

ScrutonWell® design for thermowells



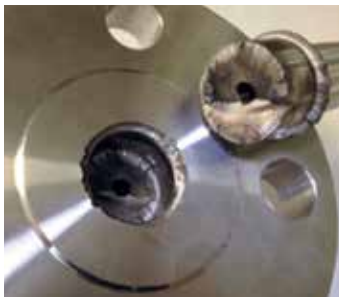
The ScrutonWell[®] design - second to none

In approximately 30% of applications, standard thermowell stem designs will not pass ASME PTC 19.3 TW-2016 calculations.

Standard thermowell



In certain flow conditions, a Karman vortex street can form behind the thermowell stem when it is installed in a pipeline. This vortex street consists of two rows of vortices with opposite directions of rotation. These vortices detach themselves to the left and right of the thermowell, causing the thermowell to vibrate.



Fatigue failure from dynamic stress

ScrutonWell[®] design



The ScrutonWell[®] design's helical stakes break up flow, impeding the formation of a clearly defined Karman vortex street. Reducing the amplitude of the vortices helps to avoid thermowell vibration.



Radiography of a WIKA ScrutonWell[®] to assure 100% quality

ScrutonWell® advantages

High security
for your application

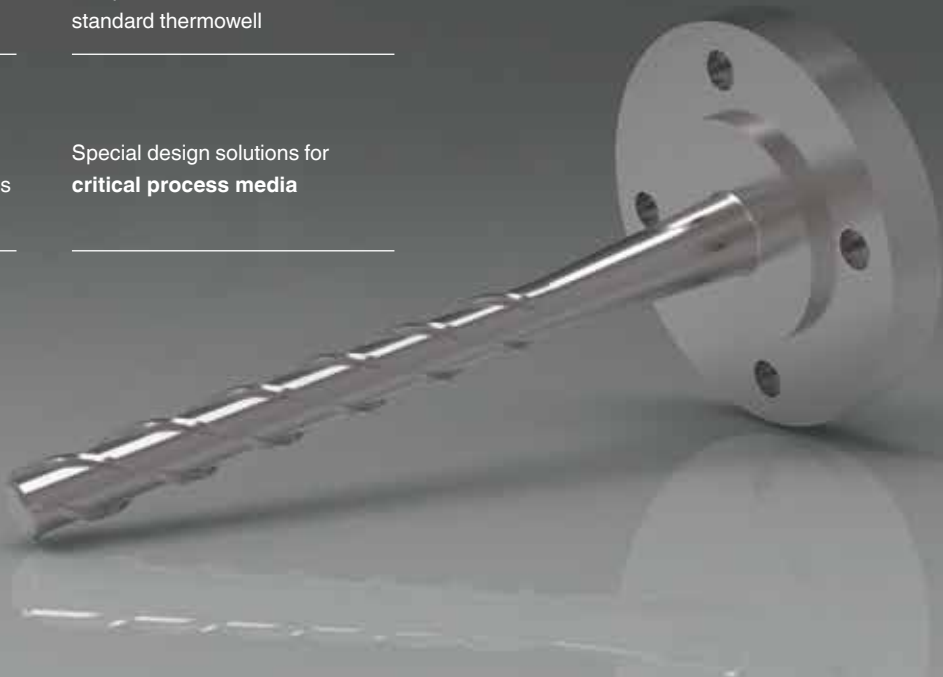
Higher flow rates
increase profitability

Cost saving aspects
by standard installation

Easy maintenance
comparable to a
standard thermowell

Verified design
by 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

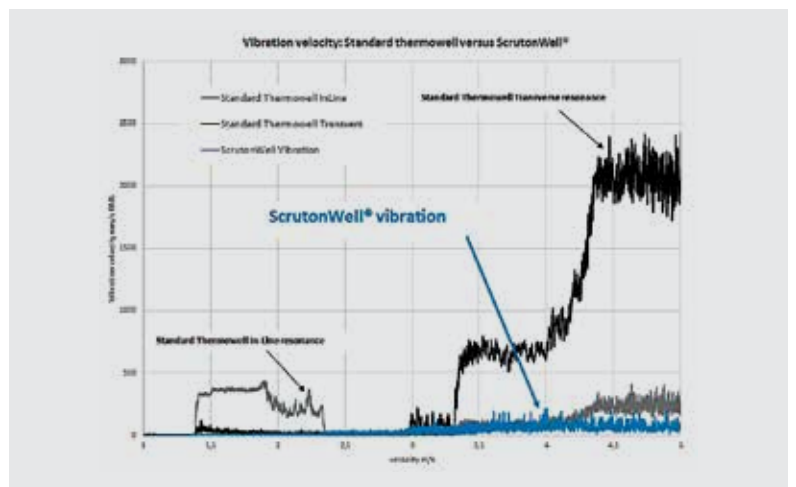
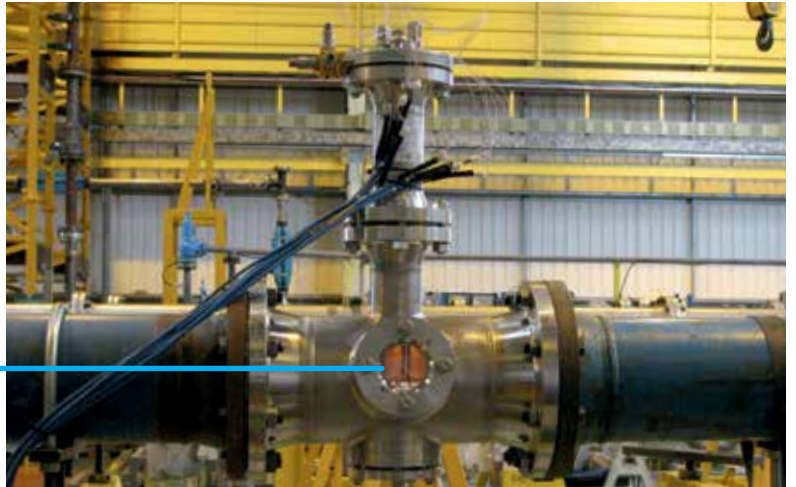


ScrutonWell® flow test

The effectiveness of the ScrutonWell® design was verified by flow testing at NEL (Glasgow, UK) and the Institute for Mechanics and Fluid Dynamics 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.



WIKA USA
1000 Wiegand Boulevard
Lawrenceville, GA 30043
Toll Free 1-888-WIKA-USA (945-2872)
Tel (770) 513-8200 Fax (770) 338-5118
info@wika.com • www.wika.com

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