

Fixed male thread // Nominal size 200, 150, 110 // Polyamid case



Your advantages

Series

471 / 491 / 474 / 472 / 492 / 475 B

- Accuracy according to DIN 16195
- No aging - no moving parts and no mechanical wear
- Lifetime warranty*
- Series production for large volume use
- Completely without electrical auxiliary energy

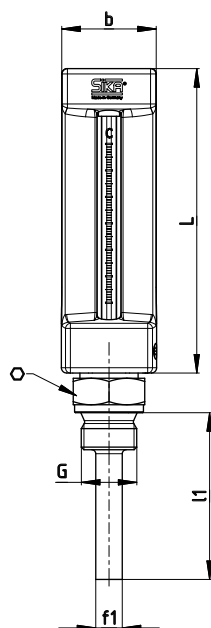
Technical data

Type	471 B	472 B	491 B	492 B	474 B	475 B
Standard	DIN 16181 to 16190					
Version	Straight	Angle 90°	Straight	Angle 90°	Straight	Angle 90°
Dimensions Housing	200 x 36 mm		150 x 36 mm		110 x 36 mm	
Measuring range according to DIN	Between -30...200 °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		2 °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					
Pressure rating** → Immersion tube brass, brazed → Immersion tube steel or stainless steel, welded	PN 16 PN 35					
Medium temperature	See selected measurement range					
Ambient temperature	-20...160 °C					
Storage temperature	-40...100 °C					

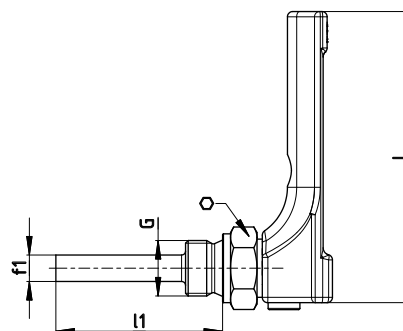
* Except glass breakage and improper installation.

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

Type 471 B / 491 B / 474 B



Type 472 B / 492 B / 475 B



Dimensions [mm]	L	f ₁	b	l ₁	G / ∅ Width across flats
471 B / 472 B	200	∅ 10	36	63	G½ / SW27
291 B / 292 B	150		36	100	
174 B / 175 B	110		36	160	
				250	

Material	
Housing	Moulded polyamide casting, black
Thermometer capillary	Prismatic capillary tube of solid glass, bar-shaped, diameter approx. ∅ 6 mm, scale permanently burnt in
Thermometer filling → Blue	Petroleum
Material in contact with media	
Process connection	see immersion tube material
Immersion tube material → Standard → Optional	Brass, brazed Stainless steel, welded

Order code																
Version																
Nominal size 200																
Black, Straight	471															
Black, Angle 90°	472															
Nominal size 150																
Black, Straight	491															
Black, Angle 90°	492															
Nominal size 110																
Black, Straight	474															
Black, Angle 90°	475															
Immersion tube type		2														
Straight / Angle 90 °																
Display ranges																
-30...50 °C										35						
-10...50 °C										04						
0...60 °C										06						
0...100 °C										10						
0...120 °C										12						
0...160 °C										16						
0...200 °C										20						
Scale																
Celsius °C				1												
Thermometer filling																
Blue					1											
Immersion tube length (l ₁)																
63 mm							063									
100 mm							100									
160 mm							160									
250 mm							250									
Process connection																
G1½ / SW27 (other threads on request)								2								
Immersion tube material																
Brass									1							
Stainless steel 1.4571									3							
Example order number		471	2	35	1	1	063	2	1							

Note minimum order quantities.

