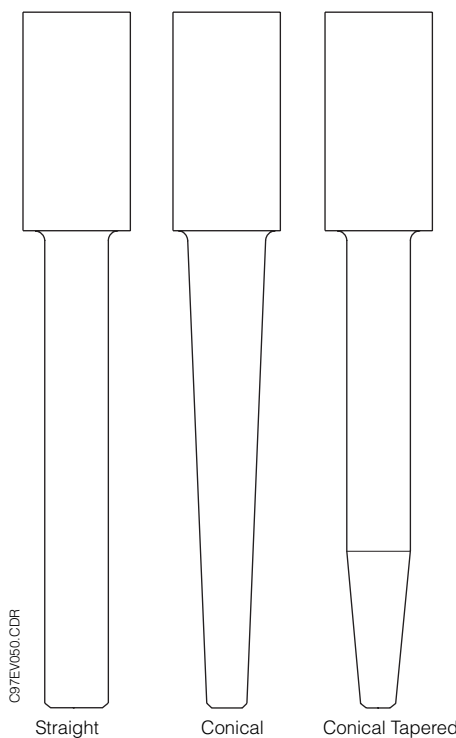


Industrial Protecting Tube *omnigrad TA571*

Heavy duty - General purpose
From round bar stock

Socket weld type - $\varnothing 34 \div 30$ mm



Description

TA571 is an industry standard thermowell, manufactured from round bar stock. The process connection is socket weld. The thermowell stem shape can be straight, conical or conical tapered. The extension, the immersion and the tapering lengths as well as the bar dimensions can be chosen according to process requirements. A wide choice of standard materials is available; other versions can be ordered according to specification. Different grades of surface finishing are also available.

Application

TA571 is designed for use with resistance and thermocouple thermometers mainly in heavy duty applications.

Technical data

Round bar

Socket size diameter:	34 $\div$ 30 mm
Immersion O.D.:	$\leq$ socket size diameter
Standard extension length:	45 or 80 mm
Standard bore diameter:	7 mm
Standard material:	AISI316Ti / W.1.4571, AISI316 / W.1.4401, AISI316L / W.1.4404

Connection to thermometer

Thread:	1/2" NPT, 1/2" NPSM, 1/2" BSP(G1/2"), 1/2" BSPF - female
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Process connection

Type:	socket weld
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Tip

Bottom shape:	straight, conical or conical tapered
Standard bottom thickness:	4 $\div$ 6.35 mm

Surface

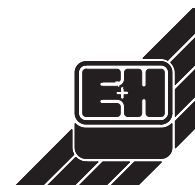
Finishing:	0.8 micron - standard 0.2 micron
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Quality made by
Endress+Hauser



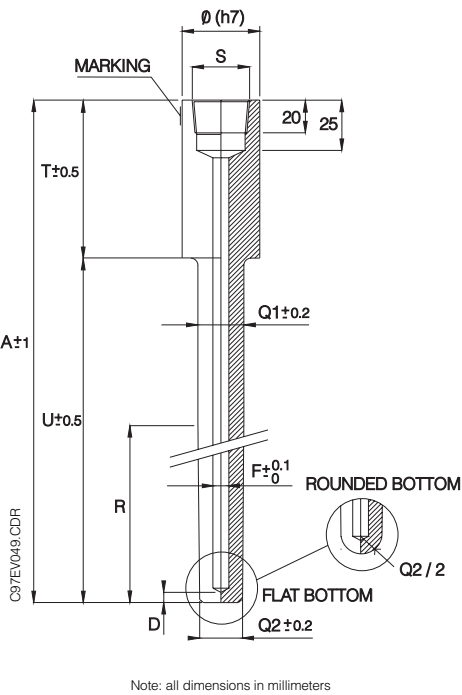
ISO 9001

Endress+Hauser
Nothing beats know-how



Order key

TA571 - Heavy duty thermowell - General purpose - From round bar stock
Socket weld type - Ø 34 ÷ 30 mm



Thermometer connection S

- 1 - 1/2" NPSM (*)
- 2 - 1/2" NPT
- 3 - 1/2" BSP (G 1/2")
- 4 - 1/2" BSPF

Extension T \ Socket size Ø [2]

Outside diameter Q1 \ Taper diameter Q2 \ Taper length R

- 1 - T = 80 mm \ Ø = 32 mm
Q1 = 20 mm \ Q2 = 18 mm \ R = 135 mm
- A - T = 45 mm (1 3/4") \ Ø = 34 mm (1.315")
Q1 = 25.4 mm (1") \ Q2 = 19.5 mm (49/64") \ R = 0 mm (0")
- 9 - T = \ Ø =
Q1 = \ Q2 = \ R = to specification [1]

Immersion Length U (50 ÷ 955 mm) [2]

- DA - 150 mm
- DB - 270 mm
- DC - 400 mm
- YY - mm length to specification

Material of Nominal Length A (U+T)

- B - AISI316Ti / W. 1.4571
- C - AISI316 / W. 1.4401
- D - AISI316L / W. 1.4404
- Y - Material to specification

Finishing of Immersion Length U

- 1 - 0.8 micron - standard
- 2 - 0.2 micron

Bottom thickness D / Tip shape

- A - 4 mm bottom / Flat
- C - 6.35 mm bottom / Flat
- D - 6 mm bottom / Rounded 1/2 Q2
- Y - Bottom thickness and tip shape to specification

Bore diameter F

- 1 - 7 mm bore
- 9 - Bore to specification [1]

Plug and chain

- A - Without plug and chain
- B - AISI 304 plug and chain

Markings

- 0 - None
- 1 - Punched on

TA571-										Complete Order Code
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Notes: (*) Thermowell thread complete with 1/2" NPS plug.
NPSM internal pipe thread will accept both NPT
and NPS male thread.
[1] Wall thickness 3 mm minimum: (Q2 - F) / 2 ≥ 3 mm
[2] Nominal Length A: 95 ÷ 1000 mm

Supplementary documentation

- ☐ Industrial Protecting Tubes
Technical Information TI138T/02/en



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