

Custom Made Load Cells for Mooring System

Application: Force Measurement
Industry Sector(s): Oil and Gas

The Customer

The customer is major supplier of mooring systems for the oil and gas industry, with a worldwide customer base.

Customer Inquiry

The customer uses load cells to measure the force on mooring chains. They contacted VPG Process Weighing with requirements for load cells to be used in a new mooring system. The customer's inquiry specified requirements for design, calibration, needed approvals, and expected life time.



Figure 1: Extreme harsh offshore environments require reliable and tailor made solutions

Solutions and Equipment

VPG Process Weighing delivered custom made load cells, of more than 6 MN capacity, a diameter of 180 mm and length of 780 mm, weighing 250 kg, for the mooring system, including dual bridge and a built-in amplifier with a 4 mA to 20 mA output. The load cells were delivered with ATEX approval, material certificates, and design approval.

Equipment:

- KOSD-DA1104 / 6 MN
- Fully redundant load cell—dual bridge with two built-in amplifiers

Key Features:

- Custom made
- High reliability
- High accuracy and repeatability

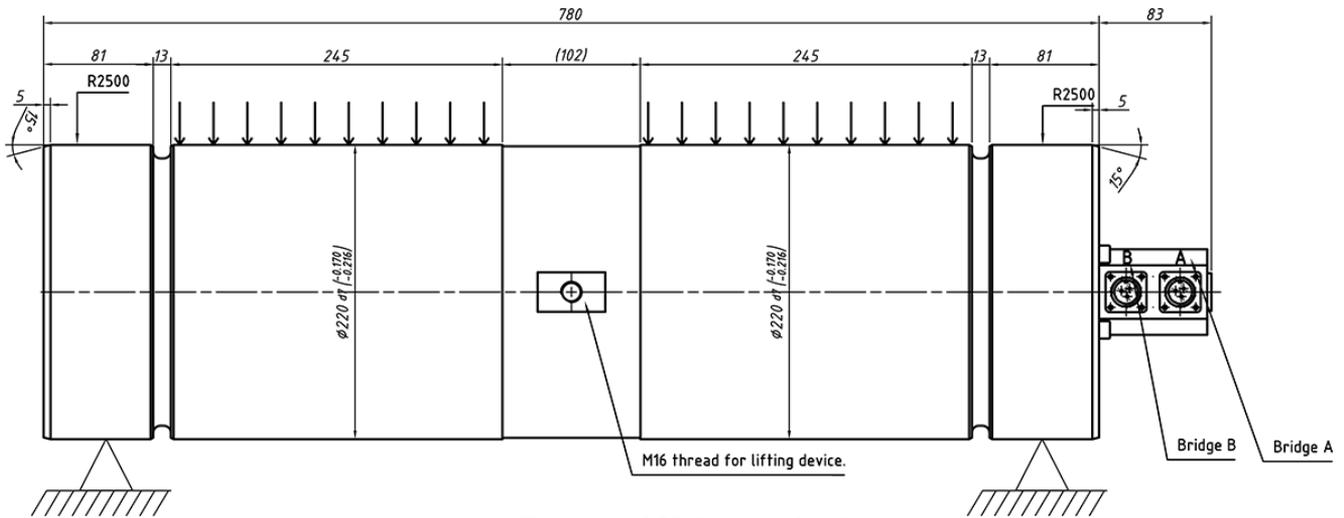


Figure 2: KOSD-DA1104 / 6 MN

Customer Comments

“The whole project involving large number of load cells was delivered on time and with the high quality we expect. Accuracy and repeatability were well within specifications.”

“A very tight delivery schedule was met as promised”

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