

Solid Machined, Weld-in Type Model SI400S

WIKA Data Sheet TW 90.85

Applications

- Petrochemical, On/Offshore, plant engineering
- For high process loads

Special Features

- Design for use of exotic material
- International standard

Description

Thermowell material

Stainless steel 316 L (1.4404) , 316 Ti (1.4571)
A105, A182 Grade F11, A182 Grade F22, A182 Grade F91

Prozess connection

Ø 26.7 mm, Ø 33.4 mm, Ø 38.1 mm, Ø 48.3 mm

Instrument connection

½" NPT female

Bore size

Ø 6,6 mm / Ø 8,5 mm

Insertion length U₁

To customer spezifikation

Connection lenght T

To customer spezifikation (minimum 45 mm)

Total length L

Insertion length U₁ + connection lenght T



Thermowell, Weld-in Type Model SI400S

Maximum process temperature 1)

600 °C for thermowell material 316 Ti (1.4571)

Maximum process pressure (static) 1)

150 bar for thermowell material 316 Ti (1.4571)

1) Ratings depends on below parameters:

- Process medium
- Process pressure and temperature
- Flow rate
- Design of thermowell (dimensions, material)

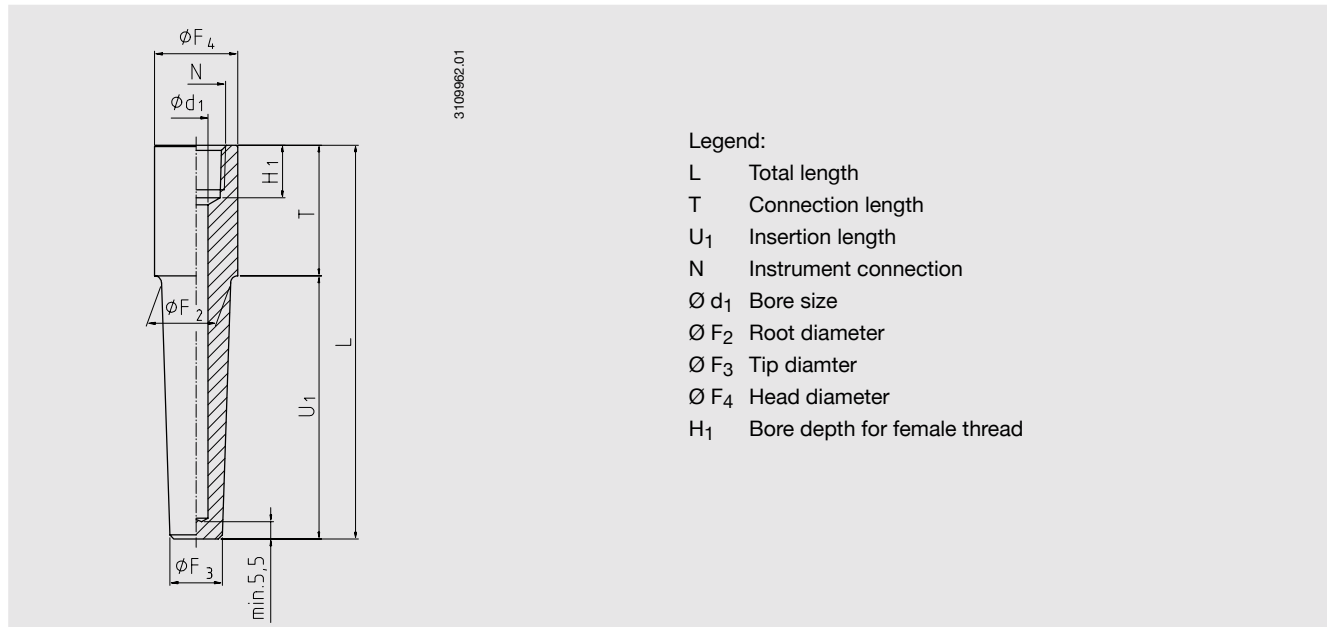
Optional extras

- Other dimensions and materials
- Quality certificates
- Wake frequency calculations according to ASME PTC 19.3 are recommended in critical applications. WIKA offer this as an engineering service.

Following process data are necessary for the calculation:

- Process pressure (in bar or psi)
- Process temperature (in °C or °F)
- Flow rate (in m/s)
- Density (in kg/m³)
- Dimensions and material of thermowell

Dimensions in mm



Legend:

- L Total length
- T Connection length
- U₁ Insertion length
- N Instrument connection
- Ø d₁ Bore size
- Ø F₂ Root diameter
- Ø F₃ Tip diameter
- Ø F₄ Head diameter
- H₁ Bore depth for female thread

Dimensions in mm					Weight in kg	
Ø F ₄	N	Ø F ₂	Ø F ₃	Ø d ₁	L = 150 mm	L = 610 mm
26.7	½" NPT	19	16	6.6 or 8.5	0.4	1.1
33.4	½" NPT, ¾" NPT	25	19	6.6 or 8.5	0.6	1.9
38.1	½" NPT, ¾" NPT	25	19	6.6 or 8.5	0.7	2.0
48.3	½" NPT, ¾" NPT	38	19	6.6 or 8.5	1.2	3.5

Suitable stem lengths of mechanical thermometers

Design of connection	Stem length l ₁
S / 4 / 5	l ₁ = L - 10 mm or l ₁ = U ₁ + T - 10 mm

Ordering information

Model / Material / Head diameter / Instrument connection / Bore size / Insertion length U₁ / Connection length T / Optional extras required

Änderungen und den Austausch von Werkstoffen behalten wir uns vor.
Die beschriebenen Geräte entsprechen in ihren Konstruktionen, Maßen und Werkstoffen dem derzeitigen Stand der Technik.

