

## TW12

### 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/TW12](http://www.br.endress.com/TW12)

#### 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 principle**Fabricated Thermowell

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**Characteristic / Application**

metric style

DIN 43772 Form 2/3

process connection as compression fitting

with neck

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**Head connection**

external thread:

M24 x 1.5

1/2" NPT

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**Maximum standard immersion length**4.000 mm (157,48")

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**Max. immersion length on request**10.000 mm (393,7")

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## Thermowell

**Process connection**

compression fitting:

G1/2"

G3/4"

G1"

1/2" NPT

R1/2"

R3/4"

R1"

M20 x 1.5

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**Thermowell root diameter**

9 mm (0,35")

11 mm (0,43")

12 mm (0,47")

14 mm (0,55")

15 mm (0,59")

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## Thermowell

**Medium contact material**

1.4404 (316L)

1.4571 (316Ti)

1.4843 (310)

2.4816 (Alloy 600)

2.4819 (Alloy C276)

**Wetted part finishing (Ra)**

&lt; 0.8 µm (31.50 µin)

**Tip shape**

straight

reduced

tapered

**Temperature range**

-200...1.100 °C (-328...2.012 °F)

**Max. process pressure (static)**

50 bar (725 psi)

**Max. process pressure at 400 °C**

depends on process connection

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