

TT511

Barstock thermowell Vanstone design

Metric thermowell for applications in the oil & gas industry



More information and current pricing:

www.endress.com/TT511

Benefits:

- Solid thermowell, made of drilled bar stock material.
- Fulfillment of various, industry specific requirements with a standard product. Flexible selection of immersion length and thermowell geometry according to the process specifications.
- In accordance with Shell specification: S.38.113 rev.D and S.38.114 rev.D
- Exact thermowell stress calculation ensuring safe plant operation.
- Vanstone design with outstanding cost effectiveness:
Reuse of the flange if the thermowell has to be replaced, flexible selection of the flange material as well as reduced spare parts and storing concept.

Specs at a glance

- **Max. process pressure (static)** depending on process connection up to 2500 lbs
- **Maximum standard immersion length** 500 mm (19,69")
- **Max. immersion length on request** 500 mm (19,69")

Field of application: It is a specially designed thermowell for thermometer installation. The thermowell shaft and the process connection flange are not interconnected. For installation, the collar of the thermowell is fitted between two flanges; on the one hand it is fitted onto the thermowell and on the other hand it is bolted to the connection nozzle on the process side. Many different flange versions are available to secure the unit to the permanently installed nozzle flange. It is machined from solid bar stock.

Features and specifications

Thermowell

Measuring principle

Bar stock Thermowell

Characteristic / Application

metric style

Vanstone type

with collar flange

Head connection

thread:

1/2" NPT

without connection

Maximum standard immersion length

500 mm (19,69")

Max. immersion length on request

500 mm (19,69")

Thermowell

Process connection

Collar flange

1 1/2" 150

1 1/2" 300

1 1/2" 400

1 1/2" 600

1 1/2" 900

1 1/2" 1500

2" 150

2" 300

2" 400

2" 600

2" 900

2" 1500

2" 2500

DN25 PN40

DN25 PN100

DN50 PN40

DN50 PN63

DN50 PN100

DN80 PN40

Thermowell root diameter

30 mm (1,18")

20 mm (0,79")

Medium contact material

1.4401 (316)

1.4571 (316Ti)

Alloy400

Alloy625

A182 F51

A182 F55

Thermowell

Wetted part finishing (Ra)

$\leq 1,6 \mu\text{m}$ (63.00 μin)

$\leq 0,8 \mu\text{m}$ (31.50 μin) or roughened to $Ra=6$
(0.24 μm)

Tip shape

conical or tapered

Temperature range

-200...700°C (-328...1.292 °F)

Max. process pressure (static)

depending on process connection up to 2500 lbs

Max. process pressure at 400 °C

depends on process connection

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