

Solid Machined, for Lap Flanges

Vanstone Design

Model TW30

WIKA Data Sheet TW 95.30

Applications

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

Special Features

- Very heavy construction
- Solid machined without weld seam
- Thermowell style
 - Model TW30-A: tapered
 - Model TW30-B: straight
 - Model TW30-C: stepped
- Suitable for lap flanges acc. to ASME B16.5

Description

Thermowell material

Stainless steel 304/304L, 316/316L, A105, 1.4571
Hastelloy C4 (2.4610), Hastelloy C276 (2.4819),
Monel 400 (2.4360), Titan Grade 2 (3.7035)
materials according to ASTM specifications

Instrument connection

½ NPT, G ½ female

Bore size

Ø 6.6 mm, Ø 8.5 mm

Insertion length U

To customer specification

Connection length H

To customer specification (standard 57 mm)

Maximum process temperature 1)

Dependent upon thermowell material



Thermowell for lap flanges Model TW30

Optional extras

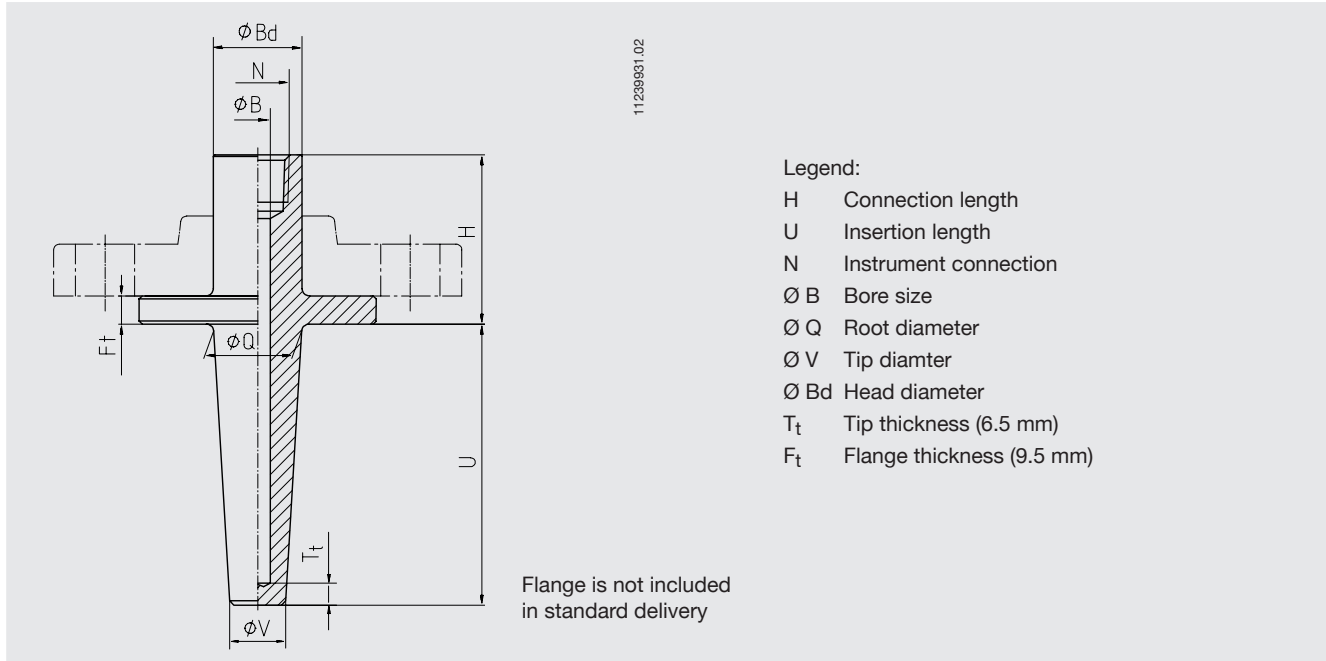
- Other dimensions and materials
- Quality certificates
- Wake frequency calculations in accordance with ASME PTC 19.3 are recommended in critical applications. WIKA offer this as an engineering service. Please find further information in our separate technical information sheet, IN 00.15 "Strength calculation for thermowells"

1) Rating depends on the parameters below:

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

Dimensions in mm

Model TW30-A



- Legend:
- H Connection length
 - U Insertion length
 - N Instrument connection
 - Ø B Bore size
 - Ø Q Root diameter
 - Ø V Tip diameter
 - Ø Bd Head diameter
 - T_t Tip thickness (6.5 mm)
 - F_t Flange thickness (9.5 mm)

Thermowell style tapered

Lap-flange		Dimensions in mm					Weight in kg				
DN	PN	H	Ø Q	Ø V	Ø B	Ø Bd	U = 4"	U = 13"	U = 22"		
in lbs											
1"	150	2¼" (ca. 57 mm)	22	16	6.6 or 8.5	33.4	1.1	1.6	2.1		
	300									3¼" (ca. 83 mm)	2.7
	600	25					19	60.3	2.7		
	1500										
1½"	150	2¼" (ca. 57 mm)	25	19	6.6 or 8.5	48.3	1.8	2.5	3.3		
	300									3¼" (ca. 83 mm)	2.7
	600	25					19	60.3	2.7		
	1500										
2"	150	2¼" (ca. 57 mm)	25	19	6.6 or 8.5	60.3	2.7	3.4	4.1		
	300									3¼" (ca. 83 mm)	2.7
	600	25					19	60.3	2.7		
	1500										

Suitable stem lengths for mechanical thermometers

Connection design	Stem length I ₁
S / 4 / 5	I ₁ = U + H - 10 mm
2	I ₁ = U + H - 30 mm

Sealing surface roughness

Flange standard		AARRH in pinch	Ra in µm
ASME	Stock finish	125-250	3,2 - 6,3
B 16.5	Smooth finish	< 125	< 3,2

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.



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