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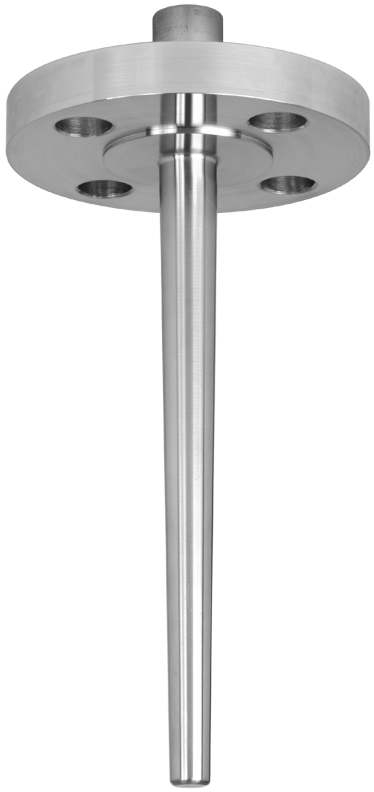
Solid Machined, with Flange in Full Penetration Welded Construction Model SI410F

Applications

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

Special Features

- Extra heavy construction
- Connection flange - well in full penetration welded construction
- Certificated to ASME Sec. IX



Thermowell with flange Model SI410F

Description

Thermowell material
Stainless steel 316 L (1.4404) , 316 Ti (1.4571)

Nominal diameter
to ASME: 1", 1½", 2"

Pressure rating
to ASME: 150 lbs, 300 lbs, 600 lbs, 900/1500 lbs

Instrument connection
½" NPT female

Bore size
Ø 6.6 mm / Ø 8.5 mm

Insertion length U_1

Inch	4,	7,	10,	13,	16,	22
Approx. mm	100,	180,	255,	330,	450,	560

Total length L
Insertion length U_1 + connection length T

Maximum process temperature 1)
600 °C for thermowell material 316 Ti (1.4571)

Maximum process pressure (static) 1)
Depend on pressure rating of flange

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

1) Ratings depends on below parameters:
- Process medium
- Process pressure and temperature
- Flow rate
- Design of thermowell (dimensions, material)

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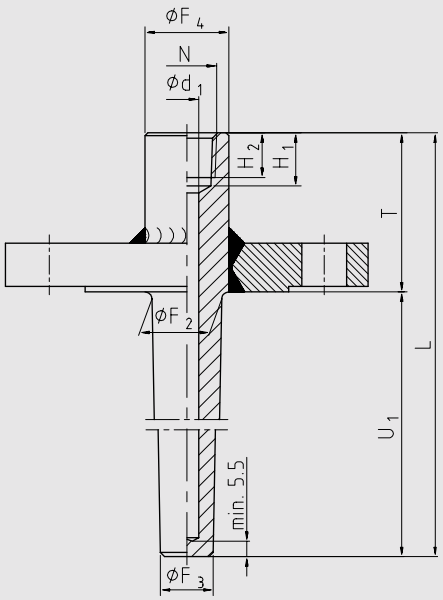
Dimensions in mm



Legend:

L	Total length
T	Connection length
U_1	Insertion length
N	Instrument connection
Ø d_1	Bore size
Ø F_2	Root diameter
Ø F_3	Tip diamter
Ø F_4	Head diameter
H_1	Bore depth for female thread
H_2	Length of female thread

DN	PN in lbs	Dimensions in mm T	Ø F_2	Ø F_3	Ø d_1	Ø F_4	H_1	H_2	Weight in kg U_1=4"	U_1=13"	U_1=22"
1"	150	2¼" (ca. 57 mm)	22	16	6.6 or 8.5	30	19	15	1.4	1.9	2.3
	300								2.1	2.6	3
	600								2.3	2.8	3.2
	1500	3¼" (ca. 83 mm)							4.3	4.8	5.2
1½"	150	2¼" (ca. 57 mm)	25	19					1.8	2.4	3
	300								3.3	3.9	4.5
	600	3¼" (ca. 83 mm)							4	4.7	5.3
	1500								6.4	7.1	7.7
2"	150	2¼" (ca. 57 mm)							2.5	3.1	3.7
	300								3.7	4.3	4.9
	600	3¼" (ca. 83 mm)							4.2	4.9	5.5
	1500								11	11.6	12.3

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
2	l_1 = L - 30 mm	or	l_1 = U_1 + T - 30 mm

Ordering information

Model / Material / Flange / Instrument connection / Bore size / Insertion length U_1 / Optional extras required

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