



# McCROMETER

## DASTECS S.R.L.

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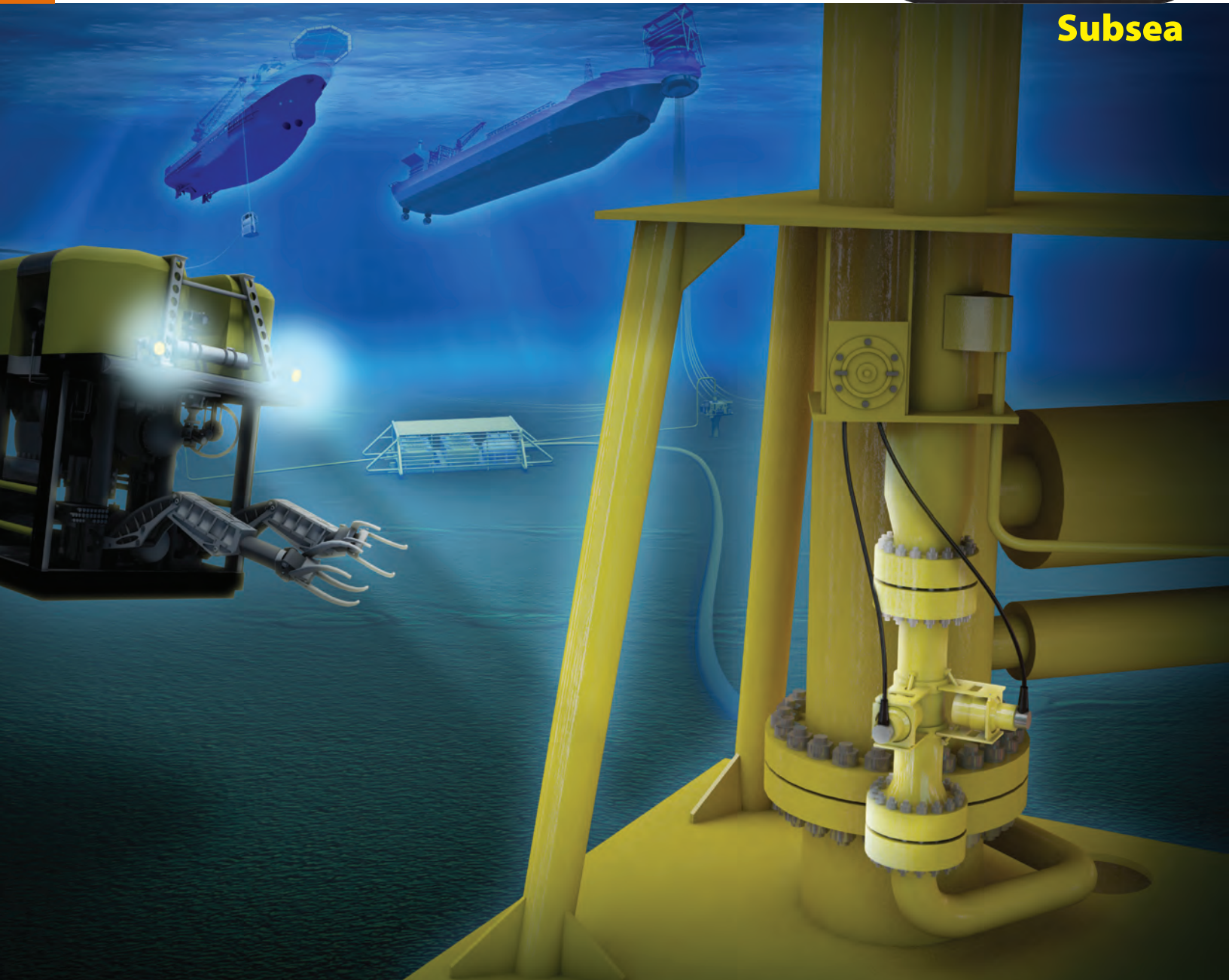
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there from the start



**Subsea**



## Subsea flow measurement

*The V-Cone Subsea flow meter has been in operation from the North Sea to the Gulf of Mexico over decades, built to stand the test of time.*

# earning your **trust** through years

When a flow meter is specified for service thousands of meters below the ocean in pressures up to 15,000 psi, there are no second chances. Working with a vendor with a proven track record, third-party performance testing and experience manufacturing to the most stringent international standards is a must. McCrometer V-Cone® Subsea offers all of this and more for your peace of mind.

### **Saving** Space and Weight

The advanced differential pressure V-Cone Subsea flow meter technology naturally conditions the flow reducing pipe requirements to fit into tight spaces. The V-Cone Subsea flow meter has a smaller footprint on modules, manifolds and christmas trees than any other subsea flow meter technology.

### **Proven** Performance

Extensive third-party testing such as API 22.2 testing protocol proves the technology's accuracy and repeatability. Long-term field testing in subsea applications has proven reliable performance to end users.

### Designed for **Long life**

The V-Cone Subsea has no need for maintenance or re-calibration offering unattended, long-term reliable performance. This is due to the contour-shaped cone that directs flow towards the outside wall, so the beta edge is not subject to wear.



**Ask about our worldwide**





of experience

## applications

- Well Stream
- Produced Gas
- Gas Injection
- Gas Lift
- MEG
- Water Injection
- Pump Control
- WAG



## Subsea

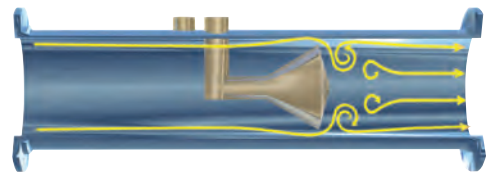
- Saves Space
- Proven Performance
- Long Life
- Experienced Manufacturing

reference list with hundreds of installations

## Principle of Operation



*As the flow approaches the cone, the flow profile "flattens" toward the shape of a well developed profile—even in extreme flow conditions.*



*The cone forms very short vortices as the flow passes the cone. These short vortices create a low amplitude, high frequency signal for excellent signal stability. The clean signal enables a wide measurement range and quick response time for control.*



V-Cone Subsea with dual transmitters

## V-CONE SUBSEA SPECIFICATIONS

**Line Size:** 2" through 16"

**Primary Device:** V-Cone Flow Element

**System Accuracy:** Up to +/-1.0%

**Beta Ratio:** 0.45 to 0.85

**Range of Operation:** Re 1,000 and higher

**Electrical Connector:** Tronic, Omnitec and ODI Standard

**Flow Turndown:** Up to 50:1

**Maximum Internal Pressure:** Up to API 6A 15000psi Class

**Operating Temperature Limits:** -20 to +80C

**Design Depth:** Down to 5000m

**Design Life:** >25 Years

**Instrument Connection:** 100% Welded to flow element

**Body Materials:** 2205 Duplex, 2507 Super Duplex, Inconel 6Mo, X65/F65 with Inconel 625 Clad, Inconel 625, Other material by request

**Process Connections:** Flanged (API 5K, 10K and 15K; ANSI up to 2500#; Norsok L-005 Compact up to 4500#), Hub, Butt-Weld

### Design and Manufacturing Standards:

API 6A

API 17D

ASME B31.3

ASME B31.8

ASME Sec. VIII

ASME Sec. IX

EN 15614

EN 15156

NORSOK M-601

### Third-Party Reports and Qualifications:

API 22.2

ISO 9001:2008

PED 97/23/EC

Represented by:

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