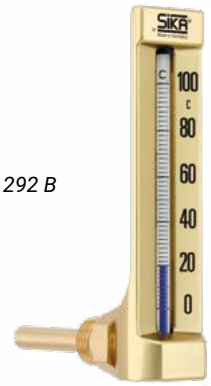
Industrial thermometers type 271, 272, 291, 292 B

Fixed male thread // Nominal size 200 and 150 // Aluminium anodized

271 B



292 B



Highlights

- Accuracy according to DIN 16195
- No aging - no moving parts and no mechanical wear
- Lifetime warranty*
- Completely without electrical auxiliary energy

Technical data				
Type	271 B	272 B	291 B	292 B
Standard	DIN 16189 B, DIN 16190 S, S1 and DIN 16191 B, B1		DIN 16185 B and DIN 16186 S	
Version	Straight	Angle 90°	Straight	Angle 90°
Dimensions Housing	200 x 36 mm		150 x 36 mm	
Measuring range according to DIN	Between -30...250 °C			
Error limits according to DIN 16195	-30...100 °C = 2 °C 0...120 °C = 2 °C 0...200 °C = 4 °C		-30...120 °C = 2 °C 0...160 °C = 4 °C	
Medium / Application	Liquid and gaseous media			
Immersion tube length	Between 63...250 mm			
Immersion tube diameter	Ø 10 mm			
Process connection	Fixed male thread G½, G¾, M20 x 1.5, M27 x 2			
Pressure rating**				
→ Immersion tube brass, brazed	PN 16			
→ Immersion tube steel or stainless steel, welded	PN 35			
→ Immersion tube special brass or CuNi30Fe	PN 16			

* Except glass breakage and improper installation.

** Non-binding guideline - For higher pressure loads, additional protection tubes have to be used.

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GRUBATEC MESS- UND REGELTECHNIK

SIKA

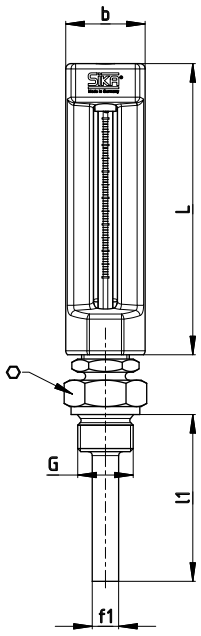
Technical data

Technical data	
Medium temperature	See selected measurement range
Ambient temperature	-20…60 °C
Storage temperature	-40…100 °C
Approvals	

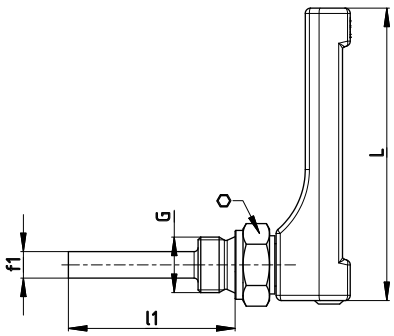
Options	
For type	**See separate data sheet**
271 / 272 B	Process connection with union nut, Types Da / Dc
291 / 292 B	Version for serial applications Types HBZ / WBZ

Technical drawings // Dimensions

Type 271 B / 291 B



Type 272 B / 292 B



Dimensions [mm]					
Type	**L**	**f_1**	**b**	**l_1**	**G / ⬡ Width across flats**
291 B / 292 B	150	Ø 10	36	63	G½ / SW27
271 B / 272 B	200			100	G¾ / SW32
				160	M20 x 1.5 / SW27
				250	M27 x 2 / SW32

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Materials

Material	
Not in contact with media	
Housing	Warm pressed aluminium part, gold anodized
Thermometer capillary	Prismatic capillary tube of solid glass, bar-shaped, diameter approx. Ø 6 mm, scale permanently burnt in
Thermometer filling → Blue	 Petroleum
In contact with media	
Process connection	see immersion tube material
Immersion tube material → Standard → Optional	 Brass, brazed Stainless steel, welded Special brass (sea water resistant) Copper nickel alloy CuNi30Fe (sea water resistant)

Article numbers

Order code								
Version	**Nominal size**							
Straight	200 mm	271						
Angle 90 °		272						
Straight	150 mm	291						
Angle 90 °		292						
Immersion tube type								
Type B - fixed male thread			2					
Display ranges								
-30...50 °C				35				
0...60 °C				06				
0...100 °C				10				
0...120 °C				12				
0...160 °C				16				
0...200 °C				20				
0...250 °C				25				
Scale								
Celsius °C					1			
Celsius and Fahrenheit (°C + °F)					2			
Thermometer filling								
Blue						1		
Immersion tube length (l_1)								
63 mm							063	
100 mm							100	
160 mm							160	
250 mm							250	
Process connection								
G½ / SW27								2
G¾ / SW32								3
M20 x 1.5 / SW27								7
M27 x 2 / SW32								9
Immersion tube material								
Brass								1
Stainless steel								3
Special brass								4
Copper nickel alloy								5
Example order number		**271**	**2**	**35**	**1**	**1**	**063**	**2**	**1**

If required please ask for our specification sheet „Immersion tube material"

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BEST SELLER

Type		Immersion tube length (l_1)	Order number							
271 B	Straight type, nominal size 200 mm, 0...100 °C, with fixed male thread G½, Immersion tube brass	63 mm	**271**	**2**	**10**	**1**	**1**	**063**	**2**	**1**
271 B		100 mm	**271**	**2**	**10**	**1**	**1**	**100**	**2**	**1**
291 B	Straight type, nominal size 150 mm, 0...100 °C, with fixed male thread G½, Immersion tube brass	63 mm	**291**	**2**	**10**	**1**	**1**	**063**	**2**	**1**
291 B		100 mm	**291**	**2**	**10**	**1**	**1**	**100**	**2**	**1**
292 B	Angle type, nominal size 150 mm, 0...100 °C, with fixed male thread G½, Immersion tube brass	63 mm	**292**	**2**	**10**	**1**	**1**	**063**	**2**	**1**
292 B		100 mm	**292**	**2**	**10**	**1**	**1**	**100**	**2**	**1**

Accessories

Accessories	Article number
Measuring point designation Laser-inscribed stainless steel plate with fixing wire for easy attachment to measuring points → **Scope of delivery:** Designation plate inscribed according to specification and enclosed fixing wire (sealing wire) → **Fastening:** Wire (included in delivery), alternatively sealing, cable ties or similar (not included in delivery) → **Materials:** Plate stainless steel 1.4571, wire stainless steel → **Dimensions:** Plate 55 x 10 x 0.8 mm, wire length 180 mm → **Inscription:** one-sided, single-line, max. 11 characters, character height 5 mm, designation width max. 40 mm, letters, numbers, symbols, barcodes, QR codes → **Transmission of designations:** digital list, file formats Excel, Word or CSV	**ONSITETAG**

