Helical Strake Thermowell are specially constructed thermowells which have special design features that allows the thermowell to be sustained well inside a fluid flow. Special feature of this thermowell is the helical ridges which are constructed using standard calculations, these helical ridges reduces the vortex formation inside the fluid flow due to the thermowell which reduces the vibrations upto 90% compared to a normal thermowell. The construction of this thermowell is based on the parameters provided in the standard ASME STS-1.

Advantages

- Reduces effects caused due to vortex shedding
- Longer life compared to normal construction
- Longer insertion lengths possible with same Diameter
- No need for support collars.
- Reduces 90% amplitude of the oscillations
- Easy and Fast installation
- Suitable for high flow rates and small nozzle sizes
- Better response time than conventional methods
- Eliminates use of support collars

Specifications

- Thermowell material: SS 304/310/316, Inconel 600, Monel 400 etc.
- Thermowell OD: min 9.2mm
- Thermowell ID: min 3.2mm
- Process Connection: As per Requirement (Flanged/Threaded/Welded)
- Wall Thickness: min 3mm
- Tip Thickness: min 3mm
- Unsupported Length: 63.5mm - 600mm
- Helical Length: As per Requirement
- Helical Strake height: 10% OD (Acc. to ASME standard)
- Helical Pitch: 5xOD (Acc. to ASME standard)
- No. of Strakes: 3 Nos. at 120° from each other
- Strake Angle: 58° (Acc. to ASME standard)
- Strake Construction: Machined/Wire Welded

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