iTHERM ModuLine TT131

Welded thermowell for a variety of industrial applications

More information and current pricing:
www.be.endress.com/TT131

Benefits:

- Modular configuration according to DIN 43772
- iTHERM QuickNeck: cost and time savings thanks to simple, tool-free recalibration of the insert
- Extension, immersion length and total length can be chosen according to process requirements
- Wide choice of dimensions, materials and process connections available
- Specially designed tip for fast response times

Specs at a glance

- **Max. process pressure (static)** Depending on configuration up to 100 bar
- **Maximum standard immersion length** 4.500 mm (177")
- **Max. immersion length on request** 4.500 mm (177")

Field of application: This thermowell designed according to DIN 43772 guarantees a high resistance to most industrial process environments. It is made from pipe or tube and is available in a wide range of diameters and materials. A specially designed thermowell tip ensures fast response times for a more efficient process control. Oversheaths in PTFE or tantalum can withstand extremely corrosive process conditions. It is offered with a variety of process connections: flanges, threads, weld-in or compression fittings.

Features and specifications

Thermowell

Measuring principle
Fabricated Thermowell

Thermowell

Characteristic / Application

metric style
according to DIN 43772
process connection threaded, flanged, compression fitting
with neck

Head connection

external thread:
M24 x 1.5, 1/2" NPT, G1/2
Female thread:
M20 x 1.5, 1/2" NPT, G1/2
QuickNeck

Maximum standard immersion length

4.500 mm (177")

Max. immersion length on request

4.500 mm (177")

Thermowell

Process connection

Thread:
G3/8", G1/2", G3/4", G1"
NPT1/2", NPT3/4", NPT 1"
M18x1.5, M20x1.5, M27x2, M33x2
R1/2", R3/4"
Cap-nut:
M20x1.5, G1/2", G3/4"
Compression fitting:
NPT1/2", G1/2", G1"
Flansche:
DN15 PN40 B1, C
DN25 PN20, PN40, PN100 B1, B2, C
DN40 PN40 B1
DN50 PN40 B1
ASME 1" 150 RF
ASME 1" 300 RF
ASME 1 1/2" 150 RF
ASME 2" 150 RF
ASME 2" 300 RF

Thermowell root diameter

9x1,25 mm
11x2 mm
12x2,5 mm
14x2 mm
16x3,5 mm
1/4" SCH80
1/2" SCH80
1/2" SCH40

Thermowell

Medium contact material

316 (1.4401)
316L (1.4404)
316Ti (1.4571)
Alloy 600 (2.4816)
Alloy C276 (2.4819)
Alloy 446 (1.4749)
Alloy 321 (1.4541)
Sheath PTFE
Sheath Tantal

Wetted part finishing (Ra)

< 1.6 µm (63.00 µin)

Tip shape

straight
reduced
tapered
optimized for quick response times

Temperature range

-200...1.100 °C (-328...2.012 °F)

Max. process pressure (static)

Depending on configuration up to 100 bar

Max. process pressure at 400 °C

Depending on configuration

More information **www.be.endress.com/TT131**