

SIDEM and KROHNE: A historical record

Duisburg, 25. February 2009. SIDEM, now a subsidiary of Veolia Water Solutions & Technologies, has relied on the solutions and expertise of KROHNE for over 20 years. SIDEM must be able to measure the water volumes produced with the units in their desalination plants with a high degree of accuracy. In fact, the amount of potable water provided on a daily basis is huge. For example, the 27 units in the Marafiq plant in Saudi Arabia desalinate 800,000 m³ water per day.



SIDEM desalination plant, Marafiq – Saudi Arabia

It is thus easy to understand that any error in measurement, no matter how small, inevitably leads to considerable financial losses for the plant operator, making it a top priority that the volume of water be measured with extreme accuracy. SIDEM's most recent enquiry involves measuring the flow rate of sea water into the desalination plants in Ras Laffan in Qatar: it is a formidable enquiry, involving the measurement of pipelines with a 3000 mm diameter and a measuring accuracy of less than or equal to 0.3% of the measured value.

In order to guarantee this measuring performance on a permanent basis, two flowmeters with 3000 mm diameter must be installed in series. The difference between the two measurements may never exceed 0.6%. This often requires the precise calibration of two electromagnetic flowmeters. KROHNE was the only one up to this challenge, thanks to its calibration facility, which is the world's most precise.

The KROHNE ALTOMETER production plant in the Netherlands features 12 calibration rigs for calibrating measuring devices with diameters ranging from 2.5 mm to 3000 mm and allowing for outputs of up to 30 000 m³/h. To ensure compliance with international standards, these rigs have received RvA certification (equivalent to the German DKD or French Cofrac) and guarantee a measuring accuracy of 99.987%. On 29 October 2008, SIDEM placed an extraordinary order with KROHNE, the scope of which is unprecedented in the water industry: 4 electromagnetic flowmeters with 3000 mm diameter.

This order has great symbolic significance, recognizing KROHNE for the quality of its calibrating services as well as for its more than 50 years of experience and expertise.

About KROHNE: Established in 1921, KROHNE is a family-owned business employing 2,510 people around the world with representatives on all continents. The company headquarters

are based in Duisburg, Germany. KROHNE is a market leader in the development and manufacture of innovative measurement technology and prides itself on exceeding customer expectations in terms of quality, performance capability, service and design.

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