

TW11

Protection tube for temperature sensors

Designed for use in the fine chemicals industry and generally for almost all industrial processes



Mais informações e preço atual:

www.br.endress.com/TW11

Benefícios:

- Tip of the thermowell with a reduced diameter or tapered for a faster response time
- Customized immersion length
- Surface finishing $Ra < 0.8 \mu m$
- SS 316L/1.4404 and SS 316Ti/1.4571 for the "wetted" parts
- The common threaded process connections are supplied as standard; others are available on request
- Material certification (3.1.B)
- Test with penetrant liquids on welds

Especificações resumidas

- **Max. process pressure (static)** 50 bar (725 psi)
- **Maximum standard immersion length** 4.000 mm (157,48")
- **Max. immersion length on request** 10.000 mm (393,7")

Campo de aplicação: This protection tube is an important component for temperature measurement points for almost all industrial processes, especially for fine chemicals industries. It is used to protect the measuring insert or sensor elements from aggressive process media, high pressures and flow rates from the temperature sensor itself and thereby enables the thermometer to be exchanged during operation.

Características e especificações

Thermowell

Measuring principleFabricated Thermowell

Characteristic / Application

metric style

DIN 43772 Form 2/3

threaded process connection

without neck

Head connection

external thread:

M24 x 1.5

1/2" NPT

Maximum standard immersion length4.000 mm (157,48")

Max. immersion length on request10.000 mm (393,7")

Thermowell

Process connection
thread:

G3/8"

G1/2"

G3/4"

1/2" NPT

3/4" NPT

R1/2"

R3/4"

R1"

M20 x 1.5

Thermowell root diameter

9 mm (0,35")

11 mm (0,43")

12 mm (0,47")

14 mm (0,55")

15 mm (0,59")

Thermowell

Medium contact material

1.4401 (316)

1.4404 (316L)

1.4571 (316Ti)

Wetted part finishing (Ra)

< 0.8 µm (31.50 µin)

Tip shape

straight

reduced

tapered

Temperature range

-200...700 °C (-328...1.292 °F)

Max. process pressure (static)

50 bar (725 psi)

Max. process pressure at 400 °C

depends on process connection

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