Dan-iso A·S

Insulating & Saving Energy

Dan-iso A/S provides technical insulation for district heating, cooling, the wind turbine industry, and construction – as well as for the oil, offshore, and marine industries. A reliable and innovative partner since 1986.

Case study

Technical insulation ensures precision, performance, and durability

The flow meters operate with high precision – often with deviations of only a few parts per thousand – and are designed to measure liquid flow at temperatures of up to 130°C. At the same time, the unit contains very sensitive electronics that must not exceed 85°C. Here, technical insulation is crucial for maintaining a stable controlled temperature – thereby ensuring not only accuracy but also longer lifespan of the electronics in and around the unit," explains Hans Madsen, PROCES-DATA A/S.

When electronics and precision technology meet in demanding environments such as those found in the food industry, data centers, etc, thermal insulation can play a central role. This is the case at PROCES-DATA in Silkeborg, where the company develops and manufactures magnetic inductive flow meters, for the food industry and other sectors.

Customized solution through close collaboration

Dan-iso delivers the molded PUR insulation solution that protects the flow meter's electronics from overheating. The finished polyurethane shells are produced using molds developed in close collaboration with PROCES-DATA – tailored to their exact requirements and specific production methods.

"We experience a great willingness to collaborate from Dan-iso, and they listen to our specific wishes – including our request to supply the molds ourselves," says Ole Cramer, owner and founder of PROCES-DATA, and continues, "It is important for us to have a partner who both has the capability and the desire to handle a somewhat special product."

A technical partner for future needs

The molded PUR solution insulates and protects the electronic components of PROCES-DATA's flow meters. As in many other advanced applications involving sensitive electronics – such as those used in dairies, breweries, the pharmaceutical industry, data centers, and others – effective temperature control is crucial, while also enhancing the precision and lifespan of technical applications.

Continues ➔

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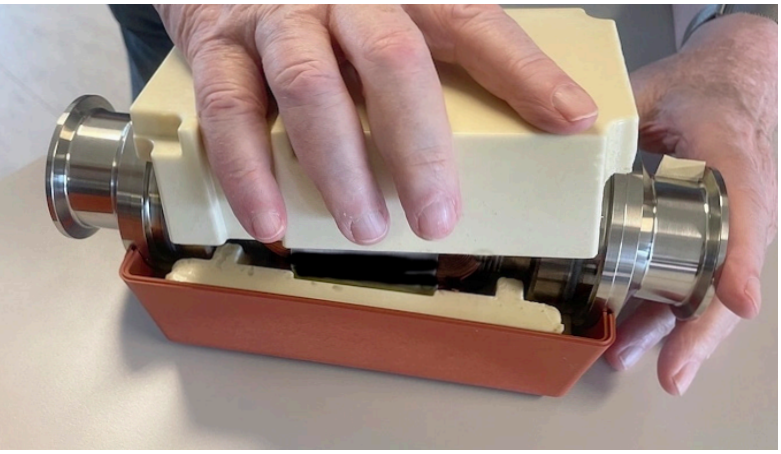

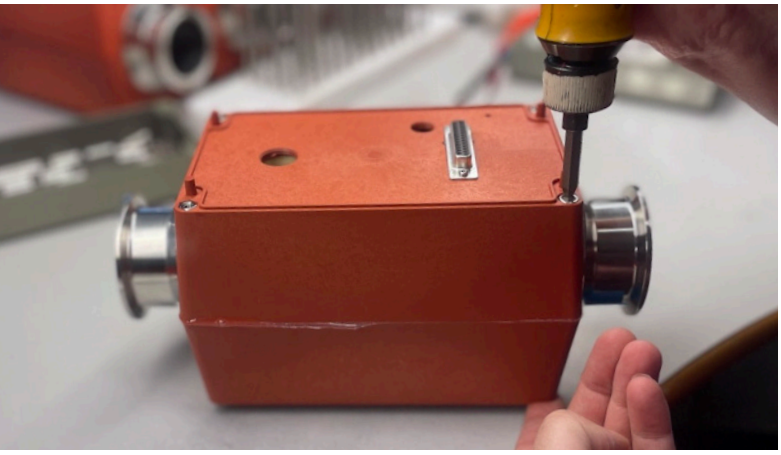

Customized solution through close collaboration

At Dan-iso A/S, we see ourselves as a technical sparring partner in insulation solutions, contributing knowledge and experience in close collaboration with our customers.

We can get involved early in development processes, solve existing challenges, and tailor specific insulation solutions to precisely match geometry and function—even where complexity and precision are key.

– this applies to both small, compact units such as those from PROCES-DATA and large geometries like centrifugal pumps.

Insulation for electronic in demanding environments

In many industrial and technical applications, electronics operate in close contact with liquids under extreme conditions – both high and low temperatures.

Beyond flow meters, this includes precision pumps, dosing systems, valve controls, and analytical equipment, where electronics are integrated into or positioned near fluid-handling components.

In such environments, insulation can be crucial for protecting against condensation, and chemical exposure.

Insulation: A simple solution with a big impact

By insulating technical applications, heat loss can be significantly reduced while enhancing durability, operational efficiency, and overall system stability. Industry analyses show that proper insulation can reduce energy consumption by up to 20–30%, depending on the type and size of the application.

These savings are directly reflected on the bottom line—especially in energy-intensive industries, where even small improvements in efficiency can have a substantial financial impact.

Learn more at www.dan-iso.dk

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