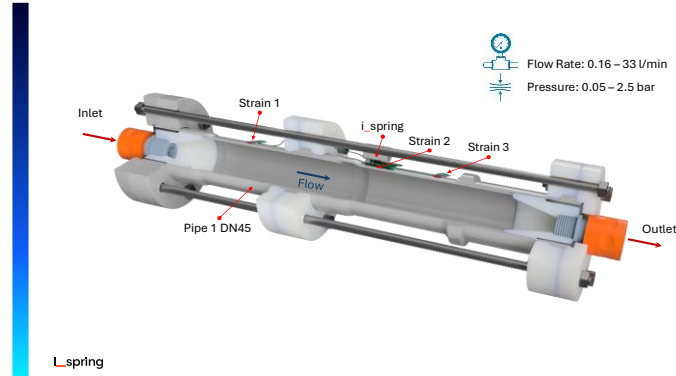


From springs to flows –

Discover how i-spring is setting a new standard in flow analysis

The story of i-spring Systems AG began at Federnfabrik Schmid AG, where the technology was originally developed to measure the tiniest deformations in spring assemblies – a high-precision system for real-time condition monitoring.

During the development phase, however, a key insight emerged: the same measurement principle could also be applied to pipelines. Instead of a spring, the pipe wall itself becomes the sensor – and instead of force, the system now measures internal pressure.



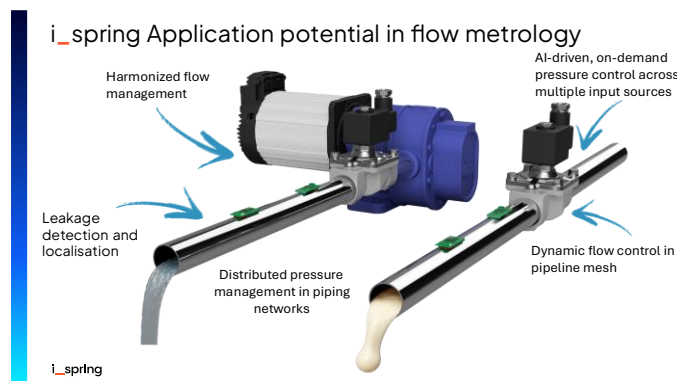
Everything happening inside the pipe becomes visible because every pressure change produces minute deformations, which i-spring precisely detects and analyses.

The principle is similar to our own bodies: blood vessels respond to pressure fluctuations, and sensors in the vessel walls send feedback to the brain, which adjusts the heartbeat accordingly.

In the same way, i-spring feels what is happening inside the pipeline – delivering real-time data on flow velocity, direction, behaviour, and anomalies.

Key Advantages:

- non-intrusive, media-free measurement – hygienic, safe, and easy to retrofit
- reliable with challenging media – works with foams, emulsions, highly viscous or non-Newtonian fluids
- beyond measurement – early detection of leaks, deposits, and flow disturbances
- smart connectivity – wireless communication and IoT integration for Industry 4.0



With i-spring, what was once considered a “disturbance signal” – pressure pulsation – becomes a valuable source of information, enabling greater efficiency, process quality, and operational safety.

Experience the new i-spring live at PUMPS&VALVES 2025 – Stand 7625

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