

# TEMPERATURE

## Helical forged thermowell - VORTICRACK®

**DESCRIPTION:** Due to the increase in process conditions, this execution has become necessary in the industry, which produces a decrease in certain frequencies of detachment of the vortices, as well as in the energy of the same.

They are the mechanical barrier that protects the sensor, to maintain the transmission / indication of the generated signal, at all times, and must withstand the same operating conditions including the conditions that it generates and the useful life of the element to which it is associated.



### DENOMINATION

Forged thermowell with Helical finish.

### CHARACTERISTICS

- Rules of design:	ASME PTC 19.3, API RP 551, ATEX, IECEx. Stress calculations are based on the ASME PTC 19.3 standard as well as the simulation of finite models for both the frequency and structural models.
- Materials:	On request.
- Sizes of manufacturing:	1/2" – 3" Maximum length 1500 mm.

### APPLICATIONS

- Nuclear industry.
- Chemical and petrochemical industry.
- Aeronautical and aerospace industry.
- Corrosive environments.
- Renewable energy industry.
- Areas classified ATEX 2014/34/EU and IECEx with explosion protection mode and intrinsic safety.

### NOTES

- **Maximum operating temperature:** According to the flanges rating, tube thickness and materials.
- ATEX 2014/34/EU and IECEx certification for the complete set consisting of connection heads with ceramic terminal block or temperature transmitter sensor element (Thermocouple/RTD), joint accessories and thermowell for process connection (with or without flange).
- **Maximum operating pressure:** According to the flanges rating, tube thickness and materials.



## TEMPERATURE

## Helical forged thermowell - VORTICRACK®

### Usual types:

#### Connection Type

Flanged

Van Stone

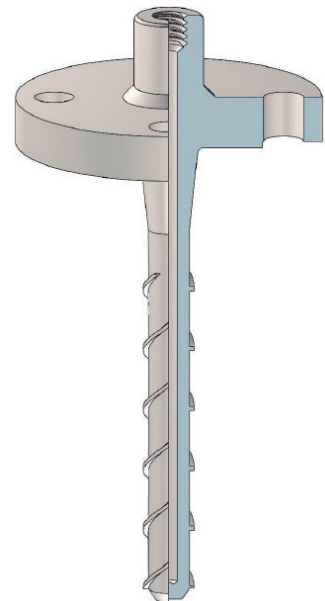
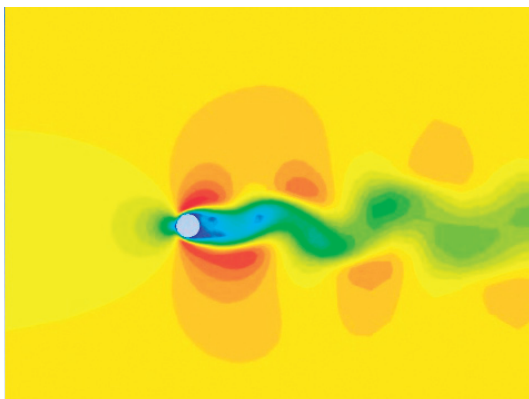
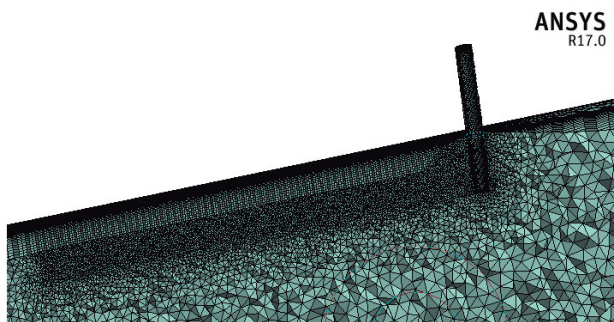
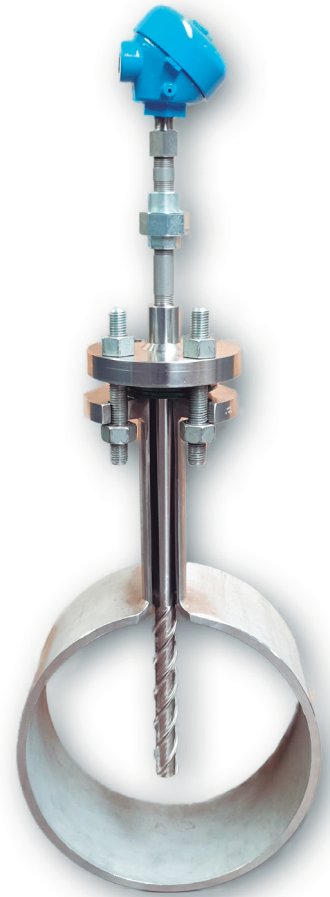
Threaded

Welded

In the flanged version the execution is forged, eliminating the residual stresses due to welding.

Non-destructive testing carried out both by external laboratories and internally in our test laboratory.

ATEX 2014/34/EU and IECEx certification for the complete set consisting of connection head with ceramic terminal block or temperature transmitter, sensor element (Thermocouple/RTD), joint accessories and thermowell for process connection (with or without flange).



[www.eipsa.es](http://www.eipsa.es)



Nº: ISO 9001 - 0037273

