

TA541

Protection tube for temperature sensors

For use with resistance or thermocouple thermometers principally in heavy duty applications



More information and current pricing:

www.endress.com/TA541

Benefits:

- The stem shape can be straight or stepped for fast response time
- A wide choice of pipe sizes, materials and process connections is available
- Extension, immersion length and total length can be chosen according to process requirements
- The process connection can either be threaded or flanged weld
- Special versions can be manufactured according to specifications.
- The connection to the thermometer is a male thread.

Specs at a glance

- **Max. process pressure (static)** 150 bar (2176 psi)
- **Maximum standard immersion length** 4.000 mm (157,48")

Field of application: This device is a metallic protection tube with threaded or flanged welded process connection. Thermometer connection is a metric or male thread, sizes are depending on tube diameters. A wide range of flange sizes according to common standards and materials for this device is available. Ideally, this leads to a wide range of flexible installations in heavy duty applications.

Features and specifications

Thermowell

Measuring principle

Fabricated Thermowell

Thermowell

Characteristic / Application

metric style
various process connections
round extension

Head connection

external thread:
1/2" NPT
3/4" NPT
G1/2"
G3/4"

Maximum standard immersion

length
4.000 mm (157,48")

Thermowell

Process connection

thread:

1/2" NPT

3/4" NPT

1" NPT

M20x1,5

flange:

DN25 PN16 B1

DN25 PN40 B1

DN40 PN40 B1

DN50 PN40 B1

ASME 1" 150 RF

ASME 1" 300 RF

ASME 1" 600 RF

ASME 1 1/2" 150 RF

ASME 1 1/2" 300 RF

ASME 1 1/2" 600 RF

ASME 1 1/2" 600 RTJ

ASME 1 1/2" 600 RTJ

ASME 2" 300 RF

ASME 2" 600 RF

ASME 2" 300 RTJ

ASME 2" 600 RTJ

Thermowell root diameter

1/2" SCH40

1/2" SCH80

3/4" SCH40

3/4" SCH80

Medium contact material

1.4401 (316)

Wetted part finishing (Ra)< 1.6 μ m (63.00 μ in)

Thermowell

Tip shape

straight
reduced

Temperature range

-200...650 °C (-328...1.202 °F)

Max. process pressure (static)

150 bar (2176 psi)

Max. process pressure at 400 °C

depends on process connection

More information www.endress.com/TA541