

Flow Meters for Alcohol



H 250

Eugen Schmitt GmbH uses flow measuring technology from KROHNE in their distillation and rectification systems. Along with vortex flow meters for measuring steam, a range of variable area flowmeters are used for measuring liquids. A rectification column at the Pirmasens Technical College serves as a demonstration system for clients. As part of the chemical engineering course, which focuses on process technology, research is carried out to optimize all processes from raw materials to alcohol. The 20 m high unit at Pirmasens Technical College is equipped for an output of 12,000 liters of 96% alcohol per day. This can be used as alcohol for fuels or in the spirits industry. There is particular interest in the subject of bio-ethanol at the moment, because as of January 1st, the obligation to mix bio-ethanol into diesel fuel is due to become law.

The concentration profile of the rectification tower is constantly monitored and adjusted by extraction regulation. Eugen Schmitt GmbH uses variable area flowmeters from KROHNE to regulate extraction. One of their major advantages is that they are ideal for measuring non-conductive fluids in a wide measuring span of 10:1. They will also measure very small flows of fluids and gases without the need for any power supply. The H 250 variable area flowmeter has a metal cone made from corrosion-resistant stainless steel. The single-piece measuring tube is manufactured by KROHNE using a patented method. There are no crevices or welding beads inside the tube. The standard material used for measuring parts is stainless steel 1.4404 (316L). Other materials such as 1.4571, Hastelloy, Monel and titanium are also available. A lighter version of this flowmeter made from PTFE and ceramics is also available. With over two million devices already installed, as the only variable area flow meter certified by the EHEDG, the H 250 has become the standard for the food industry. The device has become so popular for various reasons. It has no dead space and a surface roughness of less than 0.8, it is suitable for CIP and SIP at up to 150°C and it has hygienic connections. The H 250 has flow rates of between 2.5 and 100,000L/h. Eugen Schmitt GmbH is very satisfied with the performance of their vortex and variable area flow meters. They were impressed by the reliability and long-term stability of KROHNE measuring equipment, as well as the comprehensive customer service, which is now essential for an equipment manufacturer with a worldwide presence.

"We chose measuring equipment from KROHNE Messtechnik because it is reliable and good value for money", said Reiner Schmitt M Eng, Managing Director of Eugen Schmitt GmbH.

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