



CATALOGO GENERAL

MEDIDORES DE
TEMPERATURA
Vol. 3





MEDIDORES DE TEMPERATURA

SONDA
TERMOCUPLA

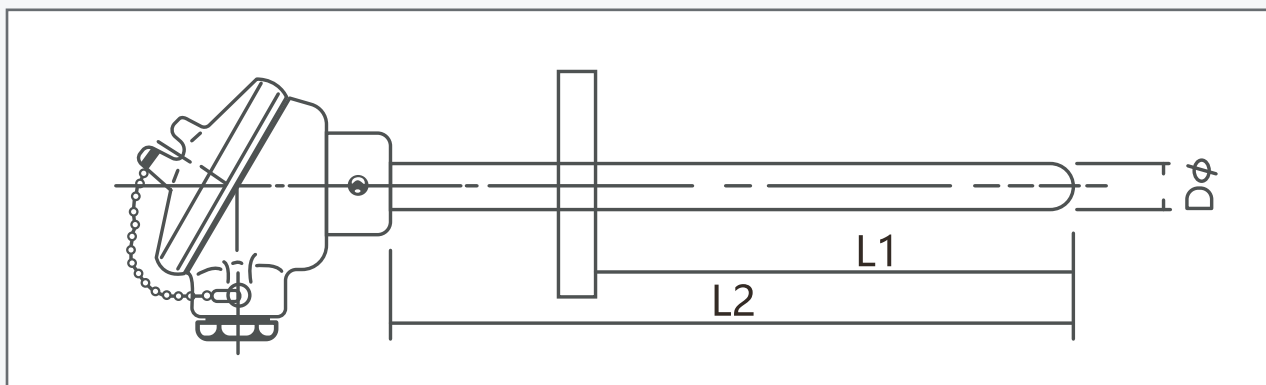
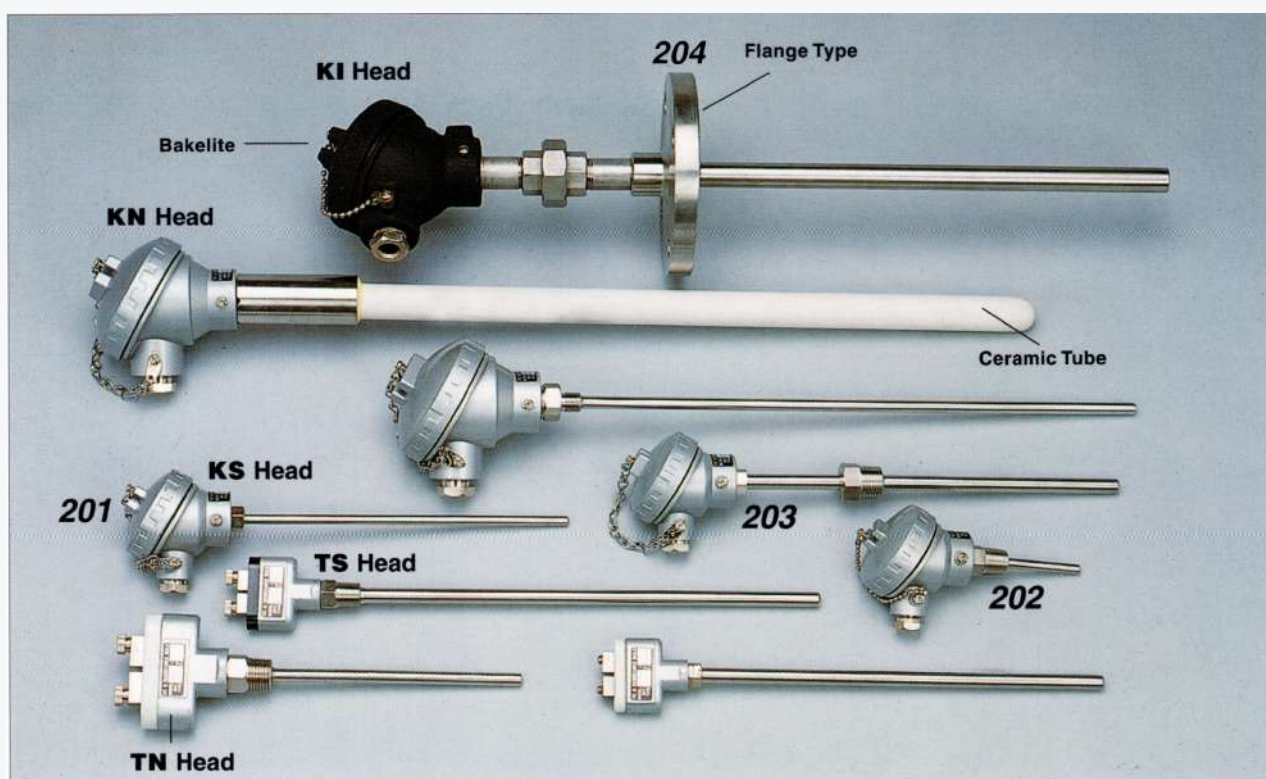
20 Terminal head type

201 General type

202 Fitting type

203 Neck extension type

204 Flange type

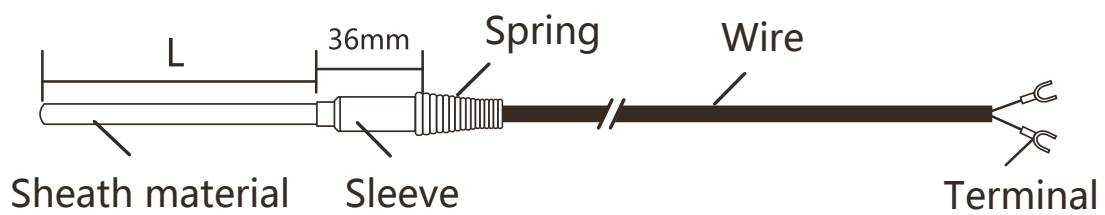


www.sj-gauge.com

30 Sheath type

301 Lead wire type

302 Socket type



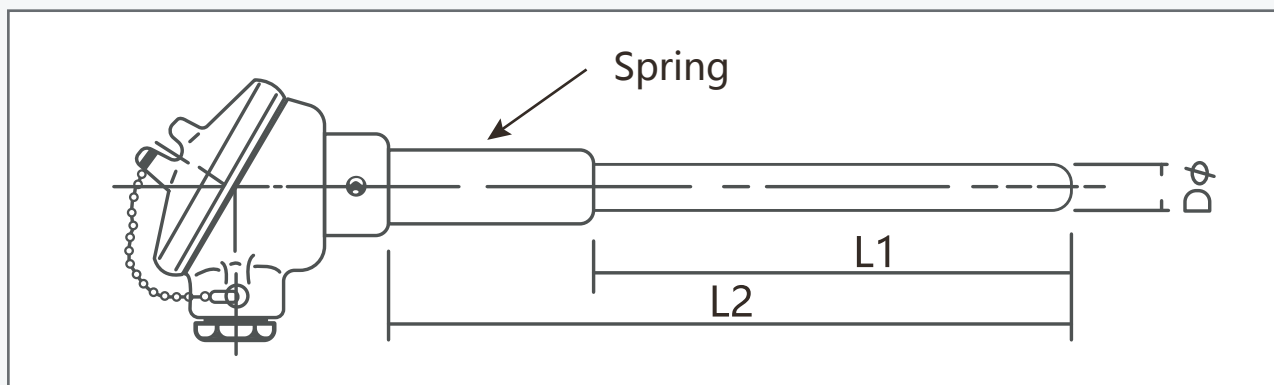
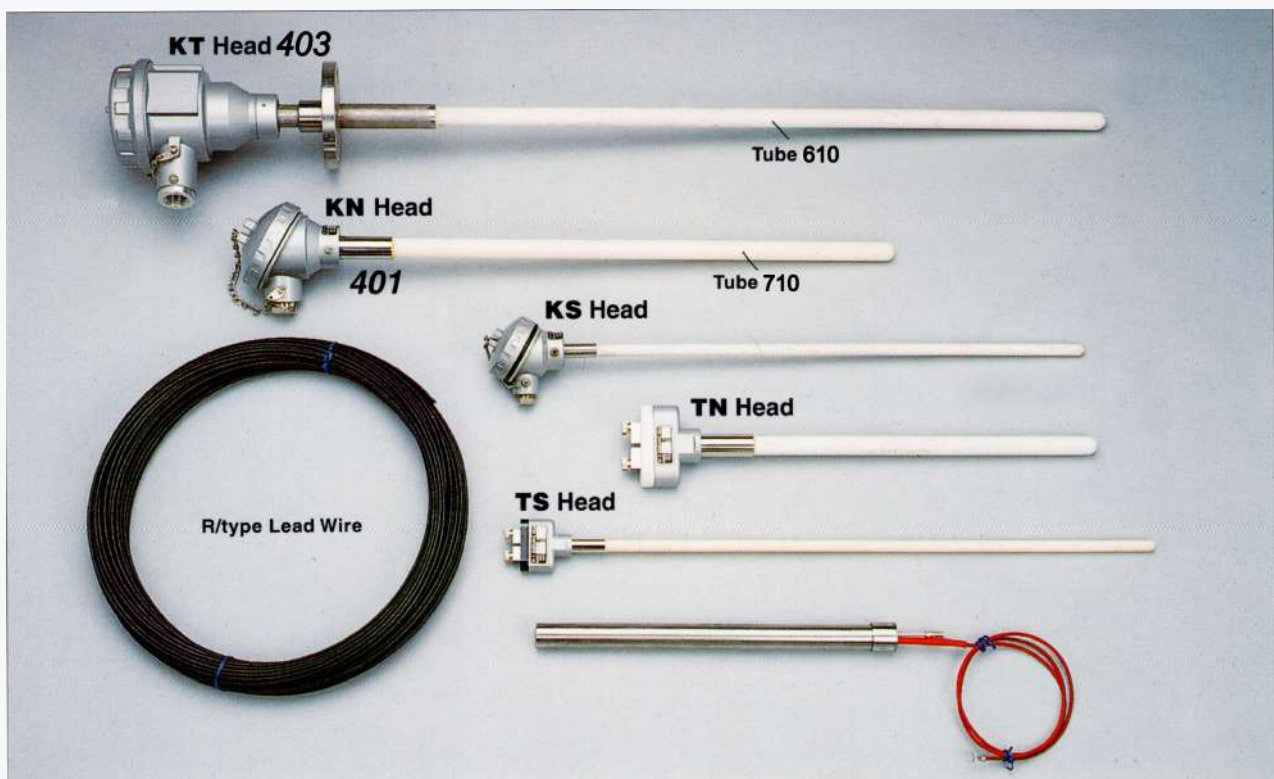
www.sj-gauge.com

40 Terminal head type

401 General type

402 Fitting type

403 Flange type



www.sj-gauge.com



MEDIDORES DE TEMPERATURA

SONDA
RTD

60 RTD Terminal head type

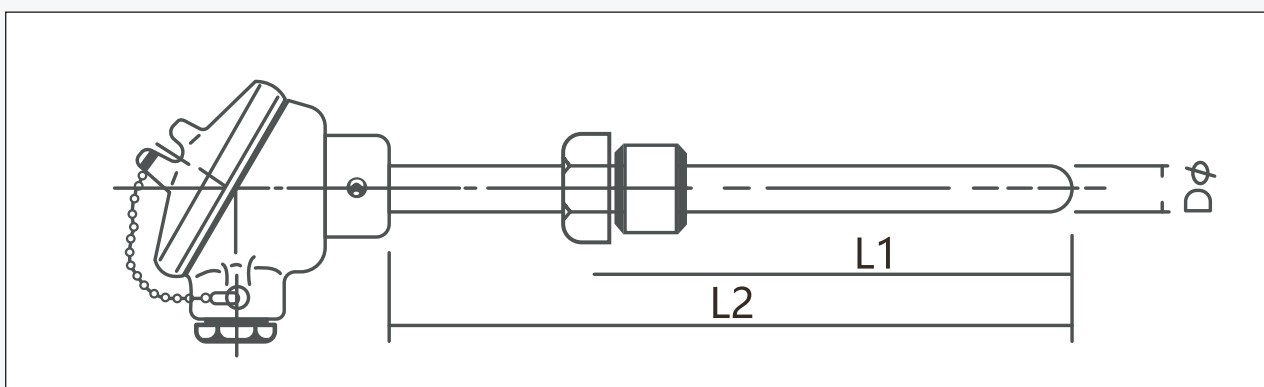
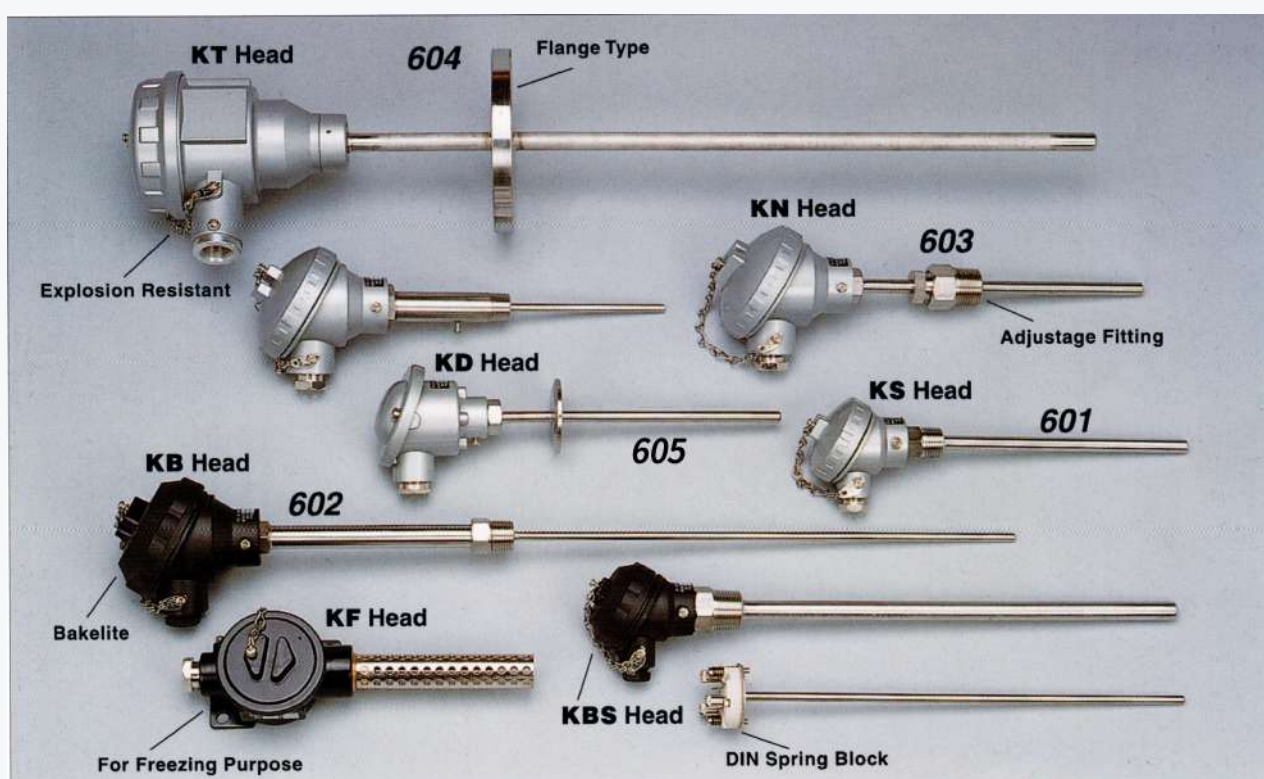
601 General type

602 Neck extension type

603 Adjustable fitting type

604 Flange type

605 Tri-clamp type



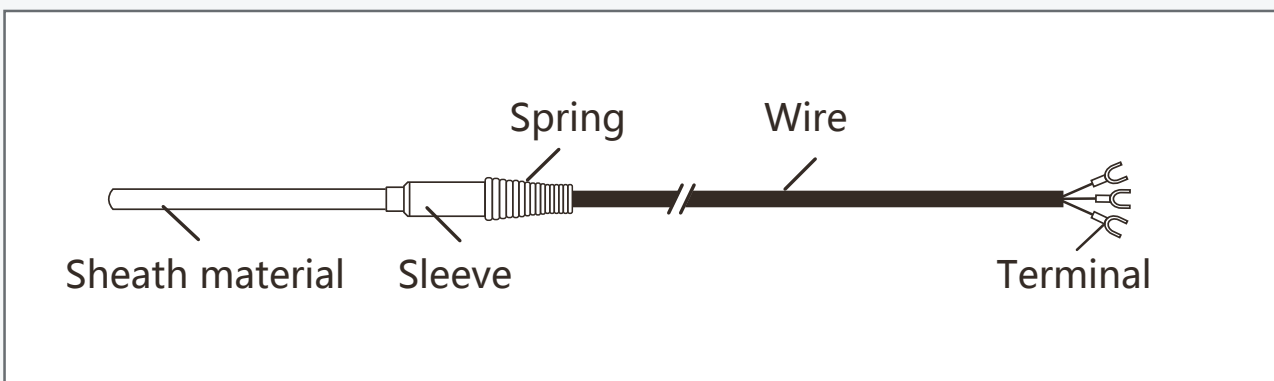
www.sj-gauge.com

50 RTD Lead wire type

501 Screw-in type

502 Inseration type

503 Bayonet type



www.sj-gauge.com

Bimetallic Thermometer

Model: MTB.S

Product Description

- Support device for monitoring and circuit switching
- Used in food and air conditioning industries, etc.



Fig. left: bottom mount (BS)

Fig. middle: back mount (BL)

Fig. right: adjustable angle (BA)

Product Specification

Connection location

Bottom mount (BS),
back mount (BL),
adjustable angle (BA)

Nominal size

1.5", 2", 2.5", 3", 4", 5", 6" (BL)
2.5", 3", 4", 5", 6" (BA)
3", 4", 5", 6" (BS)

Scale ranges

-50°C ... 600°C

Accuracy

CL 1.0

Process connection

304 SS (standard), 316 SS
1/8", 1/4", 3/8", 1/2", 3/4"
PT, G, NPT, M

Connection designs

Male thread, plain stem,
compression fitting (sliding on
stem), union nut and loose threaded
connection, male nut, union nut,
sanitary tri-clamp, metallic sheet
with dual hole, flange on stem

Product Specification

Stem

304 SS (standard), 316 SS

Length:

Above 40 mm (without thread) can
be customized

Diameter: 6, 6.35, 8, 9.5, 10, 12 mm

Case/Ring

304 SS

Window

Glass

Dial

Aluminum alloy, black scale on white

Pointer

Black aluminum alloy

Filling liquid

Without, glycerine

Accessories (options)

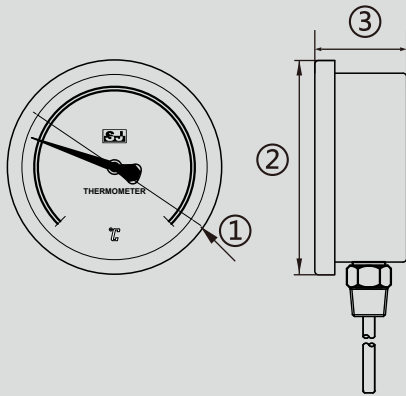
Adjustment nut, thermowell,
adjustable set pointer

Protection

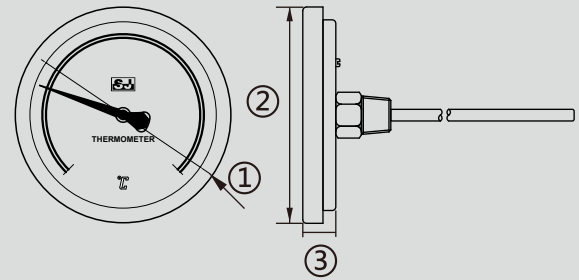
IP67

Connection Location

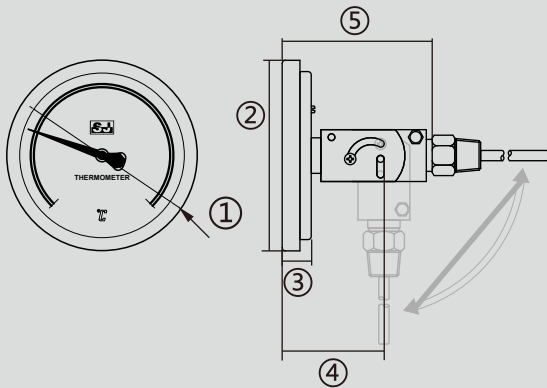
BS-Bottom mount



BL-Back mount



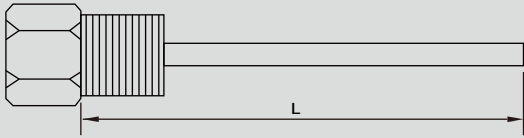
BA-Adjustable angle



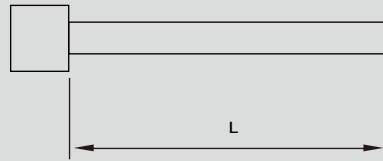
Connection location			
NS	BS	BL	BA
1.5"	-	V	-
2"	-	V	-
2.5"	-	V	V
3"	V	V	V
4"	V	V	V
5"	V	V	V
6"	V	V	V

Connection Design

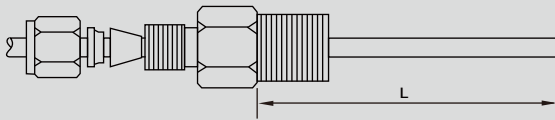
Male thread



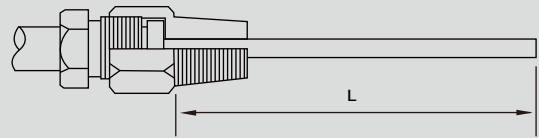
Plain stem



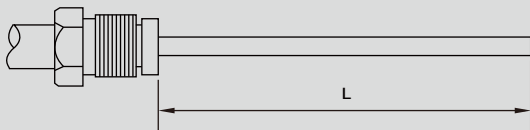
Compression fitting (sliding on stem)



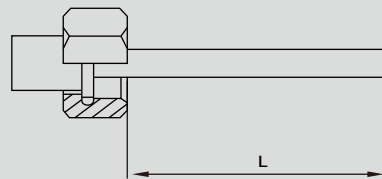
Union nut and loose threaded connection



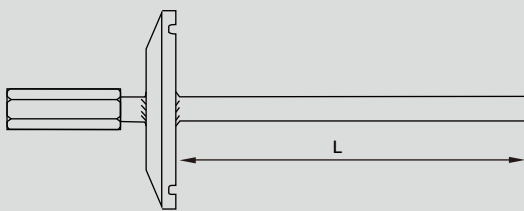
Male nut



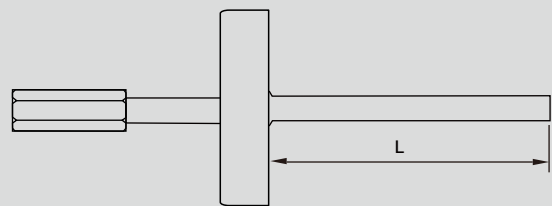
Union nut



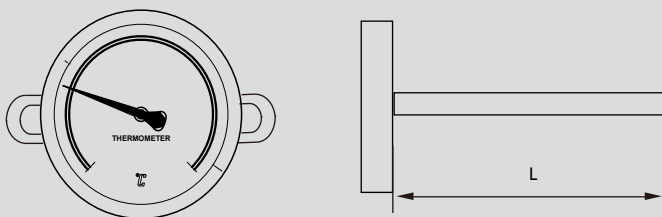
Sanitary tri-clamp



Flange on stem

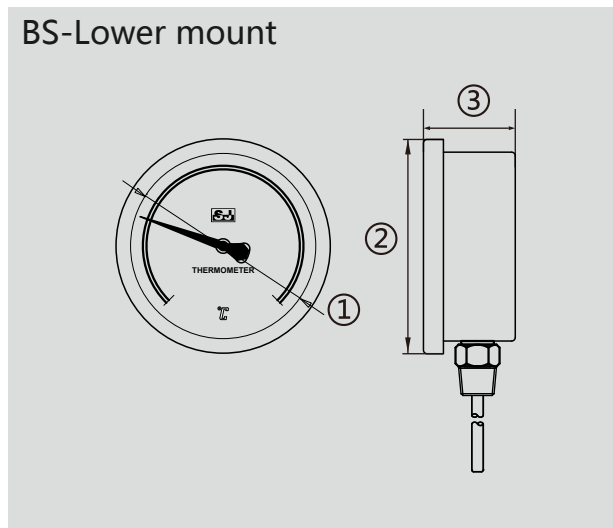


Metallic sheet with dual hole



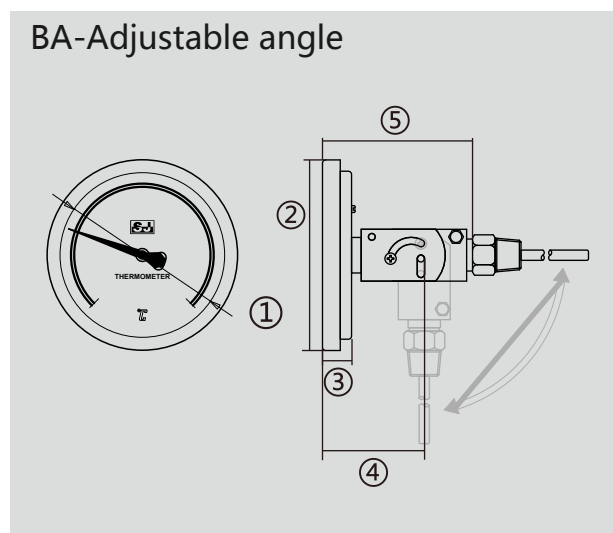
Dimensions

BS-Lower mount



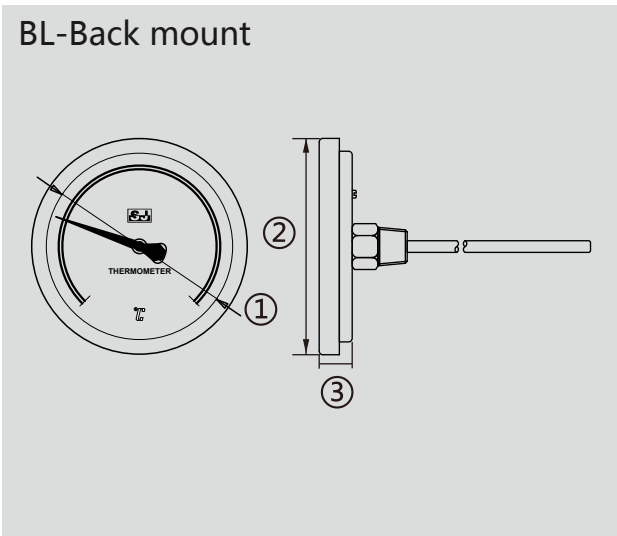
Dimensions (mm)			
NS	①	②	③
3"	70	85	47
4"	102	119	48
5"	110	127	51
6"	140	160	47

BA-Adjustable angle



Dimensions (mm)					
NS	①	②	③	④	⑤
2.5"	57	66	15	55	91
3"	72	84	17	57	93
4"	101	119	18	58	94
5"	114	130	18	58	94
6"	140	160	18	58	94

Dimensions



Dimensions (mm)			
NS	①	②	③
1.5"	34	45	16
2"	49	58	14
2.5"	57	66	15
3"	72	84	17
4"	101	119	18
5"	114	130	18
6"	140	160	18

Bimetallic thermometer (customized)

Model : MTB

Product Description

- Multiple accessories and sizes can be selected
- Select from multiple connection locations
- Available for the dyeing, drying, and food industries as well as steam boilers, air conditioning equipment, etc.



Fig. left: bottom mount (BS)
Fig. middle: back mount (BL)
Fig. right: adjustable angle (BA)

Product Specification

Connection location

Bottom mount (BS),
back mount (BL),
adjustable angle (BA)

Nominal size

2.5", 3", 4", 5", 6" (BS)
1", 1.5", 1.6", 2", 2.5", 3", 4",
5", 6" (BL)
2", 2.5", 3", 4", 5", 6" (BA)

Scale ranges

-50°C ... 600°C

Accuracy

CL 1.0

Process connection

304 SS
1/8", 1/4", 3/8", 1/2", 3/4", 1"
PT, G, NPT, M

Connection designs

Male thread, plain stem,
compression fitting (sliding on
stem), union nut and loose threaded
connection, male nut, union nut,
sanitary tri-clamp, metallic sheet
with dual hole, flange on stem

Product Specification

Stem

304 SS (standard), 316 SS

Length:

Above 50 mm (without thread) can
be customized

Diameter: 4, 6, 6.3, 8, 9.5, 12 mm

Case/Ring

304 SS

Window

Glass

Dial

Aluminum alloy, black scale on white

Pointer

Black aluminum alloy

Filling liquid

Without, glycerine

Accessories (options)

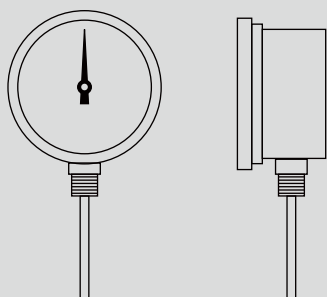
Adjustment nut, thermowell,
adjustable set pointer

Protection

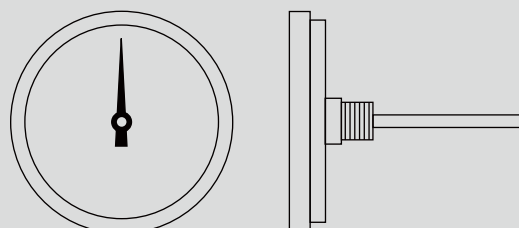
IP 67

Connection Location

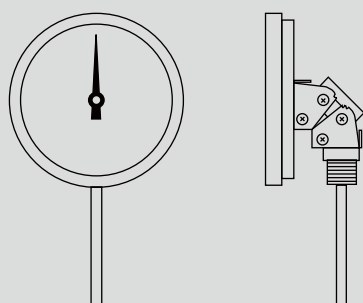
BS-Bottom mount



BL-Back mount



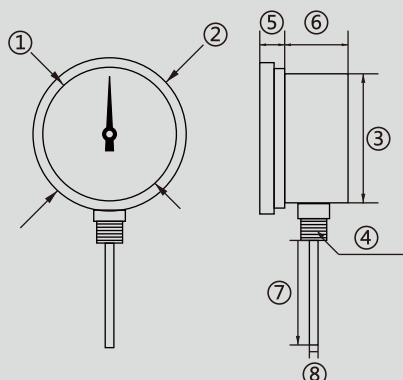
BA-Adjustable angle



Connection location			
NS	BS	BL	BA
1"	-	V	-
1.5"	-	V	-
1.6"	-	V	-
2"	-	V	V
2.5"	V	V	V
3"	V	V	V
4"	V	V	V
5"	V	V	V
6"	V	V	V

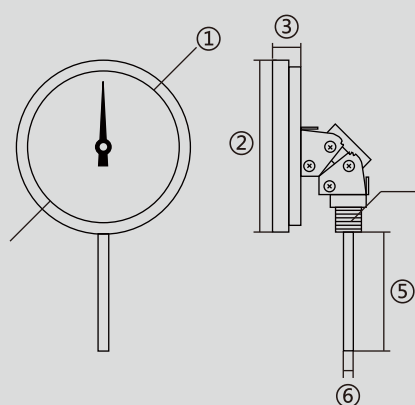
Dimensions

BS-Bottom mount



Dimensions (mm)								
NS	①	②	③	④	⑤	⑥	⑦	⑧
2.5"	56	69	63	1/4"	14	35	150	6.3
3"	70	84	75	1/4"	12	47	150	6.3
4"	98	115	101	1/4"	17	52	150	6.3
5"	113.5	130	117	1/2"	13.5	51	150	6.3
6"	140	260	148	1/2"	17	48	150	6.3

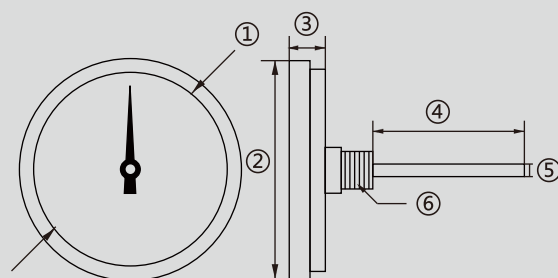
BA-Adjustable angle



Dimensions (mm)						
NS	①	②	③	④	⑤	⑥
2"	44	51	11	1/4"	150	6.3
2.5"	55	65	18	1/4"	150	6.3
3"	70	80	17.5	1/4"	150	6.3
4"	101	118	21	1/4"	150	6.3
5"	113.5	130	21	1/2"	150	6.3
6"	240	160	25	1/2"	150	6.3

Dimensions

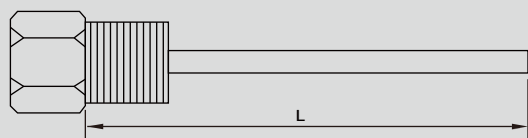
BL-Back mount



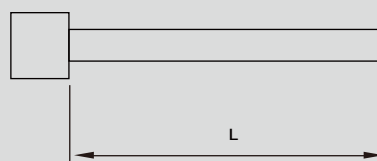
Dimensions (mm)						
NS	①	②	③	④	⑤	⑥
1"	22	26	9	150	4	1/8"
1.5"	26.5	35	11.5	150	4	1/8"
1.6"	32	40	12	150	4	1/8"
2"	44	51	11	150	6.3	1/4"
2.5"	55	65	18	150	6.3	1/4"
3"	70	80	20	250	6.3	1/4"
4"	101	118	21	150	6.3	1/2"
5"	113.5	130	21	150	6.3	1/2"
6"	140	160	25	150	6.3	1/2"

Connection Design

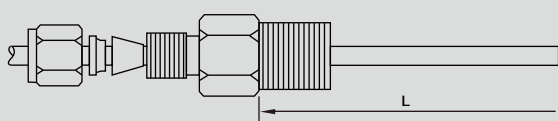
Male thread



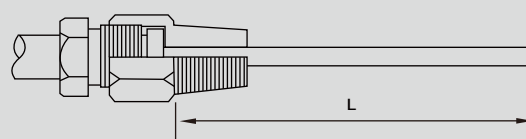
Plain stem



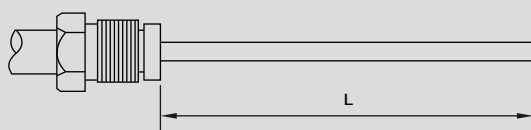
Compression fitting (sliding on stem)



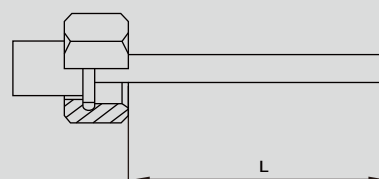
Union nut and loose threaded connection



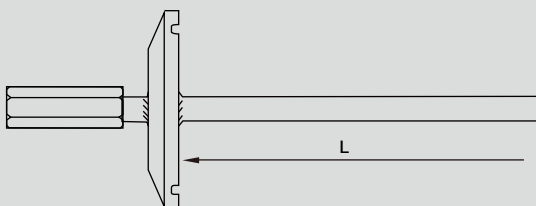
Male nut



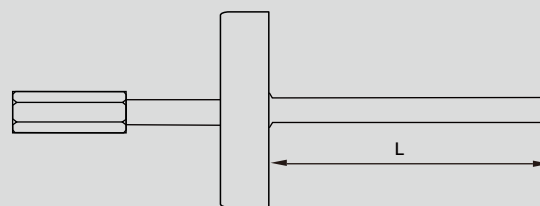
Union nut



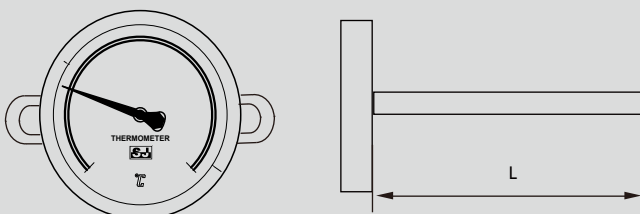
Sanitary tri-clamp



Flange on stem



Metallic sheet with dual hole



Surface Magnet Thermometer

Model: MTM

Product Description

- Magnet thermometers are simple to operate and can be directly measure to the temperature
- Suitable for measuring the temperature of magnetic metal surfaces
- Used in mold, plastic injection and other industrial applications

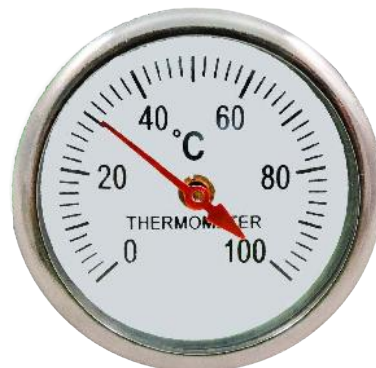


Fig. above: General
Fig. below: With spring

Product Specification

Nominal size

1.5", 2.5"

Scale ranges

1.5": 0°C ... 100°C, 0°C ... 120°C, 0°C ... 200°C

2.5": 0°C ... 200°C, 0°C ... 300°C

Accessories (options)

With spring, add powerful magnet on the back



Options

With spring



Options

Add powerful magnet on the back



MEDIDORES DE TEMPERATURA

TERMOMETRO
DE EXPANSIÓN



SJ MTE

TERMÓMETRO
DE CONTACTO CON
INTERRUPTORES
DE EXPANSIÓN



Product Description

- Support device for monitoring and circuit switching
- Magnetic snap-action contact available for automated control
- Usually used in the food industry



Product Specification

Connection location

Bottom mount (BS),
back mount (BL)

Nominal size

3", 4", 5", 6"

Scale ranges

-50°C ... 600°C

Accuracy

CL 1.0

Process connection

304 SS (standard), 316 SS
1/4", 3/8", 1/2", 3/4", 1"
PT, G, NPT, M

Connection designs

Male thread, plain stem,
compression fitting (sliding on stem),
union nut and loose threaded connection,
union nut, sanitary tri-clamp, flange on
stem

Stem

304 SS (standard), 316 SS

Length:

Above 50 mm (without thread) can be
customized

Diameter: 6.35, 8, 9.5, 12 mm

Case/Ring

304 SS

Product Specification

Window

PC

Dial

Aluminum alloy, black scale on white

Pointer

Black aluminum alloy

Accessories (options)

Adjustment nut, thermowell,
adjustable set pointer

Ambient temperature

-20°C ... 70°C

Contact

Silver nickel alloy

type:

Single contact N.O.

Single contact N.C.

Double contacts N.O.x2

Double contacts N.O.+N.C.

Double contacts N.C.x2

Electrical contact specification

Maximum voltage: 250V (MAX.)

Maximum load: 30W~50VA (MAX.)

Starting current: 1.0 A (Max.)

Continuous load: 0.6A (MAX.)

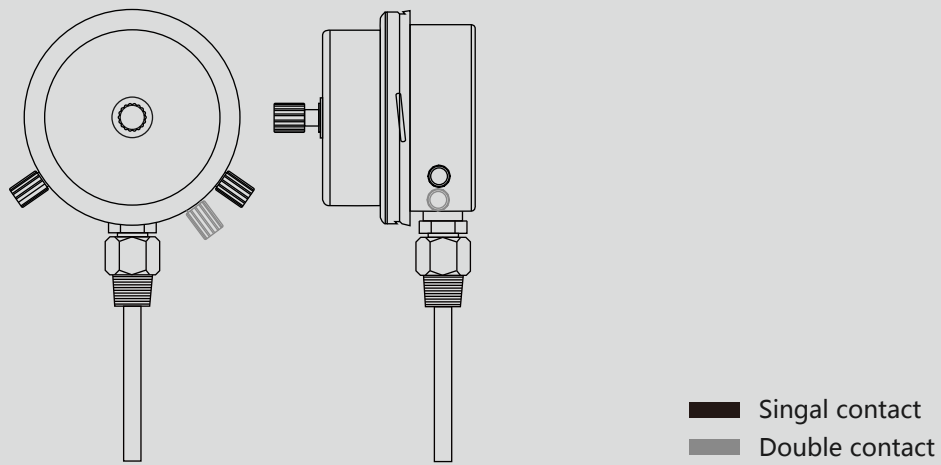
Switching voltage: 24V (Min.)

Protection

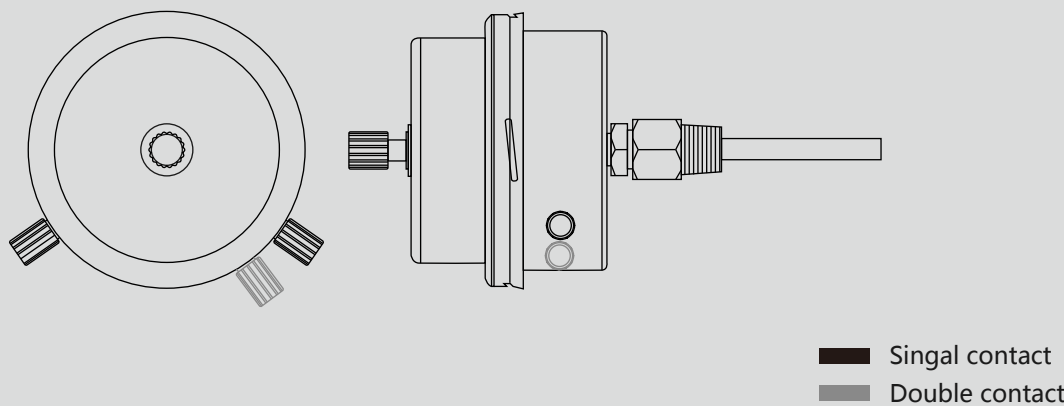
IP 67

Connection Location

BS - Bottom mount



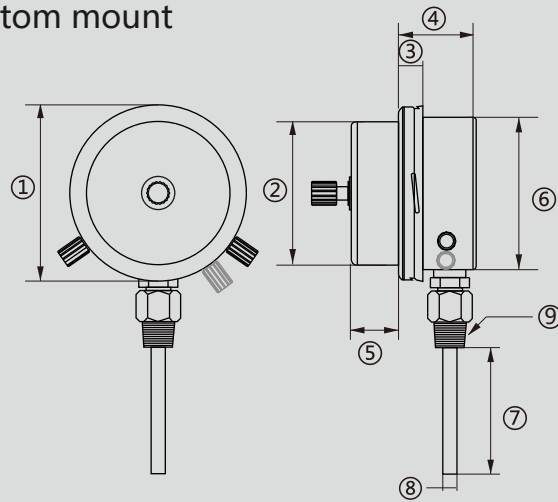
BL-Back mount



Connection location		
NS	BS	BL
3"	V	V
4"	V	V
5"	V	V
6"	V	V

Dimensions

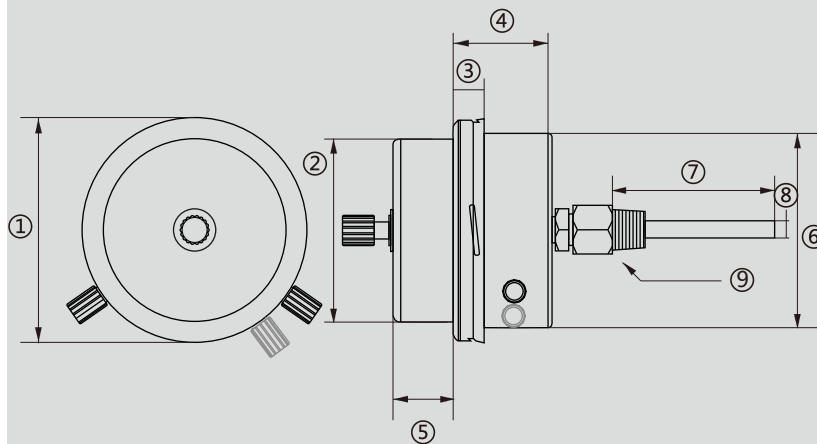
BS-Bottom mount



Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦	⑧	⑨
3"	84	79	12	47	30	75	150	6.3	1/4"
4"	115	95	17	52	30	101	150	6.3	1/2"
5"	130	110	13.5	51	30	117	150	6.3	1/2"
6"	160	130	17	48	35	148	150	6.3	1/2"

BL-Back mount

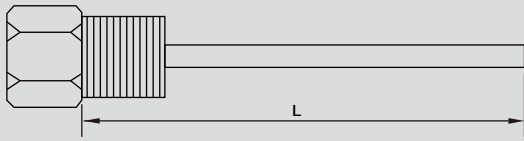


Dimensions (mm)

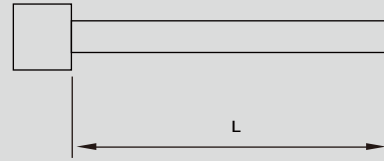
NS	①	②	③	④	⑤	⑥	⑦	⑧	⑨
3"	84	79	12	47	30	75	150	6.3	1/4"
4"	115	95	17	52	30	101	150	6.3	1/2"
5"	130	110	13.5	51	30	117	150	6.3	1/2"
6"	160	130	17	48	35	148	150	6.3	1/2"

Connection Design

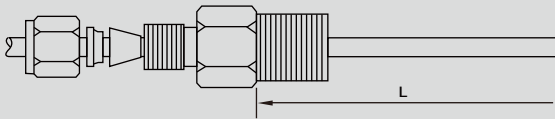
Male thread



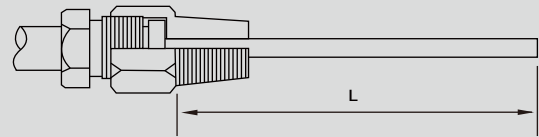
Plain stem



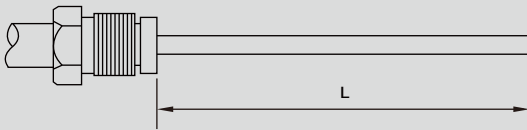
Compression fitting (sliding on stem)



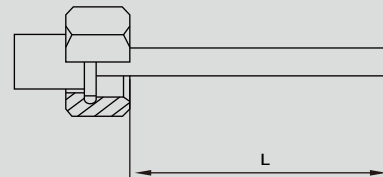
Union nut and loose threaded connection



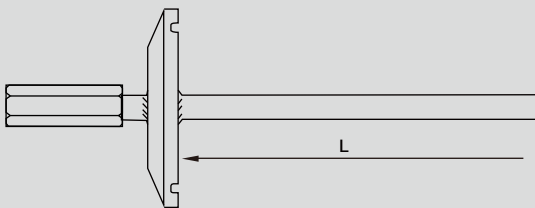
Male nut



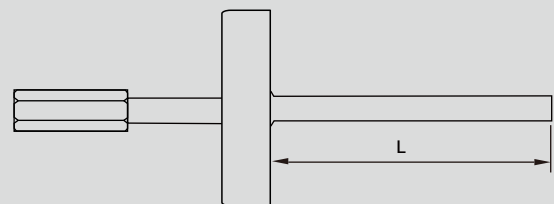
Union nut



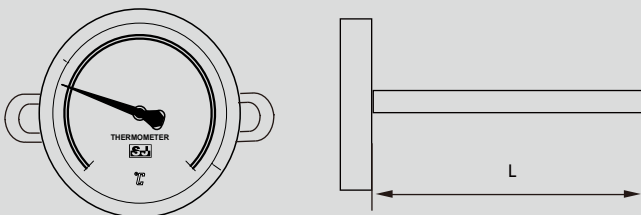
Sanitary tri-clamp



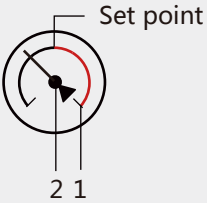
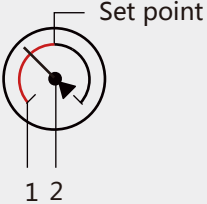
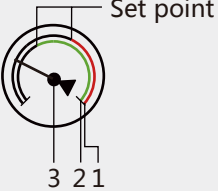
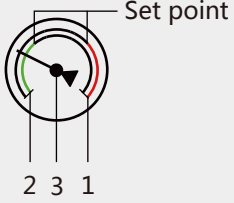
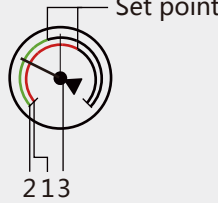
Flange on stem



Metallic sheet with dual hole



Contact type

Single contact	
 Set point 2 1	2R Single contact N.O. S1 contact makes when the pointer reaches the set point.
 Set point 1 2	2G Single contact N.C. S1 contact breaks when the pointer reaches the set point.
Double contacts	
 Set point 3 2 1	3RR Double contacts N.O. S1 and S2 contact make when the pointer reaches the set point.
 Set point 2 3 1	3RG Double contacts N.O. + N.C. S1 contact makes and S2 contact breaks when the pointer reaches the set point.
 Set point 2 1 3	3GG Double contacts N.C. S1 and S2 contact break when the pointer reaches the set point.

* Note: special contact type can be customized.



※ Ordering information

Model / Connection location / Nominal size / Scale range / Process connection /
Connection design / Stem / Accessories / Contact type / Options

For any changes to the specifications of this catalogue, the latest version shall prevail.

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**SJ MTG /
MTG-E**

**TERMÓMETRO
ACTIVADO
POR
GAS**



Gas-actuated Thermometer: with/without Electrical Contact

Model : MTG/MTG-E

Product Description

- Fast measuring reaction
- Measuring range can be adjusted up to 600°C
- Used in chemical and petrochemical industries, etc.



Fig. left: MTG-E (with electrical contacts)
Fig. right: MTG

Product Specification

Connection location

Bottom mount, back mount,
adjustable angle

Nominal size

MTG: 2.5", 3", 4", 5", 6"

MTG-E: 3", 4", 6"

Scale ranges

-50°C ... 600°C

Accuracy

CL 1.0

Process connection

304 SS

1/4", 3/8", 1/2", 3/4"

PT, G, NPT, M

Connection designs

Male thread, plain stem,
compression fitting (sliding on
stem), union nut and loose threaded
connection, male nut, union nut,
sanitary tri-clamp, flange on stem

Stem

304 SS (standard), 316 SS

Length:

Above 50 mm (without thread) can
be customized

Diameter: 6.35, 8, 9.5, 10, 12 mm

Case/Ring

304 SS

Product Specification

Window

Glass (MTG), acrylic (MTG-E)

Dial

Aluminum alloy, black scale on white

Pointer

Black aluminum alloy

Accessories (options)

Thermowell

Protection level

IP 67

Contact

Type:

Single contact N.O.

Single contact N.C.

Double contacts N.O.

Double contacts N.O. + N.C.

Double contacts N.C.

Electrical contact specifications

Rated voltage: 250 V (Max.)

Contact capacity: 30 W ~ 50 VA (Max.)

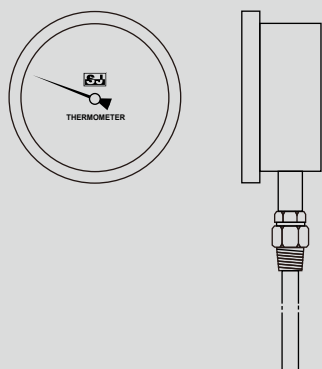
Starting current: 1.0 A (Max.)

Breaking current: 1.0 A (Max.)

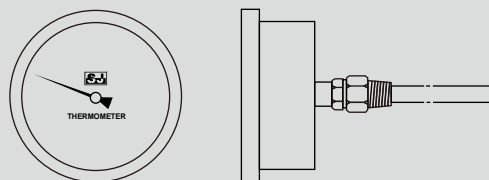
Persistent current: 0.6 A (Max.)

Connection Location

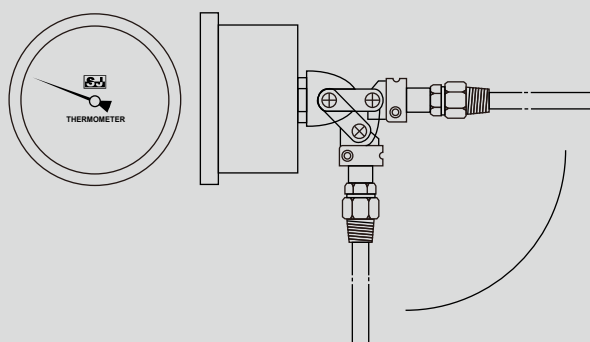
BS-Bottom mount



BL-Back mount



BA-Adjustable angle

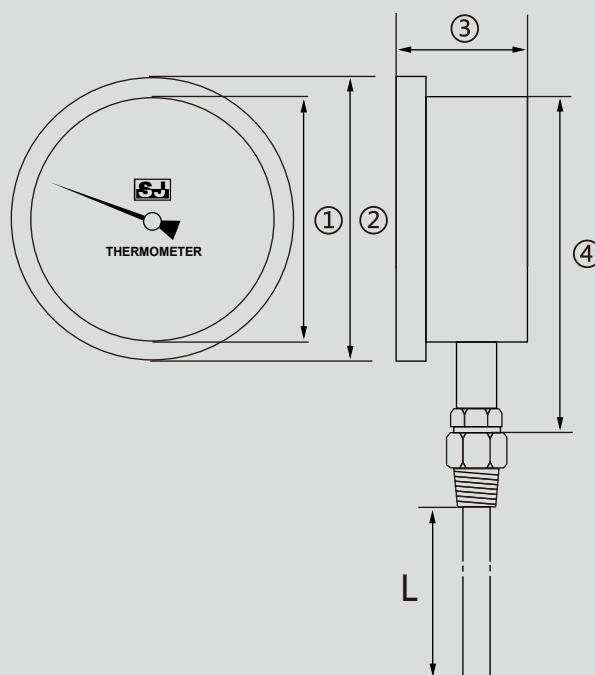


Connection location			
NS	BS	BL	BA
2.5"	V	V	V
*3"	V	V	V
*4"	V	V	V
5"	V	V	V
*6"	V	V	V

* Note: only 3", 4", 6" can be mounted with electrical contacts (MTG-E).

Dimensions

BS-Bottom mount



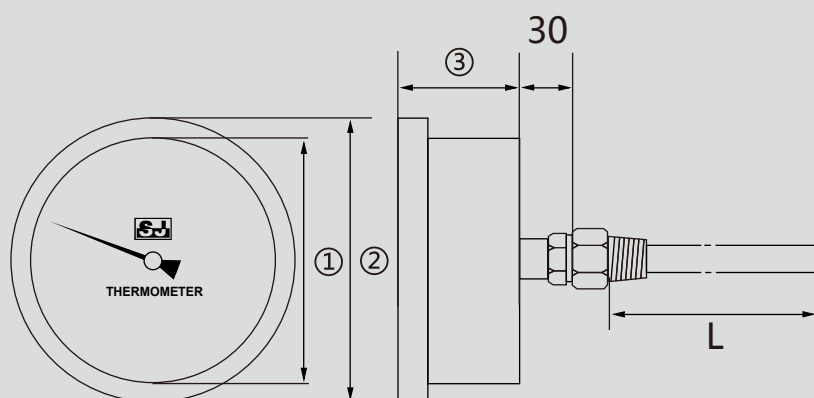
Dimensions (mm)				
NS	①	②	③	④
2.5"	55	64	40	90
3"	70	85	47	106
4"	102	119	48 ^{*1}	138
5"	110	127	51	147
6"	140	160	47 ^{*2}	178

* Note:

1. If 4" mounted with electrical contacts, the case height (③) is 80 mm.
2. If 6" mounted with electrical contacts, the case height (③) is 26 mm (single contact)/40 mm (double contacts)

Dimensions

BL-Back mount



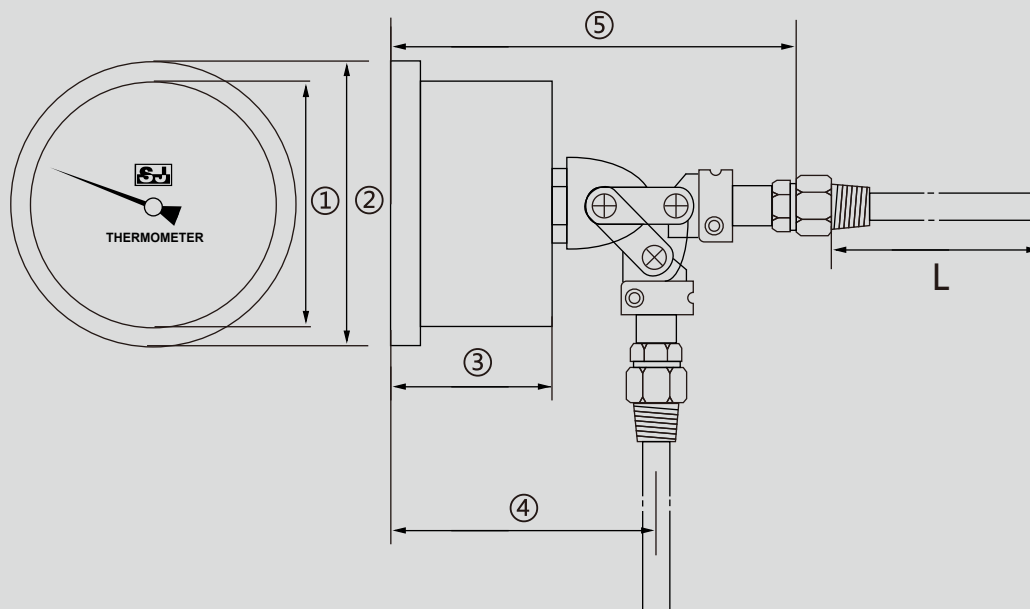
Dimensions (mm)			
NS	①	②	③
2.5"	55	64	40
3"	70	85	47
4"	102	119	48 ^{*1}
5"	110	127	51
6"	140	160	47 ^{*2}

* Note:

1. If 4" mounted with electrical contacts, the case height (③) is 80 mm.
2. If 6" mounted with electrical contacts, the case height (③) is 26 mm (single contact)/40 mm (double contacts)

Dimensions

BA-Adjustable angle



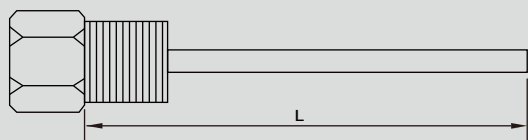
Dimensions (mm)					
NS	①	②	③	④	⑤
2.5"	55	64	40	80	146
3"	70	85	47	87	153
4"	102	119	48 ^{*1}	88	154
5"	110	127	51	91	157
6"	140	160	47 ^{*2}	87	153

* Note:

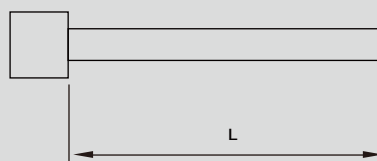
1. If 4" mounted with electrical contacts, the case height (③) is 80 mm.
2. If 6" mounted with electrical contacts, the case height (③) is 26 mm (single contact)/40 mm (double contacts)

Connection Design

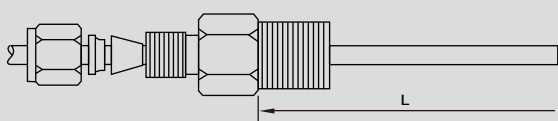
Male thread



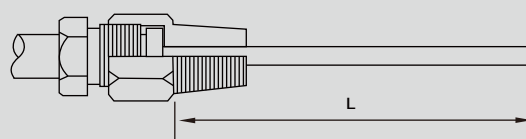
Plain stem



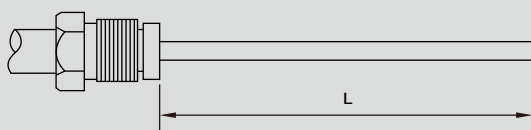
Compression fitting (sliding on stem)



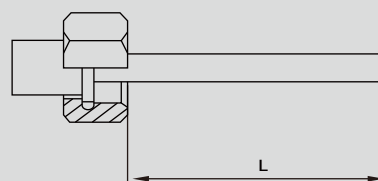
Union nut and loose threaded connection



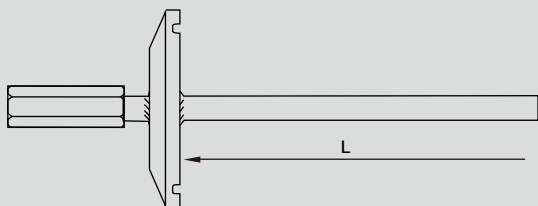
Male nut



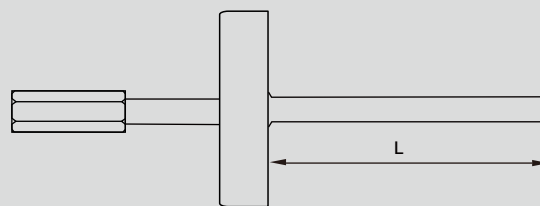
Union nut



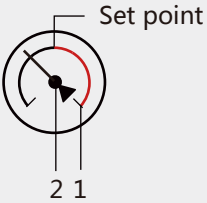
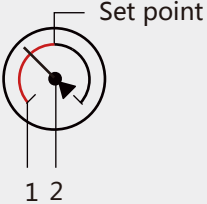
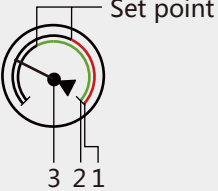
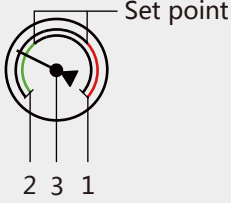
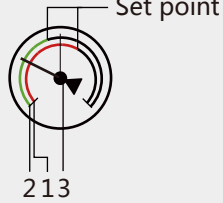
Sanitary tri-clamp



Flange on stem



Contact type

Single contact	
 Set point 2 1	2R Single contact N.O. S1 contact makes when the pointer reaches the set point.
 Set point 1 2	2G Single contact N.C. S1 contact breaks when the pointer reaches the set point.
Double contacts	
 Set point 3 2 1	3RR Double contacts N.O. S1 and S2 contact make when the pointer reaches the set point.
 Set point 2 3 1	3RG Double contacts N.O. + N.C. S1 contact makes and S2 contact breaks when the pointer reaches the set point.
 Set point 2 1 3	3GG Double contacts N.C. S1 and S2 contact break when the pointer reaches the set point.

* Note: special contact type can be customized.



Product Description

- Capillary length can be adjusted on demand for remote observation
- Made of stainless steel, measures temperatures up to 600°C
- 3", 4", 6" can mounted with electrical contacts to measure the temperature devices



Fig. above: MTR.S
Fig. below: MTR.S-E (with electrical contacts)

Product Specification

Connection location

Lower mount with surface mounting flange, 6" lower mount with surface mounting bracket (3 holes), back mount, back mount with U-clamp

Nominal size

MTR.S: 2.5", 3", 4", 5", 6"

MTR.S-E: 3", 4", 6"

Scale ranges

-50°C ... 600°C

Accuracy

CL 1.0

Process connection

304 SS

1/4", 3/8", 1/2", 3/4"; PT, G, NPT, M

Connection designs

Male thread, plain stem, compression fitting (sliding on stem), union nut and loose threaded connection, male nut, union nut, sanitary tri-clamp, flange on stem

Stem

304 SS (standard), 316 SS

Length: above 50 mm (without thread) can be customized

Diameter: 6.35, 8, 9.5, 10, 12 mm

Product Specification

Capillary length

3 M ... 20 M

Case/Ring

304 SS

Window

Glass (MTR.S), acrylic (MTR.S-E)

Dial

Aluminum alloy, black scale on white

Pointer

Black aluminum alloy

Filling liquid

Without, glycerine (MTR.S)

Ambient temperature

-20°C ... 70°C

Protection level

IP 67

Contact

Type:

Single contact N.O.

Single contact N.C.

Double contacts N.O.

Double contacts N.O. + N.C.

Double contacts N.C.

Electrical contact specifications

Rated voltage: 250 V (Max.)

Contact capacity: 30 W ~ 50 VA (Max.)

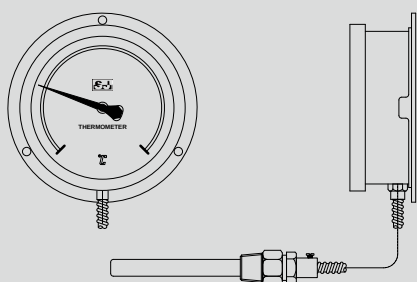
Starting current: 1.0 A (Max.)

Breaking current: 1.0 A (Max.)

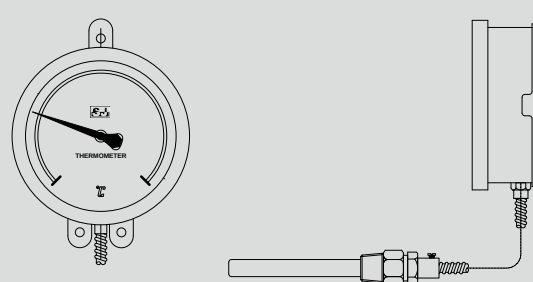
Persistent current: 0.6 A (Max.)

Connection Location

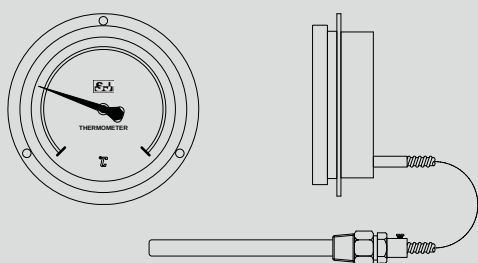
MW Lower mount with surface mounting flange



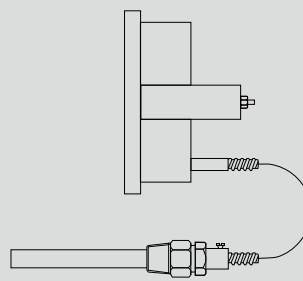
MW-6C 6" lower mount with surface mounting bracket (3 holes)



MF Back mount



MF-U Back mount with U-clamp

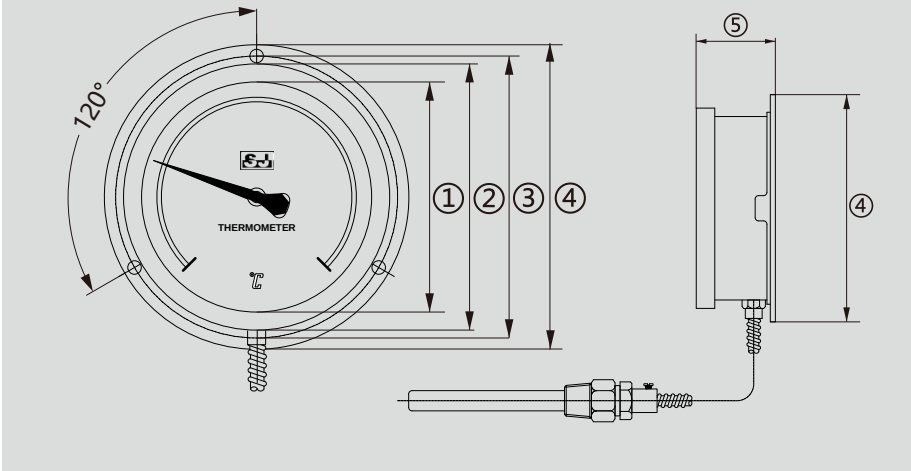


Connection location				
NS	MW	MW-6C	MF	MF-U
2.5"	V	-	V	V
3"	V	-	V	V
* 4"	V	-	V	V
5"	V	-	V	V
* 6"	V	V	V	V

* Note: only 3", 4", 6" can be mounted with electrical contacts (MTR.S-E).

Dimensions

MW Lower mount with surface mounting flange



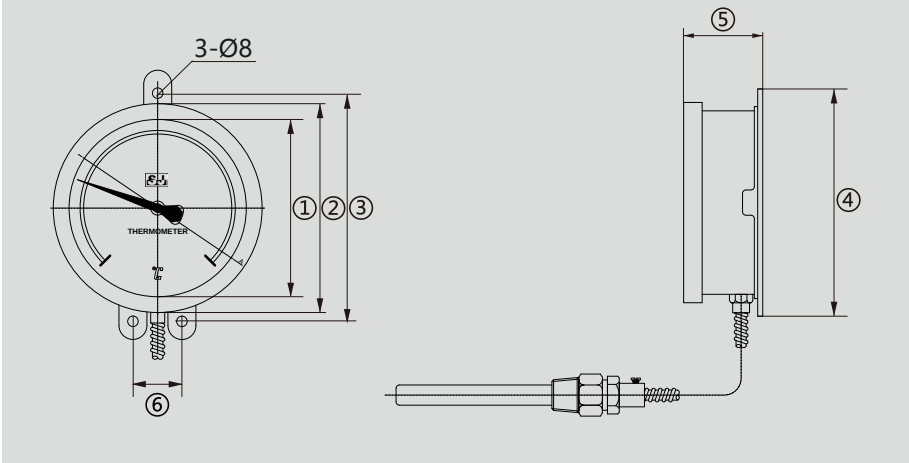
Dimensions (mm)					
NS	①	②	③	④	⑤
2.5"	55	64	75	88	40
3"	70	85	91	102	47
4"	102	119	123	137	48 ^{*1}
5"	110	127	131	145	51
6"	140	160	176	191	47 ^{*2}

* Note:

1. If 4" mounted with electrical contacts, the case height (⑤) is 80 mm.
2. If 6" mounted with electrical contacts, the case height (⑤) is 26 mm (single contact)/40 mm (double contacts)

Dimensions

MW-6C 6" lower mount with surface mounting bracket (3 holes)

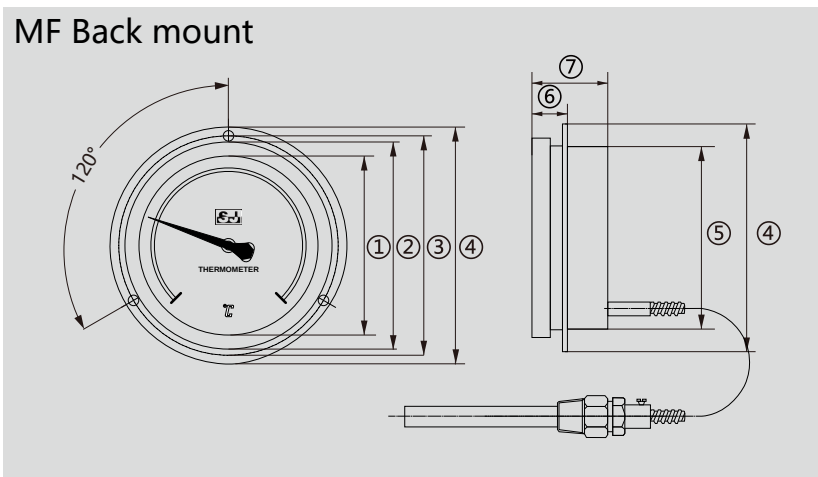


Dimensions (mm)						
NS	①	②	③	④	⑤	⑥
6"	140	160	187	210	47*	51

* Note:

If 6" mounted with electrical contacts, the case height (⑤) is 26 mm (single contact)/40 mm (double contacts)

Dimensions



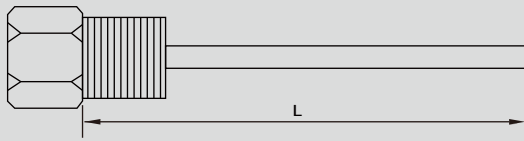
Dimensions (mm)							
NS	①	②	③	④	⑤	⑥	⑦
2.5"	55	64	75	88	63	16	40
3"	70	85	91	102	76	16	47
4"	102	119	123	137	108	22	48 ^{*1}
5"	110	127	131	145	117	18	51
6"	140	160	176	191	148	18	47 ^{*2}

* Note:

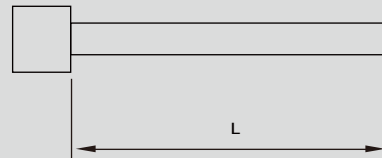
1. If 4" mounted with electrical contacts, the case height (⑦) is 80 mm.
2. If 6" mounted with electrical contacts, the case height (⑦) is 26 mm (single contact)/40 mm (double contacts)

Connection designs

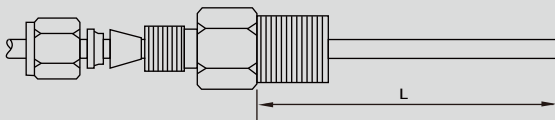
Male thread



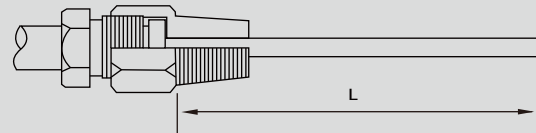
Plain stem



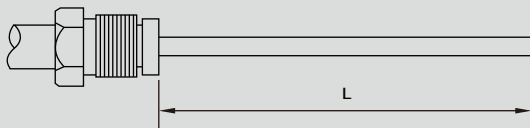
Compression fitting (sliding on stem)



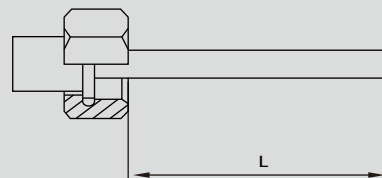
Union nut and loose threaded connection



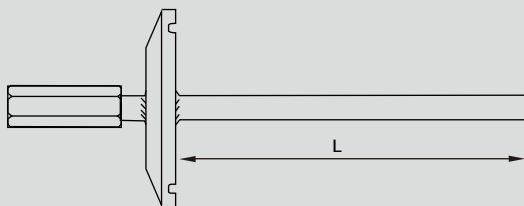
Male nut



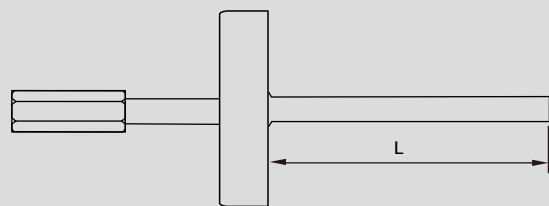
Union nut



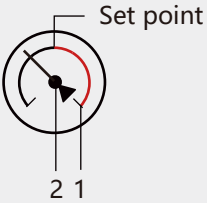
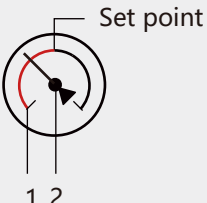
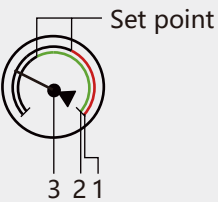
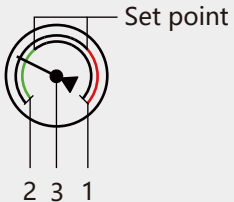
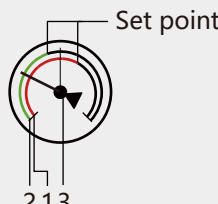
Sanitary tri-clamp



Flange on stem



Contact type

Single contact	
	2R Single contact N.O. S1 contact makes when the pointer reaches the set point.
	2G Single contact N.C. S1 contact breaks when the pointer reaches the set point.
Double contacts	
	3RR Double contacts N.O. S1 and S2 contact make when the pointer reaches the set point.
	3RG Double contacts N.O. + N.C. S1 contact makes and S2 contact breaks when the pointer reaches the set point.
	3GG Double contacts N.C. S1 and S2 contact break when the pointer reaches the set point.

* Note: special contact type can be customized.





MEDIDORES DE TEMPERATURA

TERMOPOZOS PARA
TERMOMETRO

Product Description

- One-piece bar stock made from stainless steel
- Suitable for high process and high chemical loads



Product Specification

Type

Straight, tapered, stepped

Process connection

Male, female

1/4", 3/8", 1/2", 3/4"

PT, G, NPT, M

Material

304 SS (standard), 316 SS

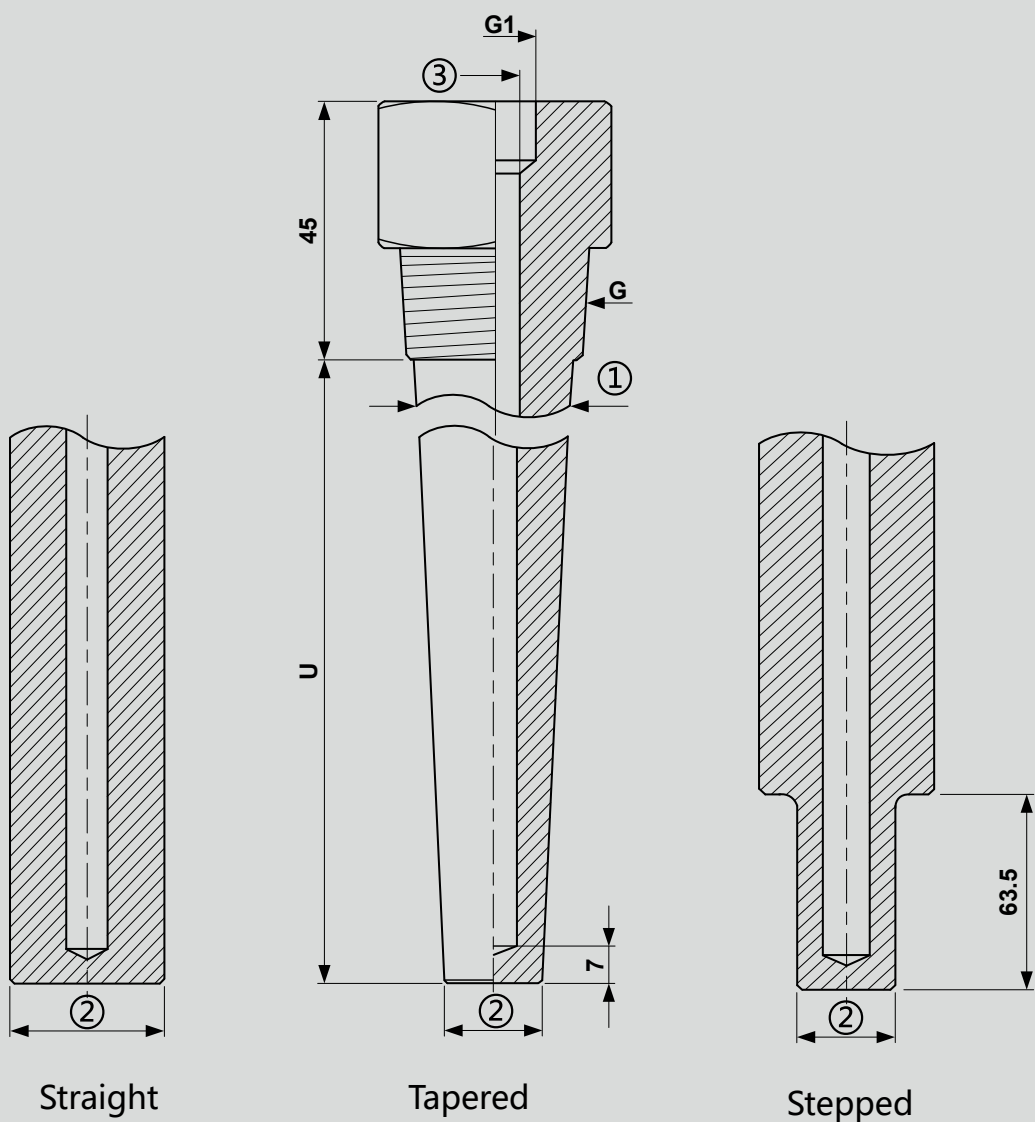
Length

Can be customized

Diameter

Can be customized

Dimensions



Threaded thermowell

Model: TWC

Product Description

- Enables the thermometer to be exchanged during operation
- Protects the thermometer and extends the service life



Product Specification

Process connection

Male, female

1/4", 3/8", 1/2", 3/4"

PT, G, NPT, M

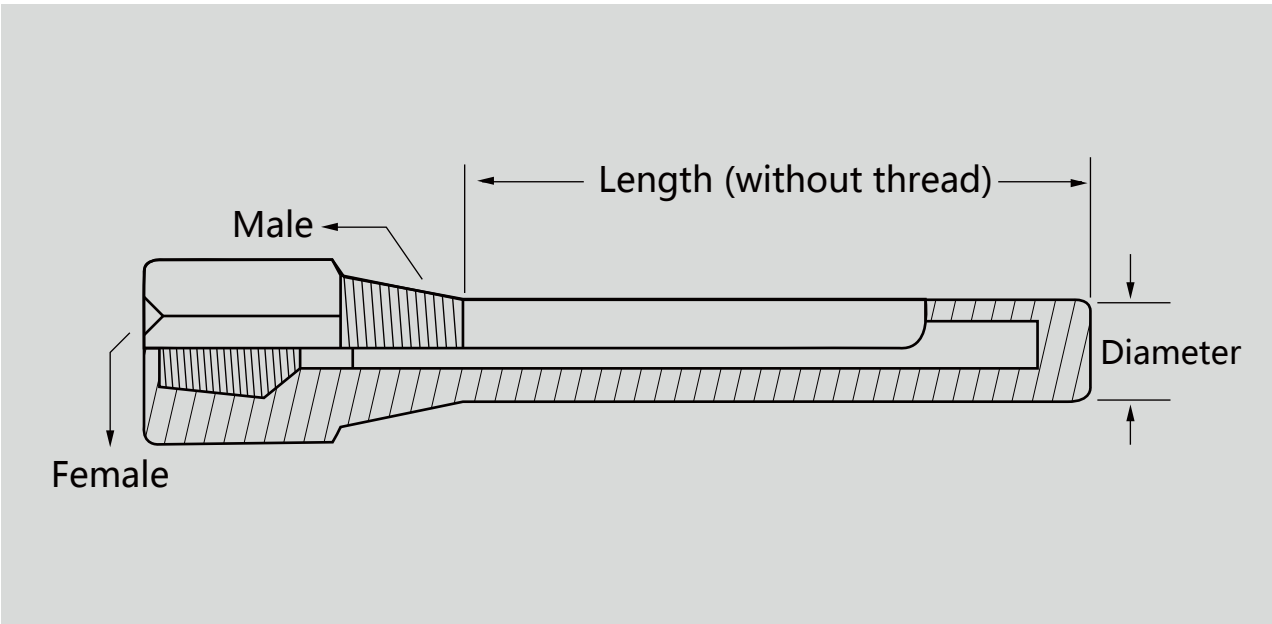
Thermowell

304 SS (standard), 316 SS

Length: can be customized

Diameter: 9.5, 10, 12, 15 mm

Dimensions



Flanged thermowell

Model: TWF

Product Description

- Can be installed on bimetal thermometers, thermometer pointers and thermocouples
- Used in the chemical industry, factory construction, and drilling (both onshore and offshore)



Product Specification

Version

Fabricated from pipe (standard),
machined from solid bar stock

Type

Straight, tapered, stepped

Connection to thermometer

1/4", 3/8", 1/2", 1"

PT, G, NPT, M

Type of process connection

JIS, ANSI, DIN

Nominal diameter

1/2", 3/4", 1", 1-1/4",

1-1/2", 2", 3"

Material

304 SS (standard), 316 SS

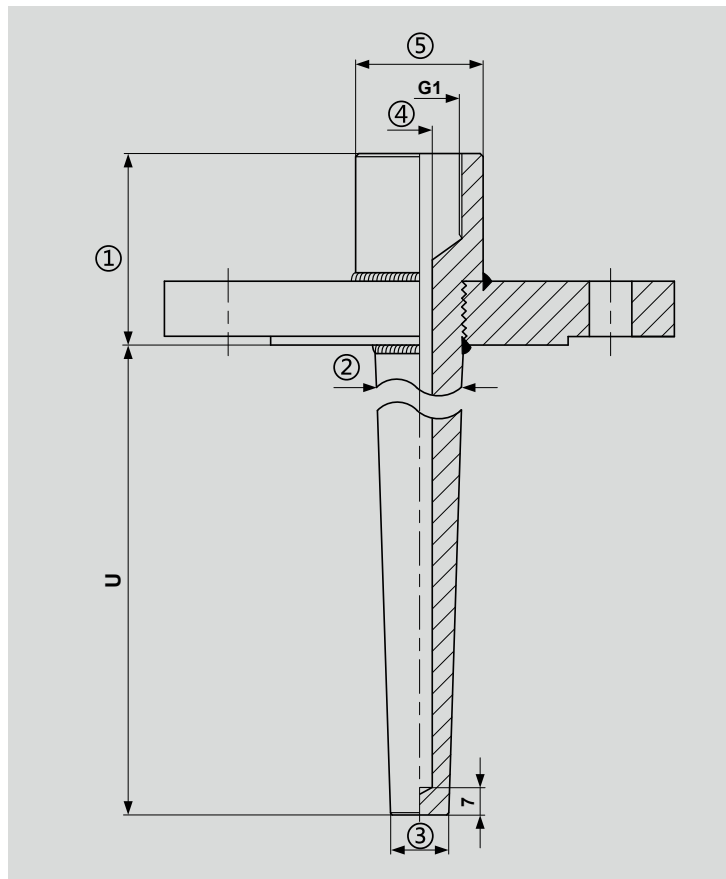
Length

Above 25 mm (without flange)
can be customized

Diameter

9.5, 10, 15 mm

Dimensions



size	Class	Dimensions in mm				
		①	②	③	④	⑤
1"	150	55	22	15	7 or 9	28
	300	55	22	15	7 or 9	28
	600	55	22	15	7 or 9	28
	1500	85	22	15	7 or 9	28
1-1/2"	150	55	25	19	7 or 9	28
	300	55	25	19	7 or 9	28
	600	55	25	19	7 or 9	28
	1500	85	25	19	7 or 9	28
2"	150	55	25	19	7 or 9	28
	300	55	25	19	7 or 9	28
	600	55	25	19	7 or 9	28
	1500	85	25	19	7 or 9	28

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*Elements For
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