

iTHERM ModuLine TT151

Barstock thermowell

Metric thermowell for a wide range of heavy duty industrial applications



More information and current pricing:

www.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
- 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

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
Tapered
Stepped
partly tapered

Temperature range

-200...1100 °C (-328...2.012 °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.endress.com/TT151