



- Space-saving due to compact design
- Low wear, extremely long service life
- Measuring range beginning at 1 l/min

Turbine flow sensor VTY

The flow sensor for potable water applications



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SIKA turbine flow sensors are the **first choice for potable water applications**, for example, in heat interface, fresh water, softening and filling stations, as well as for hygiene flushing and in potable water treatment.

The SIKA turbine flow sensors are available in the sizes **DN10, DN15, DN20 and DN25**. For all nominal diameters, reliable measurement begins at a flow rate of just **1 l/min (60 l/h)**. This is achieved by the geometry of the rotor in combination with the integrated flow straightener. The flow straightener bundles the medium and directs it onto the rotor at an ideal angle. The latter begins to rotate at approx. 0.8 l/min and emits a signal. **A stable measurement signal is reached at 1 l/min (60 l/h)**.

The flow sensor's use in potable water applications is backed by numerous certifications, including: **suitability for potable water applications according to System 1+, WRAS, ACS and KIWA approval**.

Made in Germany: Our turbine flow sensors are **developed and produced** as OEM products at our site in Germany.

The experience gathered over the course of **25 years** and from **more than 3.5 million VTY turbines in the field** attest to the outstanding quality of our turbine flow sensors.

Product features

- Increased efficiency in potable water applications through control even at low flow rates.
- Reliable measurement thanks to the high measuring accuracy and the clever bearing system.
- Thanks to the optimised pressure drop, fewer pressure boosting systems may be required in higher buildings.
- The highly compact design enables use even when only limited space is available. With integration of the turbine push-in module, virtually no additional space is required.
- A particularly long service life is achieved by the patented construction of the rotor.



100% tested

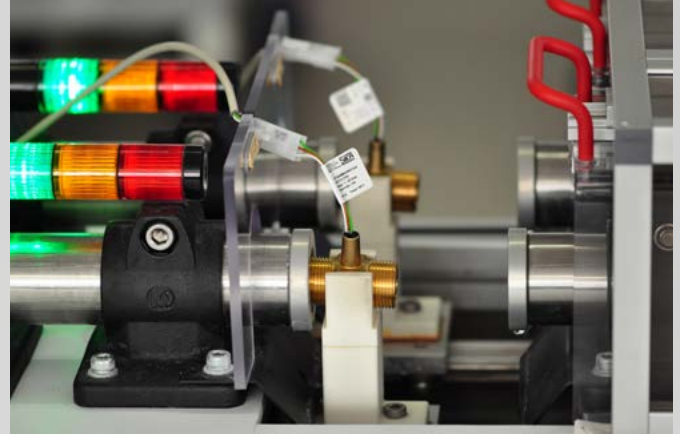
Before delivery, each flow sensor is subjected to a **100% water flow final test**. In this way, we ensure that every flow sensor fully satisfies its requirements.

Highly optimised

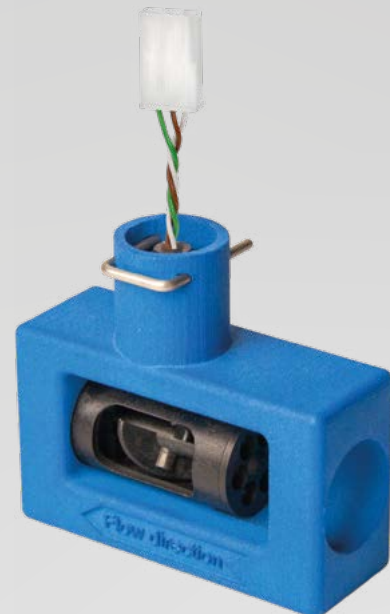
Co-engineering: As an additional service, we can test the SIKA turbine flow sensor in **your hydraulic system**. This allows us to optimise the measuring performance in **your actual installation situation** and thus determine the measurement properties for the specific application. You will then receive our detailed test report.

Simple integration

The SIKA turbine flow meters are **extremely compact**. They therefore find frequent use in applications in which space is limited. And if no space is available, the push-in turbine flow sensor can be **integrated directly into the existing fittings**.



100% water flow final test



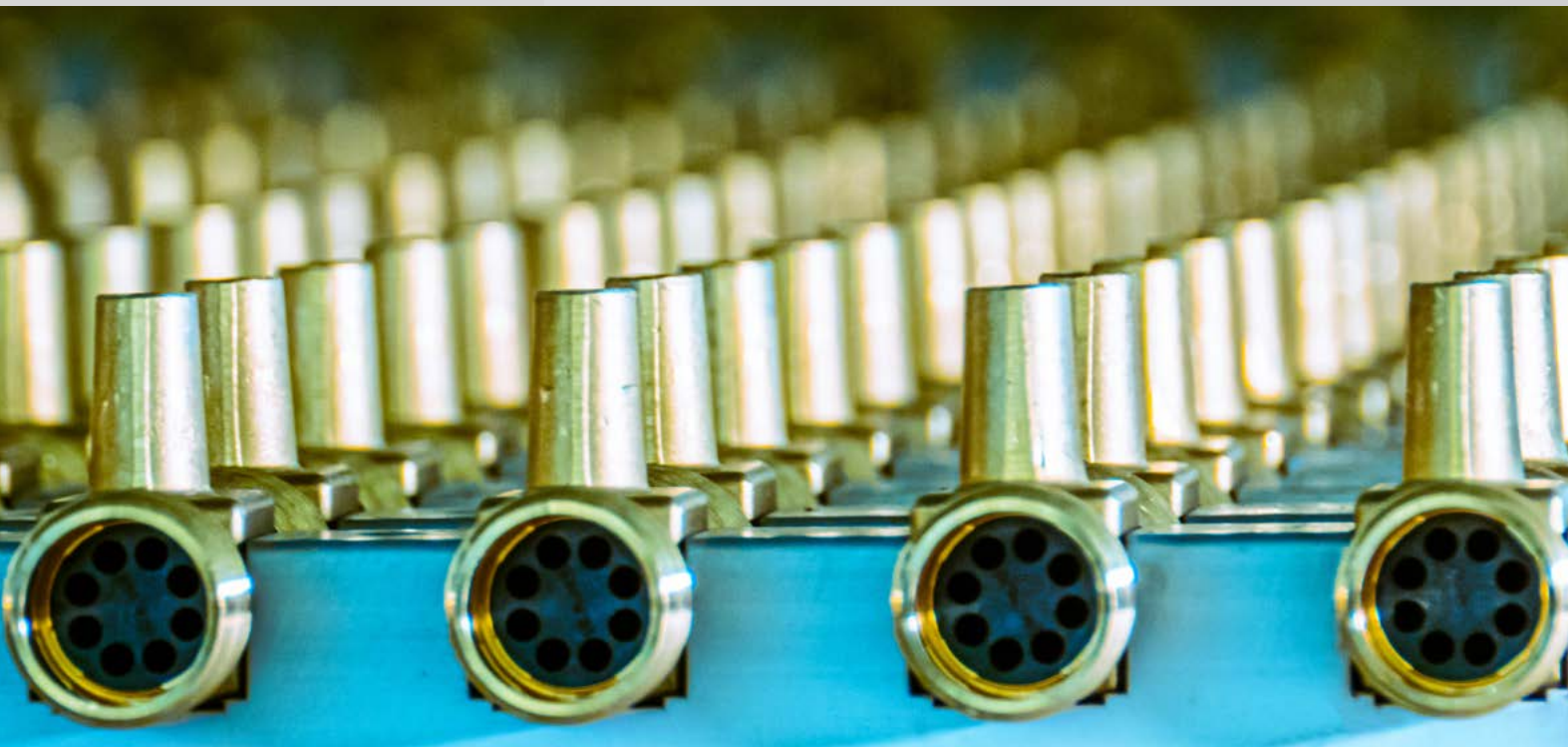
Highly durable

SIKA turbine flow sensors are **extremely durable**. The exceptionally robust and high-quality **bearing, which is made from glass fibre reinforced plastic, sapphire and hard metal**, provides the basis for a long service life. The bearing is also flushed by the medium, so that the **forces that occur are reduced** and the turbine system lasts for even longer.

We determine the service life for each nominal diameter by means of an overload test. In this test, several turbine systems

with an identical configuration are operated with up to 2.5 times the volumetric flow (relative to the final measurement range), at a high temperature and **in 24/7 continuous operation**. The test usually lasts for approximately half a year.

On this basis, the product lifetime can then be calculated in terms of the actual flow rate. For instance, the typical service life of the VTY turbine with a nominal diameter of DN15 in **continuous operation at 20 l/min is approximately 10 years**.



SIKA – your reliable partner

With SIKA, you have a **reliable partner at your side**. With **over 45 years of application experience**, we offer you the right flow measurement principle for your products.

We have **extensive production capacities in Germany** and an international sales network with local contact partners. This way we guarantee a high availability of spare parts and a level of customer service that impresses in **large and small series** worldwide.

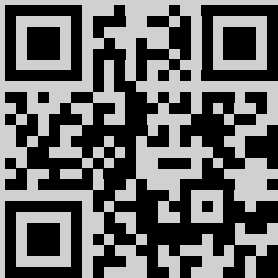
Our sensors **prove themselves millions of times a day** and, in many cases, have been adapted to customer-specific requirements **far beyond the industry standard**.

And just as our products **are 100% tested**, we always give **100%** in everything we do. That is why leading manufacturers in the field of potable water applications place their trust in SIKA and SIKA turbine flow sensors.

Get in touch!

Do you have a question about the SIKA turbine flow sensors? Or do you need a reliable partner for your measurement task? Our website **www.sika.net** offers you more information about our products.

Or **contact us directly**: Send us an email at info@sika.net or call us at +49 5605 803-0. **We look forward to your inquiry!**





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