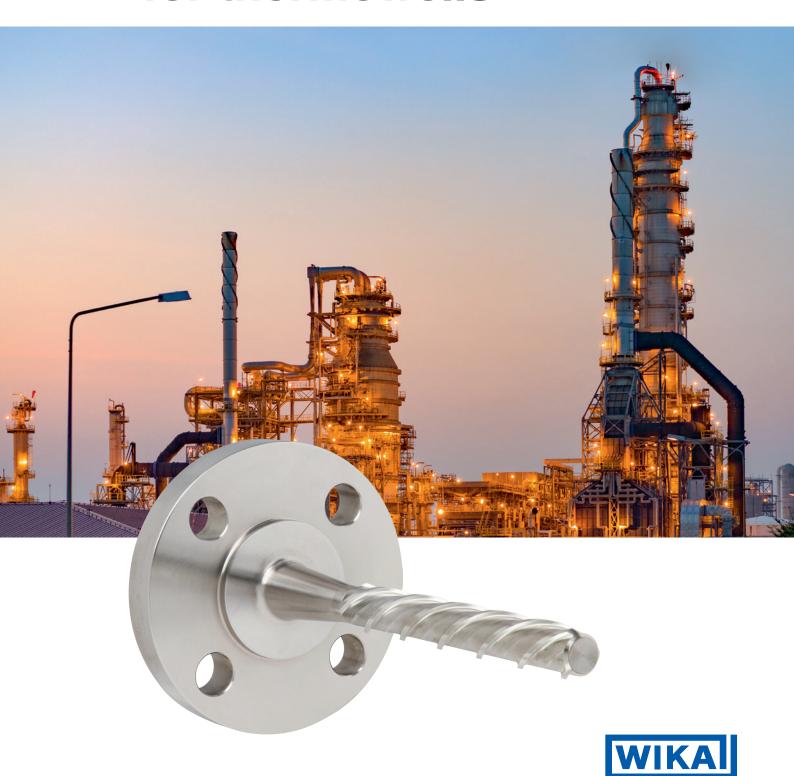
Part of your business

ScrutonWell® design for thermowells



The ScrutonWell® offers you a great solution

Standard thermowell stem designs in approximately 30 % of applications will not pass calculations according to ASME PTC 19.3 TW-2016.

Standard thermowell



In certain flow conditions, a Kármán vortex street can form behind the thermowell stem when it is subjected to a flow within a pipeline. This vortex street consists of two rows of vortices with opposite directions of rotation, which detach themselves to the left and the right of the thermowell out of phase, and this can instigate the thermowell to vibrate.

Thermowell in ScrutonWell® design



The helical strakes arranged around the thermowell stem of the ScrutonWell® design, break up the flow and thus impede the formation of a clearly defined Kármán vortex street. Through the reduced amplitudes of the diffused vortices, vibrational excitation of the thermowell is avoided.



Fatique failure by dynamic stress



Advantages of the ScrutonWell®

High security
for your application

Increased profitability by higher flow rates

Cost saving aspects by standard installation

Easy maintenance comparable to a standard thermowell

Verified designby flow testing at several institutes

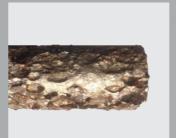
Special design solutions for critical process media

For abrasive process loads in critical medium velocities





For high corrosive process loads in critical flow conditions





ScrutonWell® Flow test

The effectiveness of the ScrutonWell® design was verified by flow testing at NEL (Glasgow, UK) and the Institute for Mechanics and Fluiddynamics at Technical University of Freiberg (Germany).

These tests demonstrated the superior performance of the ScrutonWell® in comparison to a standard thermowell in critical flow conditions.

The damping ratio of the ScrutonWell® by more than 90 % was verified in various test conditions.



