

# Primary Flow Signal

flow metering solutions

reliable

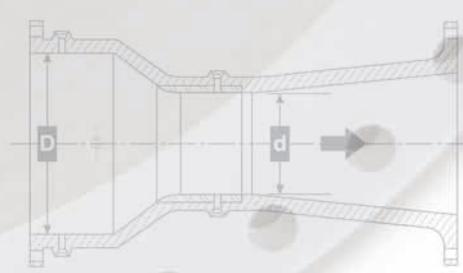
accurate

versatile

MATING FLANGE OF  
PROCESS PIPING

LOW  
PRESSURE  
TAP

GAUGE  
INDICATOR



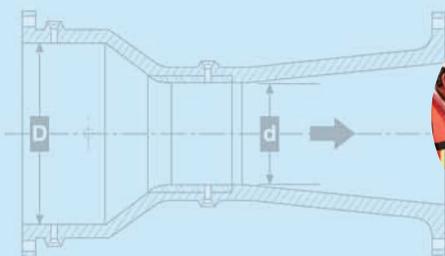
# www.primaryflowsignal.com



HVT-WM Well  
Flow Meter



HVT Halmi  
Venturi



Technical  
Expertise



## Headquarters

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[www.primaryflowsignal.com](http://www.primaryflowsignal.com)

*Primary Flow Signal, Inc. products and operations are certified to industry standards for safety and performance. Visit our web site for details.*

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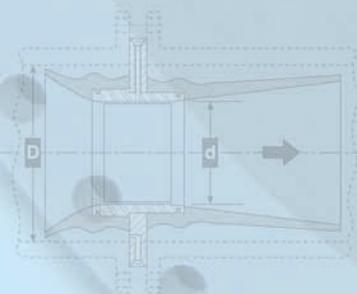
**P**primary Flow Signal, Inc. was founded by the late Mr. Dezsoe Halmi, one of the foremost experts in flow measurement, who is credited with inventing the UVT (Universal Venturi Tube) and developing numerous patented products. These innovations, along with an unwavering dedication to technical support and customer service, formed the basis on which the company was built.

Mr. Halmi's legacy of innovation and dedication has helped the company earn a predominant position and reputation in the field of accurate and reliable flow measurement, with proponents and satisfied users throughout the world. The company has continued to thrive and expand on a global basis, continuing its resolute commitment to the manufacture of high quality, extremely accurate flow measurement products.

Primary Flow Signal, Inc. has the industry's largest team of expert hydraulic engineers providing best-in-class metering products, support, and service worldwide with offices in: Cranston, RI (headquarters); Houston and Odessa-Midland, TX; Tulsa and Altus, OK; Seneca, SC; as well as locations in Edmonton, AB, Canada; Beijing, China; and Dubai, United Arab Emirates.



**All PFS products are proudly made in the U.S.A.**



A grayscale photograph of industrial flow metering equipment, featuring large pipes and complex machinery. The image is partially obscured by a dark overlay containing text and decorative white circles and lines.

# **the proven leader** **in flow metering solutions**

**Anything less than completely accurate flow metering is not an option. Flow measurement is critical for basic efficacy and safety for delivering core services, such as water and energy, as well as monetizing commodities like drinking water and oil. Many technologies claim to be the best at flow metering, but only differential producer type flow metering is singularly proven for long-lasting accuracy in the toughest applications and harshest environments.**

“More than one million HVT-Halmi Venturi meters successfully in operation worldwide...”

# the pfs advantage

## The Preferred Source

- The industry's largest full-time staff of engineers and expert technicians in differential producer type flow metering
- Expert field and engineering support simply not available with other suppliers
- Complete in-house design, machining, fabrication, welding, NDT/radiography, calibration, and finishing
- High-speed machining, skilled manufacturing, and heavy-manufacturing capabilities
- Robust capital and banking resources that permit PFS to undertake contracts of substantial size
- The resources to commit to long-term agreements that guarantee supply and pricing over a span of years, as required
- More than 30 years of independent calibration data demonstrating the accuracy and reliability of our products
- Peace-of-mind knowing that more than one million HVT-Halmi Venturi meters are successfully in operation worldwide

## Special and Custom Metering Designs

Unlike fabricators with limited understanding of differential technology, PFS's decades of design, testing, and manufacturing experience uniquely qualifies us to design and deliver a complete turnkey solution for measurement and control applications.

## Rehabilitation and Retro-Fit Solutions

Our expertise in differential metering is increasingly utilized by customers to perform the maintenance and rehabilitation necessary to maximize the incredibly long-lasting performance of venturi meters. With a single meter rehabilitation and inexpensive upkeep of peripheral instrumentation, our engineers can help assure venturi flow meters reach their full potential. Venturi meters are proven to be capable of continuous high performance for 75 to 100 years, or even longer in certain conditions.



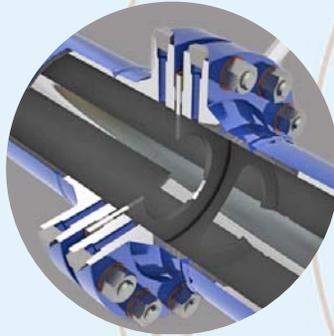
EGR Meter



Waste Water Meter



HVT-Halmi Venturi



Orifice Flow Element



Halmi-Parshall Flume



WedgeType™

### Reliable and Accurate Differential Producer Type Flow Meters

PFS offers a range of venturi primary flow elements, orifice primary flow elements, open channel flow elements, and proprietary WedgeType™ primary flow elements. Our patented metering products are based upon decades of design research and offer high accuracy, repeatability, and flexibility to meet the unique needs of our customers.

#### Venturi Primary Flow Elements

The HVT-Halmi Venturi flow element is an optimized, modern version of the Classic Venturi, designed, developed, and perfected by the founder of PFS. Its proprietary design and high-quality materials deliver highly accurate and reliable flow measurement  $\pm 0.25\%$  (lab) and  $\pm 0.50\%$  (field) for pressurized line fluids, including liquids, gasses, and steam.

#### Orifice Primary Flow Elements

PFS's orifice flow elements are ideal for measuring clean liquids, gases, and low-velocity steam flow. Our design offers optimum flexibility for diverse and existing piping schemes, is easy to install, and makes for low-cost replacement.

#### Open Channel Flow Elements

Our Halmi-Parshall flume is an open channel flow element ideal for non-pressurized wastewater discharge measurement. Critical accuracy, low head loss, an adjustable laying length, and removable restrictors for adjustable flow meter capacity offer a distinct advantage over incumbent meter technologies.

#### WedgeType™ Primary Flow Elements

The WedgeType™ flow meter brings differential metering performance to harsh service, highly viscous or contaminated line fluids, such as raw sewage, sludge, tar sand, cement, or molten sulfur.



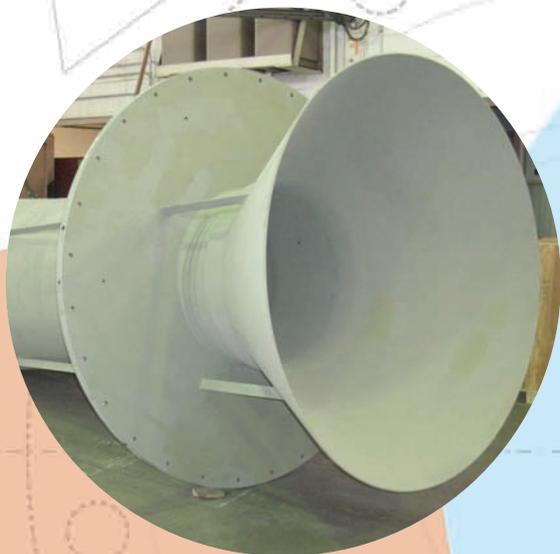
144" Meter

“Time and again, customers worldwide turn to PFS to solve their metering challenges...”

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PROCESS PIPING

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**P**rimary Flow Signal, Inc. was founded in the design, manufacture, installation, and support of differential producer type flow metering equipment and accessories. PFS's products serve a wide range of industries, providing reliable solutions for pressurized, high-accuracy metering for liquid (high and low viscosity), gas, and steam applications.

PFS's versatility brings unwavering performance to a host of applications, including:

- Water and Wastewater
- Power Generation
- Industrial
- Chemical
- Other Harsh Environment Applications
- Oil and Gas
- EGR Automotive
- Cryogenics

PFS is one of the largest manufacturers of differential producer type flow metering products. Our decades of expertise deliver industry-leading engineering support and service before and after installation. Time and again, customers worldwide turn to PFS to solve their metering challenges when other metering technologies fall short in terms of accuracy and longevity. Our vertically-integrated manufacturing facilities mean the highest possible quality control and cost savings for our customers.



All PFS products are proudly made in the U.S.A.

HIGH  
PRESSURE  
TAP