TM 90.25

Thermowells

Solid Machined, Screwed Connection

OBSOLETE

Thermometers

per International Standard • Model SI710G

Application

The thermowells model SI710G are screw-fitted into the process. They are suitable for high process loads, that might occur as a result of flow, temperature and process pressure influences or vibrations.

Standard features

Thermowell material
Stainless steel 316L
Stainless steel 316Ti

Process connection
½ NPT, ¾ NPT, 1 NPT

Instrument connection
Female thread ½ NPT

Bore size
Ø 6,6 mm, Ø 8,5 mm

Insertion length U
2 ¼", 4 ½" or 7 ½"
75, 100, 150 or 200 mm

Total length L
Insertion length + 1 ¾" (if dimensions in inches)
Insertion length + 50 mm (if dimensions in mm)

Maximum process temperature [1)]
600 °C

Maximum process pressure (static) [1)]
150 bar

Optional extras

- Other dimensions and materials
- Quality certificates
- Wake frequency calculations according to ASME / ANSI PTC 19.3 or to Dittrich / Klotter 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)

Dimensions

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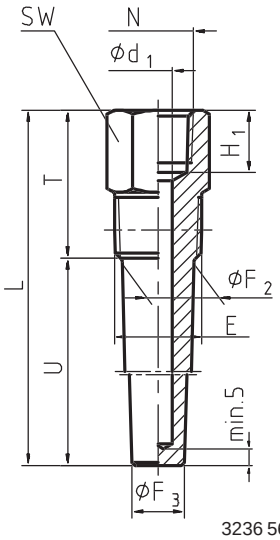
Dimensions in mm								Weight in kg	
E	N	Ø d_1	Ø F_2	Ø F_3	H_1	T	SW	U = 2 ½ "	U = 7 ½ "
½ NPT	½ NPT	6.6	16	13	19	1 ¾ " or 50 mm	27	0.200	0.360
		8.5						0.190	0.320
¾ NPT		6.6	22	16				0.310	0.560
		8.5						0.300	0.520
1 NPT		6.6	27				36	0.500	0.840
		8.5		19				0.510	0.880



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Legend:

E Process connection
H_1 Bore depth for female thread
L Total length
N Instrument connection
SW Across flats
T Connection length
U Insertion length
Ø d_1 Bore size
Ø F_2 Root diameter of thermowell
Ø F_3 Tip diameter of thermowell

Suitable stem lengths of mechanical thermometers

Dial thermometers

Design of connection	Connection length T	Stem length l_1		
S/4/5	T = 1 ¾ " (approx. 45 mm)	l_1 = L - ¼ "	or	l_1 = U + 1 ½ "
	T = 50 mm	l_1 = L - 5 mm	or	l_1 = U + 45 mm

Ordering information

State: Model / Material / Process connection / Instrument connection / Bore size / Insertion length U / Optional extras required

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