

BI-METAL THERMOMETERS

AY/AI/AY-QS SERIES

Technical Data

Material of case & cover: SS304, SS316 available

Material of stem: 316 stainless steel

Lens: Glass, safety glass available

Housing enclosure: IP65, liquid filled available

Dial size: Ø3", 4", 5" available

Type: AY / AI / AY-QS available

Range limit: -50 to 600°C

Stem dimensions: Ø4, 6, 8, 10 mm available

Stem length limit: 65~1000 mm

External zero adjustable

Accuracy: ±1% (FS)

Process connection: 1/2" NPT standard, others available

Over range protection: 130% FS



AY SERIES



AI SERIES

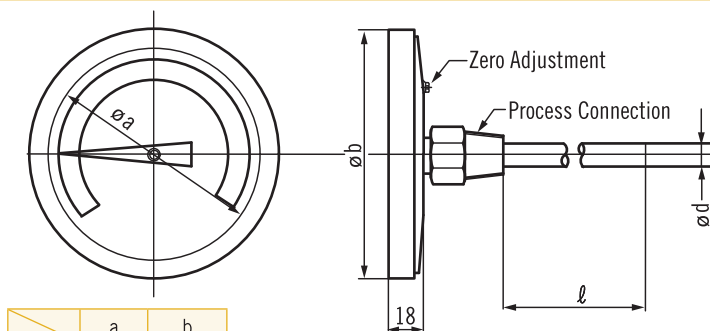


AY-QS SERIES

Dimensions

AY3 (Ø75) AY4 (Ø100) AY5 (Ø125)

Back connection

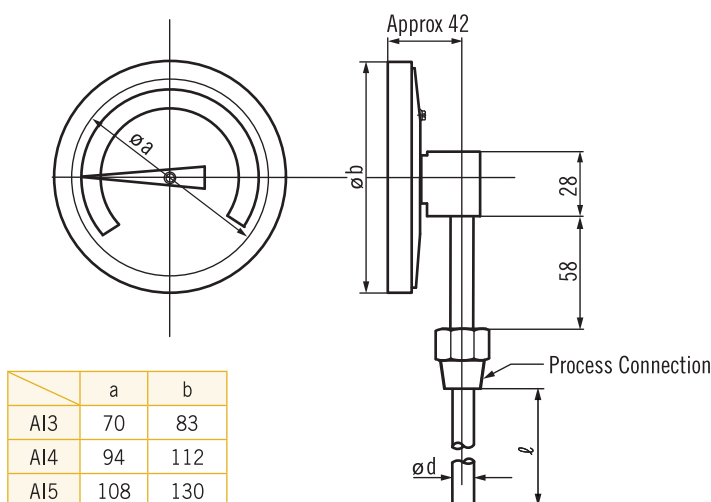


	a	b
AY3	70	83
AY4	94	112
AY5	108	130

* Øb, l refer to range and stem table

AI3 (Ø75) AI4 (Ø100) AI5 (Ø125)

Bottom connection

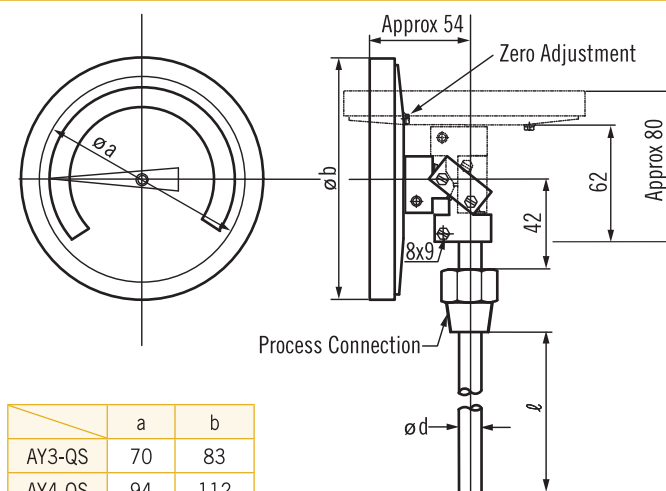


	a	b
AI3	70	83
AI4	94	112
AI5	108	130

* Øb, l refer to range and stem table

AY3-QS (Ø75) AY4-QS (Ø100) AY5-QS (Ø125)

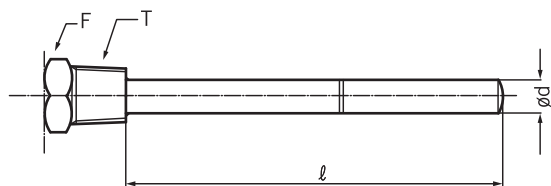
Every angle connection



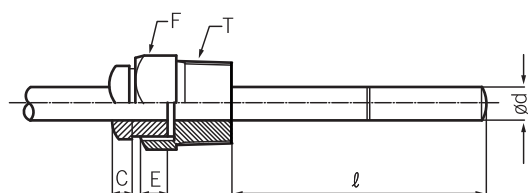
	a	b
AY3-QS	70	83
AY4-QS	94	112
AY5-QS	108	130

* Øb, l refer to range and stem table

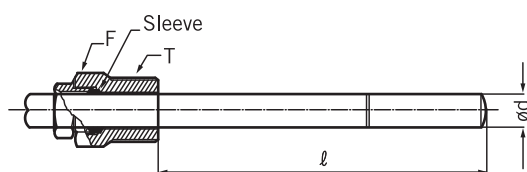
Connection Type



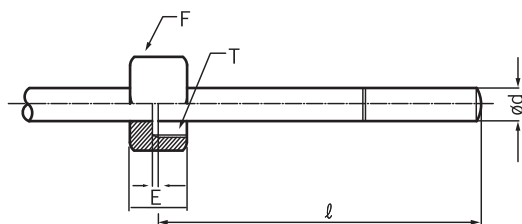
(A) Fixed Thread Type



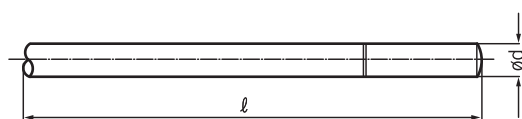
(B) Rotary Thread Type



(C) Slide Thread Type
(Length "l" changed available.)



(D) Female Thread Type
(Rotation Style)



(E) Non Thread Type

T: Process connection
E: Stop plate for (rotary & rotation style)
F: Hexagonal head
l: Sensor length
d: Sensor dimension

Table For Range And Stem

Standard Scale Range (°C)	Minor Division (°C)			Minimum Stem Length (mm)			
	Ø75	Ø100	Ø125	Outer Diameter of Stem			
				Ø4	Ø6	Ø8	Ø10
-50~50	2	1	1	80	65	60	55
-30~50	1	1	1	80	65	60	55
-20~60	1	1	1	80	65	60	55
-10~50	1	0.5	0.5	95	80	75	70
-10~110	2	1	1	80	65	60	55
0~50(60)	1	0.5	0.5	105	90	85	80
0~80	1	1	1	80	65	60	55
0~100	2	1	1	80	65	60	55
0~120	2	2	2	80	65	60	55
0~150	2	2	2	80	65	60	55
0~200	5	2	2	80	65	60	55
0~250	5	2	2	95	80	75	70
0~300	5	2.5	2.5	85	70	65	60
0~400	10	2.5	2.5	-	65	60	55
0~500	10	5	5	-	65	60	55
0~600	10	5	5	-	65	60	55

OPTION.

1. Special range available upon request.
2. Special scale available upon request.
3. Special stem diameter and length available upon request.

Ordering Information

Code	Model							
	AY3, AY4, AY5	AI3, AI4, AI5	AY3-QS, AY4-QS, AY5-QS					
↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Code	Case & Cover Material						
		(1) SS304 (2) SS316						
	Code	Lens Material						
	G	Glass	S	Safety Glass				
	Code	Connection Type						
	A	Fixed Thread Type	C	Slide Thread Type	E	Non Thread Type		
	B	Rotary Thread Type	D	Female Thread Type	O	Option		
	Code	Stem Diameter						
		(1) Ø4 (2) Ø6 (3) Ø8 (4) Ø10						
	Code	Stem Length						
	Please refer to Table For Range And Stem. Fill in the requested length (mm)							
Code	Process Connection							
	(A) 1/4 "NPT (B) 3/8"NPT (C) 1/2"NPT							
	(D) 1/4"PF (E) 3/8"PF (F) 1/2"PF (O) Option							
	(O) Option							
Code	Scale Range							
	Refer to Scale Range Table. Fill in the requested range.							
								Complete Ordering Code

Ordering code example:

Model	Case & Cover Material	Lens Material	Connection Type	Stem Diameter	Stem Length	Process Connection	Scale Range
AY4-QS	1	G	A	2	100mm	B	0-100°C