

iTHERM ModuLine TT412

Welded thermowell

Imperial thermowell for hygienic and aseptic applications in the food & beverages and pharmaceutical industries



More information and current pricing:

www.endress.com/TT412

Benefits:

- iTHERM QuickNeck – cost and time savings thanks to simple, tool-free recalibration of the insert used
- All common hygienic process connections
- International certification: hygiene standards as per 3-A, EHEDG, ASME BPE, FDA, TSE Certificate of Suitability
- Fast response time owing to reduced tips with thin walls
- State of the art Tee and Elbow thermowells, without welds and dead legs and with best in class hygienic design

Specs at a glance

- **Max. process pressure (static)** 40 bar (580 psi)
- **Maximum standard immersion length** 48" (1.219 mm)

Field of application: Best applicable for use in hygienic or aseptic pipes and containers or tanks even with very small immersion lengths. It meets increased protection requirements of the temperature sensor regarding physical and chemical effects. Ideally suited to all measuring points that require regular re-calibration by simply replacing the insert in closed processes.

Features and specifications

Thermowell

Measuring principle

Fabricated Thermowell

Thermowell

Characteristic / Application

imperial style
hygienic/aseptic design (3-A®, EHEDG, ASME BPE, FDA)
hygienic process connections
iTHERM QuickNeck for easy and cost saving
recalibration

Head connection

iTHERM QuickNeck
NPT1/2

Maximum standard immersion length

48" (1.219 mm)

Process connection

weld in adaptor
clamp connections acc. to ISO2852
thread acc. to ISO 228 for liquiphant adaptor APV Inline
Varivent
Tee and elbow thermowells DIN11865

Thermowell root diameter

1/4" (6,35 mm)
3/8" (9,525 mm)
1/2" (12,7mm)

Medium contact material

316L

Wetted part finishing (Ra)

< 30 µinch (0,76 µm)
< 15 µinch(0,38 µm)
< 15 µinch (0,38 µm) electropolished

Tip shape

straight
reduced

Thermowell

Temperature range

-200...650 °C (-328...1.202 °F)

Max. process pressure (static)

40 bar (580 psi)

Max. process pressure at 400 °C

depends on process connection

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