

iTHERM ModuLine TT151

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



More information and current pricing:

www.us.endress.com/TT151

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

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

Thermowell

Measuring principle

Bar stock Thermowell

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

Wetted part finishing (Ra)

< 0.8 μm (31.50 μin)

< 1.6 μm (63.00 μin)

DIN Standard

Tip shape

Straight

Tapered

Stepped

partly tapered

Temperature range

-200...1100 $^{\circ}\text{C}$ (-328...2.012 $^{\circ}\text{F}$)

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