iTHERM ModuLine TT151

Barstock thermowell for safe and reliable temperature measurements in heavy duty industrial applications

Benefits:
- TT151 is an industry standard thermowell manufactured from round barstock
- Modular configuration according to DIN 43772, ASME B40.9, NAMUR NE 170 or more flexible as universal version
- Extension, immersion length and total length can be chosen according to process requirements
- Wide range of dimensions, materials and process connections available
- iTHERM TwistWell in helical design – reducing vortex induced vibrations in high-velocity applications

Specs at a glance
- Max. process pressure (static) 500 bar (7252 psi) Depending on Configuration
- Maximum standard immersion length 1500 mm

Field of application: The TT151 thermowell is designed as per DIN 43772, ASME B40.9, NAMUR NE 170 norms or as individual configuration. The robust protection tube ensures safe and accurate measurements in process lines or vessels, shielding temperature sensors from harsh environments. It is drilled and machined from solid bar stock with root diameters from 9 to 50 mm. Tips are available in straight, tapered or stepped form. Process connections include a selection of standard flanges, threads or weld-in versions.

Features and specifications

More information and current pricing: www.us.endress.com/TT151
# Thermowell

**Measuring principle**
Bar stock Thermowell

**Characteristic / Application**
metric style
compliant according to ASME, DIN or NAMUR standard
universal use

**Head connection**
internal thread:
- M14x1,5
- M18x1,5
- M20x1,5
- M27x2
- 1/2" NPT
- 1/2" NPSM
- 1/2"NPSC
- G1/2"
- G3/4"
- M24x1,5 sliding

**Maximum standard immersion length**
1500 mm

**Process connection**
To be threaded
weld in
with flange according to ASME, EN or ISO

**Thermowell root diameter**
9...50 mm
**Thermowell**

*Medium contact material*
Wide selection of materials including:
- 316
- 316L
- 316Ti
- 347
- 310
- Alloy600
- AlloyC276
- 10CrMo9-10
- 13CrMo4-5
- 16Mo3
- A105
- C22.8
- Duplex
- Titan Gr.2
- 316+316L dual rated
- P355NH

*Wetted part finishing (Ra)*
- < 0.8 μm (31.50 μin)
- < 1.6 μm (63.00 μin)

DIN Standard

*Tip shape*
- Straight
- Tappered
- Stepped
- partly tappered

*Temperature range*
- -200...1100 °C (-328...2012 °F)
Depending on Configuration

*Max. process pressure (static)*
- 500 bar (7252 psi)
Depending on Configuration
Thermowell

Max. process pressure at 400 °C
depends on process connection and material

More information www.us.endress.com/TT151