

World's smallest 3-way proportional valve with integrated sensor

Staiger integrates micro sensor in a 3-way micro proportional solenoid valve.

Staiger is known in the fluidics world for small, precise and fast solenoid valves with a very long service lifes.

Having already introduced the smallest switching valve (a 7mm valve) with an integrated pressure and temperature sensor, Staiger has now developed the world's smallest proportional solenoid valve with an integrated sensor for measuring pressure and temperature. This valve is a 3-way spider valve with a size of 8mm.

The directly integrated sensor makes it possible for the first time to monitor the status of a pneumatic or fluidic system without additional interfaces, without additional installation effort and without additional installation space, and also allows to actively control the system with the valve - and all that with just one component!

This proportional SensorValve is particularly useful for controlling PEEP-ventilation of patients or in general for precise control of pressure, or also for blending gases.

More complex fluidic systems in particular, in which numerous components are installed, are susceptible to leaks due to the many interfaces, which are typically difficult to localize. This valve with integrated sensor effectively reduces the number of such interfaces and therefore potential sources of error. In addition, such a valve with integrated sensor also reduces the installation effort.



*Image 1: Staiger 8 mm 3-way proportional valve with integrated sensor
(source: Staiger GmbH & Co. KG)*

About STAIGER GmbH & Co. KG

STAIGER has stood for first-class solutions in the field of fluid technology for more than 50 years. As an owner-managed family business with around 200 employees, we develop high-precision solenoid valves and customized fluidic systems that set standards worldwide. Our focus is on uncompromising quality, maximum flexibility and a strong customer orientation - always with the aim of delivering tailor-made solutions for a wide range of applications.

At our plant in Erligheim, 30 kilometers north of Stuttgart, we accompany every product from the initial idea through to mass production. All production and testing equipment is developed in-house to ensure the highest standards. Every valve is 100% tested and documented before delivery - for maximum reliability and customer satisfaction.

We work closely with our customers to develop components that do more than just provide technology: They save lives, promote health, support a sustainable reduction in CO₂ emissions and contribute to the communication infrastructure of the future. We see ourselves as a partner on an equal footing, using our innovative strength and expertise to jointly realize the best solutions.

STAIGER – Fluid Control Excellence auf höchstem Niveau!

More Informationen under www.staiger.de

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