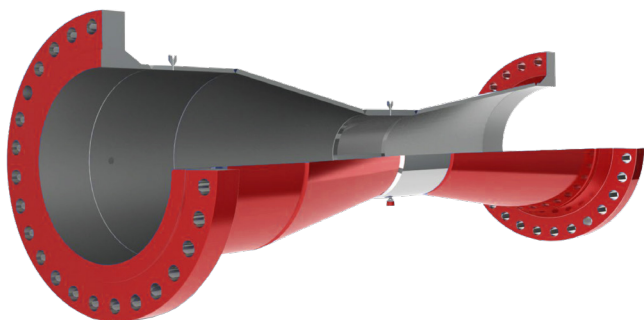
- **Sizes:**
2–24 inches (standard); larger sizes available.
- **Pressure Ratings:**
ANSI 150 to 2500.
- **Beta Ratios:**
0.4, 0.5, 0.6, 0.7 (others available upon request).
- **Material Options:**
Stainless steel, carbon steel, duplex alloys, or any weldable material.
- **End Configurations:**
Flanged, beveled, threaded, wafer.
- **Compliance:**
Built to ISO 5167-4 standards; CE-PED 2014/68/EU certified.

Product Information

The Venturi Tube utilizes a gradually sloped profile to generate differential pressure for precise flow measurement. With customizable construction and beta ratio options, it adapts to a wide range of applications. This robust design ensures long-term performance with minimal maintenance, making it a preferred choice for challenging environments. Its low permanent pressure loss reduces energy consumption, improving operational efficiency.

Typical Applications

- Custody transfer for liquids and gases.
- Measurement of slurries and solid-laden fluids.
- Steam measurement in power generation.
- Flow monitoring in water and wastewater systems.



How Daniel® Solves Your Problems!

Potential Error	Impact on Operations	Solution
Seal Degradation	Leads to leaks and measurement inaccuracy.	Precision-engineered seals ensure leak-free performance.
Improper Plate Alignment	Reduces flow measurement accuracy.	Permanently attached plate carrier ensures correct alignment.
Corrosion in Sour Service	Shortens lifespan and increases maintenance.	Optional NACE-compliant materials resist corrosion.
Spillage During Plate Changes	Increases operational risks and costs.	Inline plate changes eliminate the need for fitting removal.
Non-compliance with Standards	Risks penalties and measurement errors.	Full compliance with API 14.3 ensures operational integrity.

Product information



Online Calculators



Online Store



Daniel® Measurement App



Daniel® Measurement & Control
www.daniel.com

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Application Sites

- Oil and gas pipelines.
- Petrochemical and industrial processing facilities.
- Power plants and refineries.
- Water and wastewater treatment plants.

Features and Benefits

- **High Accuracy:**
±0.8% standard accuracy, with repeatability of ±0.1%.
- **Low Maintenance:**
No moving parts or sharp edges reduce wear and downtime.
- **Versatile Materials:**
Suitable for harsh environments with customizable options.
- **Energy Efficient:**
Minimal pressure loss reduces pumping and operational costs.
- **Flexible Design:**
Supports a variety of sizes, end configurations, and materials.

Decades Proven. Field Chosen.

With over 90 years of industry experience, Daniel® Measurement and Control is a trusted leader in flow measurement and control solutions.

Our innovative, high-performance products are designed to deliver accuracy, reliability, and efficiency in the most demanding applications.

Backed by a legacy of excellence, Daniel® solutions continue to set the standard for precision and durability, helping customers worldwide achieve operational success with confidence.

DANIEL