

Fabricated, with Flange Model SD200F

WIKA Data Sheet TW 90.15

Applications

- Chemical engineering, process engineering, apparatus engineering
- For low and medium process loads

Special Features

- Design to DIN 43 772 Form 2F
- With integrated necktube

Description

Thermowell material

Stainless steel 1.4571

Process connection

Flanges to valid national or international standards like EN 1092-1, DIN 2527, ASME B16.5

Instrument connection

running nut M24 x 1.5

Bore size

Ø 7 mm / Ø 9 mm

Insertion length U_1

225, 315, 465 mm

Total length L

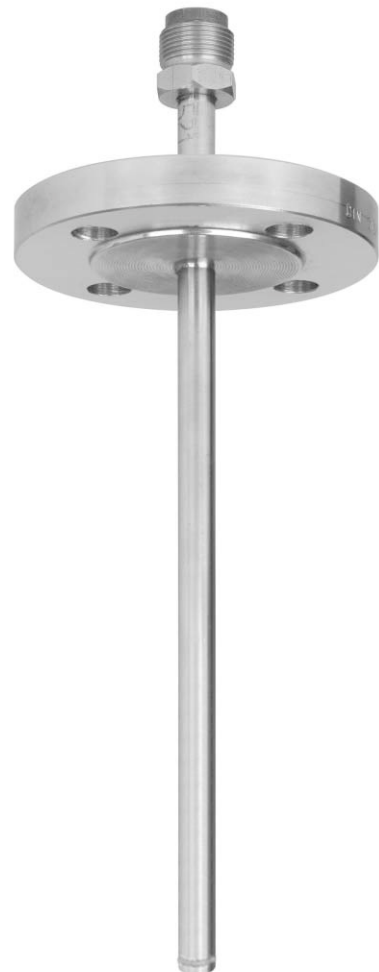
Insertion length U_1 + 80 mm

Maximum process temperature 1)

600 °C for thermowell material 1.4571

Maximum process pressure (static) 1)

depend on pressure rating of flange



Thermowell with flange Model SD200F

1) Ratings depends on below parameters:

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

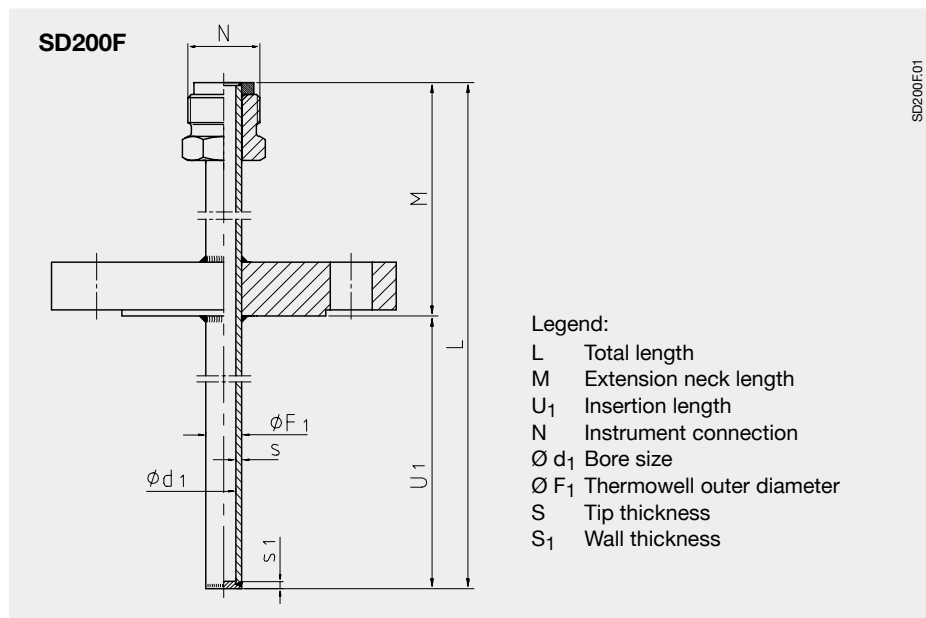
Optional extras

- Other dimensions and materials
- Quality certificates
- Wake frequency calculations according to 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

Dimensions in mm



Dimensions in mm						Weight in kg
N	M	Ø d ₁	Ø F ₁	S	S ₁	Flange DN 25 PN 16-40 U ₁ =465 mm
M24 x 1.5	80	7	9	1	3	1.39
M24 x 1.5	80	7	11	2	3	1.55
M24 x 1.5	80	7	12	2.5	3.5	1.64
M24 x 1.5	80	9	14	2.5	3.5	1.71

additional weight in kg with other flange		
DN 40	PN 16-40	0.76
DN 50	PN 16-40	1.63
1"	150 lbs	-0.46
1"	300 lbs	0.04
1"	600 lbs	0.22
1 ½"	150 lbs	0.22
1 ½"	300 lbs	1.34
1 ½"	600 lbs	1.85

Suitable stem lengths of mechanical thermometers

Dial thermometers	Stem length l ₁
Design of connection	
3	l ₁ = L - 10 mm or l ₁ = U ₁ + M - 10 mm

Ordering information

Model / Material / Flange / Instrument connection / Bore size / Total length L / Insertion length U₁ / 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.



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