

## Solid Machined, to Screw in with Milled Wrench Flats Model SI740G

WIKA Data Sheet TW 90.26

### Applications

- Chemical engineering, process engineering, apparatus engineering
- For high chemical loads
- 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)  
Hastelloy C4 (2.4610), Hastelloy C276 (2.4819),  
Monel 400 (2.4360), Titan Grade 2 (3.7035)  
Material to ASTM specification

#### Prozess connection

1" NPT male

#### Instrument connection

½" NPT female

#### Bore size

Ø 6,6 mm / Ø 8,5 mm

#### Insertion length U

To customer spezifikation

#### Connection lenght T

To customer spezifikation (minimum 45 mm)

#### Total length L

Insertion length U + connection lenght T



Thermowell, screwed connection Model SI740G

#### Maximum process temperature

Depend on thermowell material

#### Maximum process pressure (static) 1)

150 bar

1) Ratings depends on below parameters:

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

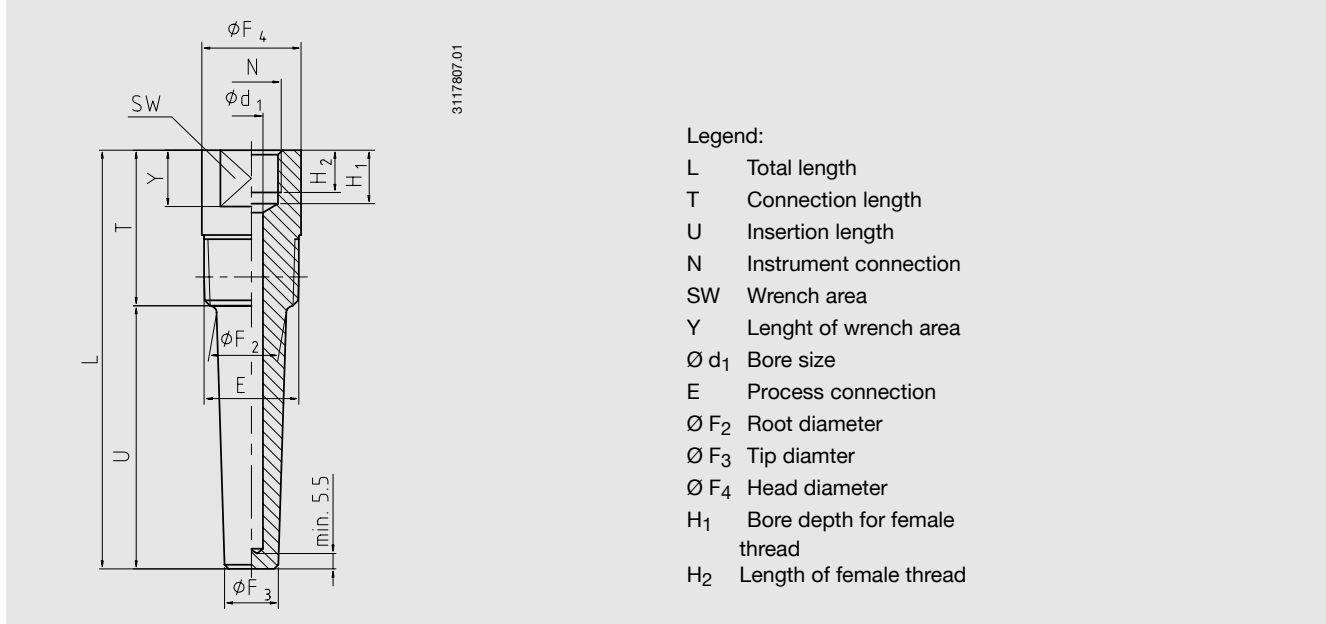
## Optional extras

- 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/m<sup>3</sup>)
- Dimensions and material of thermowell

## Dimensions in mm



- Legend:
- L Total length
  - T Connection length
  - U Insertion length
  - N Instrument connection
  - SW Wrench area
  - Y Length of wrench area
  - Ø d<sub>1</sub> Bore size
  - E Process connection
  - Ø F<sub>2</sub> Root diameter
  - Ø F<sub>3</sub> Tip diameter
  - Ø F<sub>4</sub> Head diameter
  - H<sub>1</sub> Bore depth for female thread
  - H<sub>2</sub> Length of female thread

Dimensions in mm								
E	N	Ø d <sub>1</sub>	Ø F <sub>2</sub>	Ø F <sub>3</sub>	Ø F <sub>4</sub>	H <sub>1</sub>	SW	Y
1" NPT	½" NPT	6.6	27	16	34	19	28	20
1" NPT	½" NPT	8.5	27	19	34	19	28	20

Weight in kg <sup>1)</sup>					
U = 2,5" (ca. 63 mm)	U = 4,5" (ca. 114 mm)	U = 7,5" (ca. 190 mm)	U = 300 mm	U = 400 mm	U = 500 mm
0.5	0.6	0.8	1.1	1.4	1.6

1) For connection length T = 1 ¾" (ca. 45 mm)

## Suitable stem lengths of mechanical thermometers

Design of connection	Stem length l <sub>1</sub>
S / 4 / 5	l <sub>1</sub> = L - 10 mm or l <sub>1</sub> = U <sub>1</sub> + T - 10 mm
2	l <sub>1</sub> = L - 30 mm or l <sub>1</sub> = U <sub>1</sub> + T - 30 mm

## Ordering information

Model / Material / Bore size / Insertion length U / Optional extras required

Modifications may take place and materials specified may be replaced by others without prior notice. Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.

