

Safe braking – a plus for everyone

(Aadorf) The Swiss firm SERTO Ltd has increased its capacity for manufacturing flexible PTFE hoses and now ships worldwide. The high resistance to aggressive media, pressure, temperature and environmental effects, for which these hose assemblies are well-known, has led to a rising demand for jacoflon. SERTO now manufactures these products in Switzerland, as well as in Germany. Not just racing drivers will breathe easier.

"Safety requirements are higher in all branches," says SERTO product manager Alexandra Kuhn. "We have noticed this in the increased demand for our flexible jacoflon PTFE hoses, which offer a maximum of safety." The established Swiss firm supplies the PTFE hoses with stainless steel jackets made to customer specifications in five different qualities, including gas and automobile quality, in addition to a variety of stainless steel fittings. The PTFE core is made of high-quality Teflon® and features a nearly universal chemical resistance. Acids, solvents, steam or pharmaceuticals can't harm them.

Safe – according to food regulations as well
Safety is particularly important when transporting high purity liquids through flexible lines. The media conveyed may not be adulterated in any way by the carrier medium. The resistance of the hose against aggressive media, pressure, temperature, environmental effects, etc. must be warranted. PTFE has proven over many years to be an ideal material for such applications. jacoflon hoses from SERTO satisfy all these criteria and also comply with food regulations. The thermal range of application is from -60°C to +250°C. The smooth walls of the extruded PTFE core and the anti-adhesive behaviour of PTFE mean that media with poor flow can be easily conveyed. The effects of ozone and UV rays also cause no damage. Moisture absorption is less than 0.01% according to ASTM testing.

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17 million bend sequences

The protective jacket made of stainless steel wire provides additional safety for these jacoflon products. It increases the flexibility and the pressure resistance. Depending on the nominal diameter or temperature, they withstand bursting pressures up to 1000 bar. Testing at SERTO is considered to be among the most rigorous. For example, a test specimen measuring 150 mm in length was exposed to a 24-hour salt spray test and then tempered for 70 hours. Subsequently it was bent 100 times a minute in a 46-mm radius and then stretched again. After 17 million cycles, the test was ended. No damages were detected on the test specimen. This fact is highly appreciated by plant and machine builders in all industry sectors, as well as racing drivers, who know they can rely on the PTFE brake lines in their racing cars. "By expanding our production capacity at our headquarters in Aadorf, we are able to supply the custom-made PTFE products just-in-time throughout the world," Kuhn points out.

Products in all high-tech areas

The SERTO Group with nearly 220 employees world-wide realises sales in the order of 70 million Swiss francs (approx. 42 mill euros). Their customers include renowned firms in the chemical and pharmaceuticals industries, as well as manufacturers of coffee machines, ozone generators, medical equipment, vehicles or wafer steppers. The stainless steel tube unions and hoses are particularly valued in new technologies and applications, such as hydrogen technology, natural gas vehicles or in fuel cell technology.

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to SERTO Ltd.**

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