Meeting the Challenges of Subsea Flow Measurement

Hoffer

There is only one clear choice for every critical, complex flow measurement application in the offshore drilling, production and well-servicing environment: Hoffer Flow Controls. The HO Subsea Flowmeter Series provides users with multiple features and benefits that are unavailable from any other flowmeter company.

OUTSTANDING FEATURES

- Operating depths to 20,000 FT or more.
- Robust flowmeter internals built to meet Military standards for high shock (MIL-S-901D) and vibrations (MIL-STD-167-1) requirements.
- A flowmeter with a response time measured in milliseconds.
- Flowmeter “housing” is typically custom designed to fit into the customers existing footprint/space.
- Designed to withstand the temperature/pressure extremes of a subsea environment.
- Flowmeter design includes integral flow straighteners.
- Wide flow range capability is ideal for subsea applications.
- Flowmeter “housing” can be designed with a wide variety of end connections including SAE, Grayloc®, Techlok®, ANSI, NPT, MS, DIN and many others.
- Subsea connectors are installed in unique “riser” design on flowmeter housing.
- Design and construction compliance to API6A/17D when required.
- A variety of construction materials are available including 316, 316L, Nitronic 50 and 60, Duplex 2205 and others.
- ABS-CDS, DNV, Lloyd’s and other certification compliance available.
- Multiple electronic outputs and interfaces available.

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Grayloc® is a registered trademark of Oceaneering, Inc.  Techlok® is a registered trademark of Vector Technology Group
Our flowmeter expertise has enabled us to supply flowmeter solutions for BOPs, ROVs, wellhead additives, subsea production systems and a variety of other subsea flow applications. With more than 40 years in the flowmeter business, we continue to set the standards for accuracy, reliability, durability, economy and integrity. In fact, no other company offers you more flow measurement solutions for subsea flow applications than we do. Put us to the test, and find out how Hoffer turbine flowmeters can resolve your challenging subsea flow applications.

**SPECIFICATIONS**

**Overrange:** 150% of maximum flow (intermittently).

**Linearity:** ±0.5% of reading (±0.25% typical) over tabulated linear flow range.

**Repeatability:** ±0.1% (±0.05% typical) over tabulated repeatable range.

**Available Temperature Range:** -100° to 450°F.

**Pressure Drop Characteristics:** 4 to 5 PSI at maximum linear flow rate at one CSTK.

**Bearing Styles:** Ceramic hybrid ball bearings and sleeve bearings in tungsten carbide and hard carbon composite are available.

**Calibration:** 12 point NIST traceable calibration is standard. Viscosity calibrations optionally available.

**Outputs:** TTL/CMOS, 0-10 VDC, Open collector pulse forms. 0-10 VDC and 4-20 mA analog outputs. RS-485 serial port (for flow rate only). Others available on request.