

## HVT-BCI Cast Iron Flow Meter

### Accurate, Reliable Metering for Bi-Directional Applications

**P**rimarily Flow Signal, Inc. is a leader in the design and manufacture of Venturi differential flow meters. Field-proven in hundreds of thousands of installations worldwide, differential metering ensures the most accurate and reliable metering available anywhere. Through innovation in design and manufacturing, coupled with peerless engineering and technical expertise, PFS delivers customers versatile, ultra-long lasting liquid and gas metering solutions for a broad range of applications and industries.

The **HVT-BCI** flow meter is specifically designed to deliver highly accurate, bi-directional measurement. In instances where the same line is utilized for different delivery and/or control functions – like air or gas

oxygenation, redistribution of storm sewage, and aquifer storage and recovery – the HVT-BCI provides highly accurate metering for changing system conditions and process objectives.

PFS can custom manufacture the HVT-BCI in a wide variety of configurations to fit any application that needs for the industry's most accurate metering solution. Incorporating the HVT-SM Sealed Metering System allows measurement of solids-bearing (contaminated) line fluids, as well as higher viscosity liquids. Adding PFS products like the PFS-FM FlowMaster can further extend the intrinsic benefits of the HVT-BCI primary flow element by providing fully integrated control, management, and reporting capabilities.

#### HVT-BCI Flow Meter Features

**Accuracy:**

- +/-0.50% of actual reading
- +/- 0.25% of actual reading or better based on hydraulic calibration

**Line size:** can be designed to most sizes as required by application

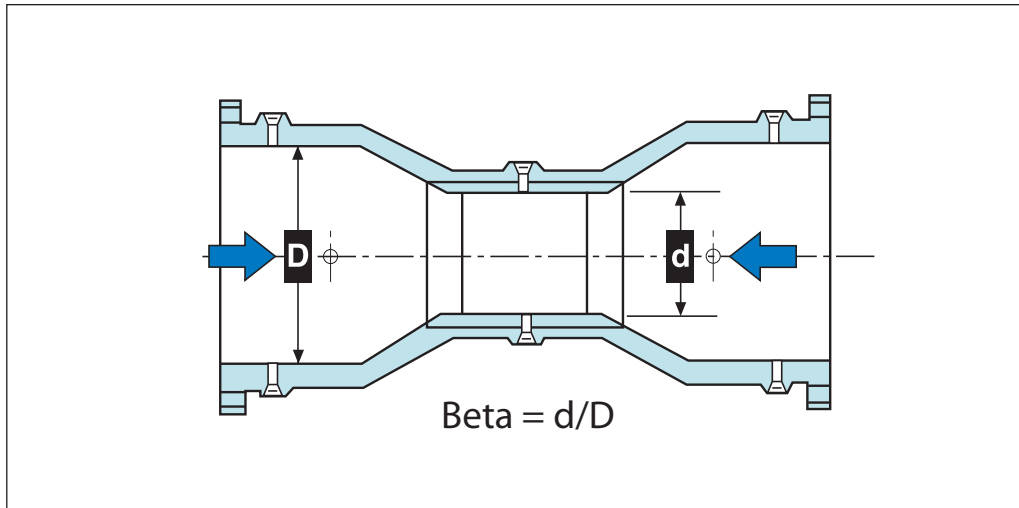
**Materials:** 304 stainless steel, bronze, Duplex stainless steel, Chrome Molybdenum, aluminum, Hastelloy® B&C, Monel®, Inconel®, zirconium, titanium, tantalum, cast and ductile iron

**Temperature:** to 150° F standard; or any as required by specification

**Line pressure capacity:** from full vacuum to the limits of materials

**Permanent pressure loss:** varies from 5% to 20% of differential depending on application conditions and Beta ratio

## HVT-BCI



**Liquid Applications:** All impulse piping must have minimum 8 cm per foot, DOWN to the flow transmitter(s). Transmitter should ideally be located below the center line of the meter.

**Gas Applications:** All impulse piping must have minimum 8 cm per foot, UPWARDS to the flow transmitter(s).

When installing: 1) orient pressure taps horizontally; 2) provide adequate clearances; 3) tighten flange bolts to industry flange assembly standards to avoid leakage; 4) ensure tolerances are within industry standards.

### Support and Service

Our full-time, dedicated service group offers 100% trustworthy support and recertification for flow meters — whether our own or a competitor's brand. Our meter proving services are performed by our trained technicians and the latest testing equipment. Custom meters and instrumentation options for your application are readily available. Many of our products are in stock and ready for immediate shipment.

### Certifications

ISO 9001, ASME S, U, R; European PED Module H; and other internationally recognized certifications, such as GOST, IBR, and CRN.

### Worldwide Support

We serve customers worldwide delivering proven differential and turbine meters, and fire suppression solutions. Our U.S. offices are located in Rhode Island (headquarters); Houston and Odessa-Midland, TX; Tulsa and Altus, OK; Seneca, SC. We also have offices in Edmonton, Alberta, Canada; Beijing, China; and Dubai, United Arab Emirates.

**Contact your PFS, Inc. Field Application Engineer for assistance.**



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



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