

# TA557

## Barstock thermowell

Made of drilled barstock material. Mainly used in heavy duty or general purpose applications.



More information and current pricing:

[www.ca.endress.com/TA557](http://www.ca.endress.com/TA557)

### Benefits:

- The extension and the immersion lengths as well as the bar dimensions can be chosen according to process requirements
- A wide choice of standard materials and process connections is available; other versions can be ordered according to specification
- Different grades of surface finishing are also available
- The thermowell stem shape is conical
- The process connection can be threaded or flanged weld

### Specs at a glance

- **Max. process pressure (static)** 500 bar (7252 psi)
- **Maximum standard immersion length** 1000 mm (39,37")
- **Max. immersion length on request** 5.000 mm (196,85")

**Field of application:** Due to the challenging process conditions by heavy duty applications the load capacity of a thermowell must be calculated exactly. Dye penetration tests, ultrasound test, helium leakage test, pressure endurance test as well as various, non-destructive material tests prove the quality of materials and processing.

## Features and specifications

Thermowell

### Measuring principle

Bar stock Thermowell

## Thermowell

**Characteristic / Application**

metric style  
various process connections  
round extension

---

**Head connection**

internal thread:  
1/2" NPT

---

**Maximum standard immersion  
length**

1000 mm (39,37")

---

**Max. immersion length on request**

5.000 mm (196,85")

---

**Process connection**

thread:

1" NPT

flange:

ASME 1" 150 RF (B16.5)

ASME 1" 300 RF (B16.5)

ASME 1" 600 RF (B16.5)

ASME 1 1/2" 150 RF (B16.5)

ASME 1 1/2" 300 RF (B16.5)

ASME 1 1/2" 300 RTJ (B16.5)

ASME 1 1/2" 600 RF (B16.5)

ASME 1 1/2" 600 RTJ (B16.5)

ASME 2" 300 RF (B16.5)

ASME 2" 600 RF (B16.5)

ASME 2" 300 RTJ (B16.5)

ASME 2" 600 RTJ (B16.5)

---

**Thermowell root diameter**

25 mm (0,98")

---

## Thermowell

**Medium contact material**

1.4401 (316)  
1.4404 (316L)  
1.4571 (316Ti)  
2.4819 (Alloy C276)  
2.4360 (Alloy 400)

---

**Wetted part finishing (Ra)**

< 0.8  $\mu\text{m}$  (31.50  $\mu\text{in}$ )  
< 1.6  $\mu\text{m}$  (63.00  $\mu\text{in}$ )

---

**Tip shape**

straight  
conical

---

**Temperature range**

-200...700 °C (-328...1.292 °F)

---

**Max. process pressure (static)**

500 bar (7252 psi)

---

**Max. process pressure at 400 °C**

300 bar (4351 psi)

---

More information [www.ca.endress.com/TA557](http://www.ca.endress.com/TA557)