

Customised flange seals to the highest hygiene standards

To suit every individual application, Freudenberg Sealing Technologies can offer bespoke flange seals that meet the highest standards in hygiene. Developed for customer-specific sealing grooves in the food, beverage, pharmaceutical and chemical industries, the customised flange seals are available via authorised distributor Dichtomatik Ltd, the exclusive provider for Freudenberg's food and beverage related products in the UK.

For each customer requirement, Freudenberg experts can set about developing a completely new design of flange seal. Factors such as prevailing pressures and temperatures, the product and cleaning media, as well as the dimensions and process-related variance of the sealing groove, have a role to play. Importantly, the company's tailor-made solutions enable hygienic sealing, flush with the product – the flange seal neither protrudes into the product area, nor does it rebound.

Of particular note, Freudenberg Sealing Technologies can offer a proven design for special housings in the process industry. Thanks to unique FEM analyses, the company's design provides optimised hygienic sealing that surpasses conventional flange seals. This high-performance seal also provides an easily cleanable solution in non-rotationally symmetric systems and standard housings. The material variants deployed, such as EPDM or HNBR, show high resistance to CIP/SIP (cleaning-in-place/sterilisation-in-place) media and meet the requirements of the American FDA (Food and Drug Administration). As a result, the solution is ideal for use in the demanding operating conditions typical of food, beverage, pharmaceutical and chemical applications.

Experts at Freudenberg Sealing Technologies can also offer advice on the design of the seal groove. After all, with the proper seal groove, the seal can be installed in a way that prevents leakage. Here, it is important to pay attention to factors such as metallic compression limitation and centring.

Thanks to the wide range of research and development capabilities at Freudenberg, as well as the company's extensive product and materials expertise, the respective sealing solution can be tailored to meet the exact application, including where hygienic flange seals are required.

Further information is available at: foodandbeverage.fst.com/products-en/static-seals

About Freudenberg Sealing Technologies and Dichtomatik

Freudenberg Sealing Technologies is a longstanding technology expert and market leader in sealing technology and electric mobility solutions worldwide. With its unique materials and technology expertise, the company is a proven supplier for demanding products and applications, as well as a development and service partner to customers in the automotive industries and in general industries. In 2017, Freudenberg Sealing Technologies generated sales of about €2.3 billion and employed approximately 15,000 people. More information at www.fst.com.

Dichtomatik is Freudenberg Sealing Technologies' sales organisation for technical seals. There are currently 8 locations in Europe: in England, Sweden, the Netherlands, France, Austria, Hungary, Italy and the headquarters in Germany as well as locations in the USA, Canada, Middle and South America as well as Asia. More information at www.dichtomatik.com.

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