

# PLATINUM RESISTANCE BULB FOR GENERAL USE

DATA SHEET

FTF

These platinum resistance bulbs are convenient for measuring a wide range of temperatures in plants and the like.

The resistance element is protected by an internal tube and moreover by an external tube in order to fully withstand high temperature, high pressure and corrosion.

A contact strip is inserted between the internal and external protecting tubes, which enables a quick response and ensures high resistance to vibration.

## SPECIFICATIONS

Applicable standard:

JIS C 1604—1997

Resistance element:

Kind of element and nominal resistance value; Pt100Ω  
 Class; B class, A class  
 Prescribed current; 2mA  
 Temperature accuracy;

Class	Accuracy
A	± (0.15 + 0.002t) °C
B	± (0.3 + 0.005t) °C

Note: (1) t is measuring temperature indicated in °C and unrelated to the + and - signs.

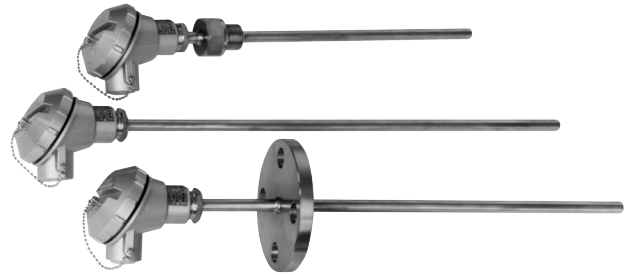
(2) Accuracy means maximum allowable limit when subtracting the re-resistance value of resistance element from the temperature in terms of resistance calculated according to the standard resistance table.

Protecting tube material:

S ; 304 stainless steel  
 W ; 316 stainless steel  
 \*T ; 316L stainless steel

Mounting method and shape of protecting tube:

Mounting method	Protecting tube shape		
Insertion type 	A	B	C
Screw-in type 	F	G	H
Screw-in type 	J	L	—
Flange type 	M	N	P



Mounting method:

Insertion type;

Either movable flange (FTR), movable airtight flange (FTT), or movable airtight screw (FTS) is employed for mounting

Screw-in type;

G3/4 (PT3/4) or R3/4 (PT3/4) external thread (impossible with H type)

Flange type;

JIS 10K-25A • JIS 20K-25A  
 JIS 30K-25A or JIS 63K-25A  
 (impossible with N or P type)

Insertion length: See page 3

Structure of element:

- |                   |               |
|-------------------|---------------|
| 1; Single element | 2-wire method |
| (100Ω B class)    |               |
| 3; Single element | 3-wire method |
| (100Ω B class)    |               |
| 4; Double element | 2-wire method |
| (100Ω B class)    |               |
| 6; Double element | 3-wire method |
| (100Ω B class)    |               |
| 7; Single element | 3-wire method |
| (100Ω A class)    |               |
| 8; Double element | 3-wire method |
| (100Ω A class)    |               |

Feasible combinations of mounting method and element structure:

	A	B	C	F	G	H	J	L	M	N	P
1, 3	○	○	○	○	○	○	○	○	○	○	○
7	◎	○	○	○	○	○	◎	○	◎	○	○
4	◎		○				◎		◎		
6, 8	○		○				○		○		

Note: ○ Manufacturing possible  
 ◎ Manufacturing possible  
 Flameproof-explosionproof-possible

Working conditions:

See page 4

Terminal box: Material; Diecast aluminum alloy

Conduit connection; G1/2 (PF1/2) (JIS 15C)

Two conduit connections should be provided with double element 3-wire re-sistance bulb.

Coating; Baked melamine resin

Finish color; Silver

Nominal resistance table:

See page 3

Scope of delivery: Platinum resistance bulb

Note: \*(1) Combination of protecting tube shape and mounting dimension

Protecting tube shape			
Mounting method			
Insertion type	A	B	C
Screw-in type	F	G	H
Screw-in type	J	L	—
Flange type	M	N	P

(a) When the element code No. 6 is used, the terminal box form should be provided with two conduit connections.  
 (b) Feasible combinations of element and mounting method.

	A	B	C	F	G	H	J	L	M	N	P
1, 3	◎	○	○	○	○	○	◎	○	◎	○	○
7	◎	○	○	○	○	○	◎	○	◎	○	○
4	◎		○				◎		◎		
6, 8	○		○				○		○		

○ Manufacturing possible  
 ◎ Explosionproof structure possible

\*(2) Cabtyre cable of 1m lg. is provided when the filling compound is used.

CODE SYMBOLS

1	2	3	4	5	6	7	8	9	10	11	12	13
F	T	F					4					
Description												
<b>Element</b>												
1	Single element											
3	2-wire method (100Ω B class)											
4	Single element											
6	3-wire method (100Ω B class)											
7	Double element (double winding)											
8	2-wire method (100Ω B class)											
*	Double element (double winding)											
7	3-wire method (100Ω B class)											
8	Single element											
	3-wire method (100Ω A class)											
	Double element											
	3-wire method (100Ω A class)											
	Note: 100Ω, 0.5 class is standard.											
<b>Mounting method *(1)</b>												
A	Insertion type											
B	Insertion type											
C	Insertion type											
F	Screw-in type (for low temperature)											
G	Screw-in type (for low temperature)											
H	Screw-in type (for low temperature)											
J	Screw-in type (for high temperature)											
L	Screw-in type (for high temperature)											
M	Flange type											
N	Flange type											
P	Flange type											
<b>Protecting tube material</b>												
S	304 stainless steel											
W	316 stainless steel											
T	316L stainless steel											
<b>Mounting dimension</b>												
1	Flange JIS 10K-25A											
2	Flange JIS 20K-25A											
3	Flange JIS 30K-25A											
4	Flange JIS 63K-25A (impossible with mounting method N or P)											
7	Mounting thread G3/4 (PF3/4)											
8	Mounting thread R3/4 (PT3/4)											
0	(Combination with H type mounting method is excluded)											
	Insertion type											
<b>Insertion length [mm]</b>												
015	Fill in insertion length in cm unit											
∧	(According to table of insertion lengths)											
295	Ex.: Insertion length 500mm → 050											
	1000mm → 100											
<b>Structure/Explosionproofing</b>												
A	Standard type											
B	Plastic terminal type											
C	Flameproof type (d2G4)											
F	System intrinsically safe explosion-proofing (i3nG5) for connection with zener barrier											
<b>Lining and filling compound *(2)</b>												
Lining												Filling compound
0	None											None
1	None											Paraffin
2	None											Silicon grease
*	Lead homogen											None
*	Lead homogen											Paraffin
*	Lead homogen											Silicon grease
*	Kel-F											None
*	Kel-F											Paraffin
*	Kel-F											Silicon grease

Asterisked (\*) items : Non-standard

### Insertion length (Unit: mm) [Dimension "L" of "Outline Diagram"]

Mounting method	Insertion length										
	A	B	C	F	G	H	J	L	M	N	P
Insertion length	150	150									
	200	200	200	150	150						
	250	250	250	200	200	200			150	150	
	300	300	300	250	250	250	150	150	200	200	200
	350	350	350	300	300	300	200	200	250	250	250
	400	400	400	350	350	350	250	250	300	300	300
	450	450	450	400	400	400	300	300	350	350	350
	500	500	500	450	450	450	350	350	400	400	400
	550	550	550	500	500	500	400	400	450	450	450
	600	600	600	550	550	550	450	450	500	500	500
	650	650	650	600	600	600	500	500	550	550	550
	700	700	700	650	650	650	550	550	600	600	600
	750	750	750	700	700	700	600	600	650	650	650
	800	800	800	750	750	750	650	650	700	700	700
	850	850	850	800	800	800	700	700	750	750	750
	900	900	900	850	850	850	750	750	800	800	800
	950	950	950	900	900	900	800	800	850	850	850
	1,050	1,050	1,050	1,000	1,000	1,000	900	900	950	950	950
	1,150	1,150	1,150	1,100	1,100	1,100	1,000	1,000	1,050	1,050	1,050
	1,250	1,250	1,250	1,200	1,200	1,200	1,100	1,100	1,150	1,150	1,150
1,350	1,350	1,350	1,300	1,300	1,300	1,200	1,200	1,250	1,250	1,250	
1,450	1,450	1,450	1,400	1,400	1,400	1,300	1,300	1,350	1,350	1,350	
											1,450
											1,500
											1,550
											1,600
											1,650
											1,700
											1,750
											1,800
											1,850
											1,900
											1,950
											2,400
											2,450
											2,900
											2,950

### Nominal resistance value of resistance bulb

JIS C 1604-1997

Temp. [°C]	-100	0	Temp. [°C]	0	100	200	300	400	500	600	Temp. [°C]
-0	60.26	100.00	0	100.00	138.51	175.86	212.05	247.09	280.98	313.71	0
-10	56.19	96.09	10	103.90	142.29	179.53	215.61	250.53	284.30	316.92	10
-20	52.11	92.16	20	107.79	146.07	183.19	219.15	253.96	287.62	320.12	20
-30	48.00	88.22	30	111.67	149.83	186.84	222.68	257.38	290.92	323.30	30
-40	43.88	84.27	40	115.54	153.58	190.47	226.21	260.78	294.21	326.48	40
-50	39.72	80.31	50	119.40	157.33	194.10	229.72	264.18	297.49	329.64	50
-60	35.54	76.33	60	123.24	161.05	197.71	233.21	267.56	300.75	—	60
-70	31.34	72.33	70	127.08	164.77	201.31	236.70	270.93	304.01	—	70
-80	27.10	68.33	80	130.90	168.48	204.90	240.18	274.29	307.25	—	80
-90	22.83	64.30	90	134.71	172.17	208.48	243.64	277.64	310.49	—	90
-100	18.52	60.26	100	138.51	175.86	212.05	247.09	280.98	313.71	—	100

Remarks: The resistance values given in the above table are those when nominal resistance value "R<sub>0</sub>" is 100Ω.  
(Unit: Ω)

Working conditions

Model	Working temperature, working pressure	Application	Mass{weight}	Outline diagrams
FTF <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">6</div> <div style="border: 1px solid black; padding: 2px;">7</div> <div style="border: 1px solid black; padding: 2px;">8</div> </div> <div style="margin: 0 10px;">A</div> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;">W</div> <div style="border: 1px solid black; padding: 2px;">T</div> </div> </div>	Working temp.: -200 to +650 °C Working pressure; Atmospheric pressure (When both movable airtight screw and flange are used, working pressure can be up to 0.1MPa {1.02kgf/cm <sup>2</sup> })	Used for corrosive gas or liquid, and when the insertion length is desired to be adjustable	0.5 to 2 kg	Fig. 1 Fig. 2
FTF <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">7</div> </div> <div style="margin: 0 10px;">B</div> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;">W</div> <div style="border: 1px solid black; padding: 2px;">T</div> </div> </div>	Ditto	Ditto Used when especially short time lag is required	0.5 to 1.5 kg	Fig. 3
FTF <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">7</div> </div> <div style="margin: 0 10px;">C</div> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;">W</div> <div style="border: 1px solid black; padding: 2px;">T</div> </div> </div>	Ditto	Ditto Used when greater insertion length is required	0.7 to 4.4 kg	Fig. 4
FTF <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">6</div> <div style="border: 1px solid black; padding: 2px;">7</div> <div style="border: 1px solid black; padding: 2px;">8</div> </div> <div style="margin: 0 10px;">F</div> <div style="margin: 0 10px;">J</div> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;">W</div> <div style="border: 1px solid black; padding: 2px;">T</div> </div> </div>		Used for corrosive gas or liquid. Used for comparatively high temp., high pressure. J type is used when the temp. in the terminal box is expected to rise or when there is heat-retaining material	0.5 to 1.8 kg	Fig. 5 Fig. 6 Fig. 7 Fig. 8
FTF <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">7</div> </div> <div style="margin: 0 10px;">G</div> <div style="margin: 0 10px;">L</div> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;">W</div> <div style="border: 1px solid black; padding: 2px;">T</div> </div> </div>		Used for corrosive gas or liquid. L type is used when the temp. in the terminal box is expected to rise or when there is heat-retaining material, or used when especially short time lag is required	0.5 to 1.5 kg	Fig. 9 Fig. 10
FTF <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">7</div> </div> <div style="margin: 0 10px;">H</div> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;">W</div> <div style="border: 1px solid black; padding: 2px;">T</div> </div> </div>		Used for water, air, corrosive gas etc., and especially in case greater insertion length is required	1 to 3 kg	Fig. 11
FTF <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">6</div> <div style="border: 1px solid black; padding: 2px;">7</div> <div style="border: 1px solid black; padding: 2px;">8</div> </div> <div style="margin: 0 10px;">H</div> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;">W</div> <div style="border: 1px solid black; padding: 2px;">T</div> </div> </div>	Working temp.; -200 to +650 °C Working pressure; Less than flange (JIS) nominal pressure JIS 10K-25 • JIS 20K-25 JIS 30K-25 • JIS 63K-25 Material; 304, 316, 316L stainless steel	Used for corrosive gas or liquid etc., and especially in case airtightness is required	1.4 to 3.8 kg	Fig. 12 Fig. 13 Fig. 14 Fig. 15 Fig. 16 Fig. 17 Fig. 18
FTF <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">7</div> </div> <div style="margin: 0 10px;">N</div> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;">W</div> <div style="border: 1px solid black; padding: 2px;">T</div> </div> </div>	Working temp.; -200 to +650 °C Working pressure; Less than flange (JIS) nominal pressure JIS 10K-25 • JIS 20K-25 JIS 30K-25 Material; 304, 316, 316L stainless steel	Ditto Used when especially short time lag is required	1.4 to 3.8 kg	Fig. 19 Fig. 20 Fig. 21
FTF <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">7</div> </div> <div style="margin: 0 10px;">P</div> <div style="display: flex; flex-direction: column; gap: 2px;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;">W</div> <div style="border: 1px solid black; padding: 2px;">T</div> </div> </div>	Ditto	Ditto Used when especially long insertion length is required	1.2 to 6.3 kg	Fig. 22 Fig. 23 Fig. 24

Note: When the resistance bulb is used at a place of low temperature (below 0 °C) or of high temperature, use a bulb which is filled internally with paraffin or silicon compound after connecting the cable.  
Paraffin can be used in a range of 0 to 50 °C and silicon in a range of - 60 to + 150 °C.

# OUTLINE DIAGRAM [Unit:mm] (Refer to working conditions of page 4)

Determine insertion length "L" by collating the 5th digit of code symbols with the table shown on page 3.  
For example, when the 5th digit of code symbol is A, select "L" from 22 lengths, 150mm to 1450mm, by the table shown on page 3.

## Insertion type

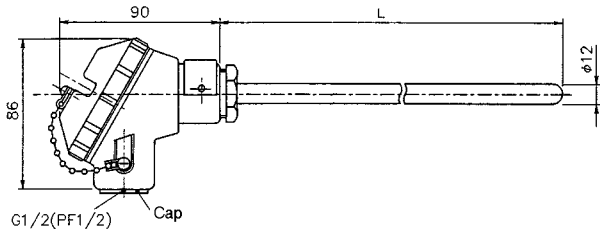


Fig. 1  
FTF 

1	3	4	7
---	---	---	---

 A 

S	W	T
---	---	---

 04 - ... 

A	F
---	---

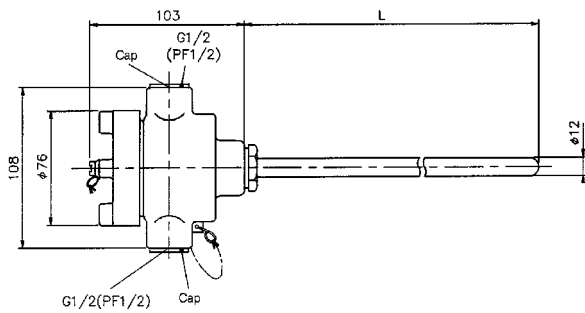


Fig. 2  
FTF 

6	8
---	---

 A 

S	W	T
---	---	---

 04 - ... 

A	F
---	---

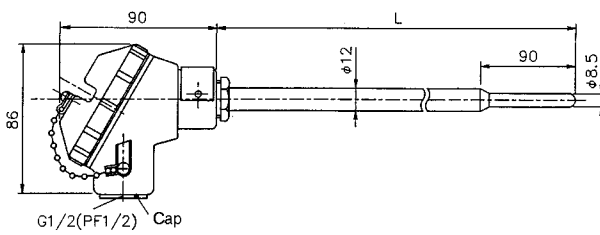


Fig. 3  
FTF 

1	3	7
---	---	---

 B 

S	W	T
---	---	---

 04 - ... 

A	F
---	---

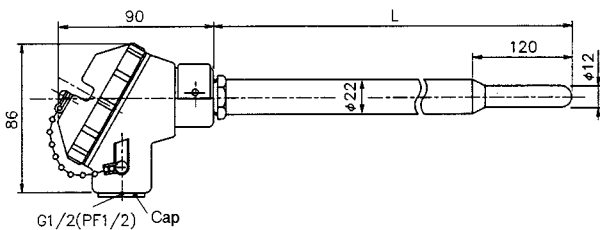


Fig. 4  
FTF 

1	3	7
---	---	---

 C 

S	W	T
---	---	---

 04 - ... 

A	F
---	---

## Screw-in type

Dimension "A" on the neck part of screw-in type is as follows.

5th digit of code symbols	A
F, G	50mm
J, L	150mm

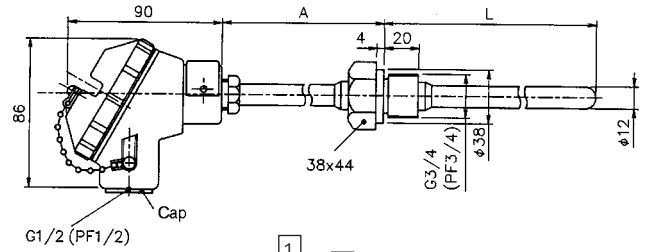


Fig. 5  
FTF 

1	3	4	7
---	---	---	---

F	J
---	---

S	W	T
---	---	---

 74 - ... 

A	F
---	---

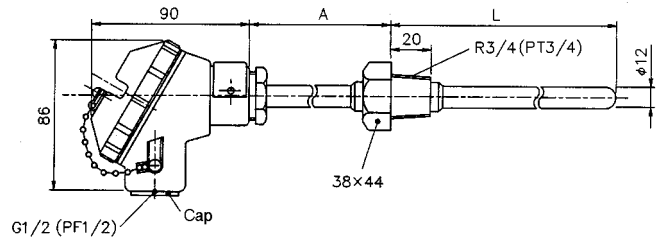


Fig. 6  
FTF 

1	3	4	7
---	---	---	---

F	J
---	---

S	W	T
---	---	---

 84 - ... 

A	F
---	---

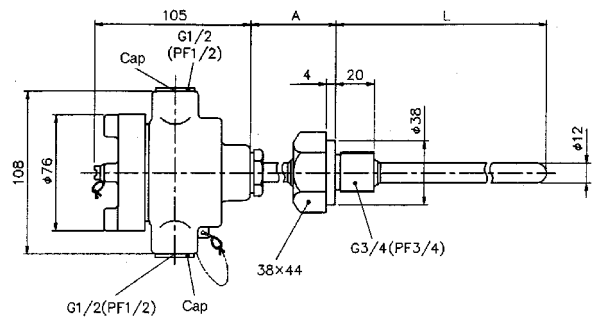


Fig. 7  
FTF 

6	8
---	---

F	J
---	---

S	W	T
---	---	---

 74 - ... 

A	F
---	---

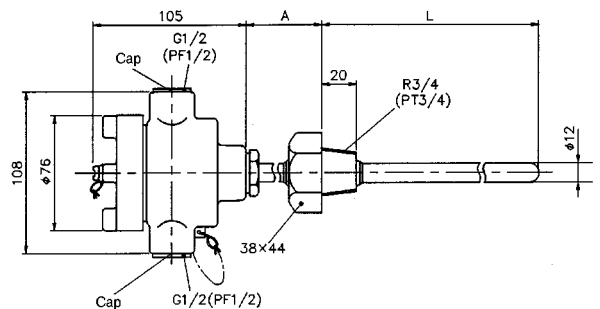


Fig. 8  
FTF 

6	8
---	---

F	J
---	---

S	W	T
---	---	---

 84 - ... 

A	F
---	---

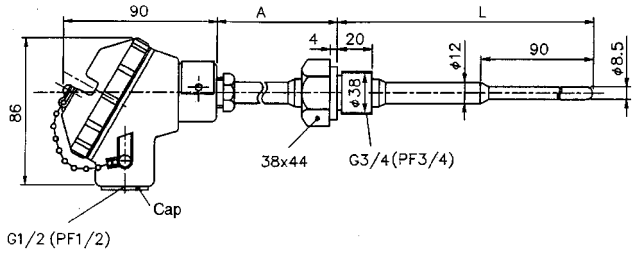


Fig. 9

FTF 

1	G	S
3	L	W
7		T

 74 - ... 

A	F
---	---

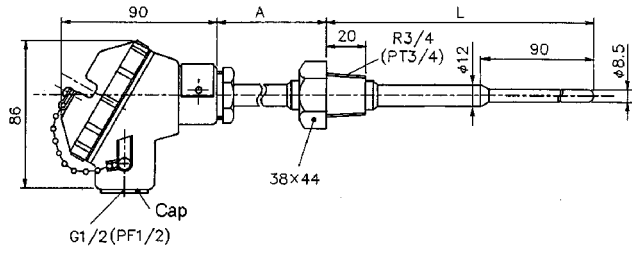


Fig. 10

FTF 

1	G	S
3	L	W
7		T

 84 - ... 

A	F
---	---

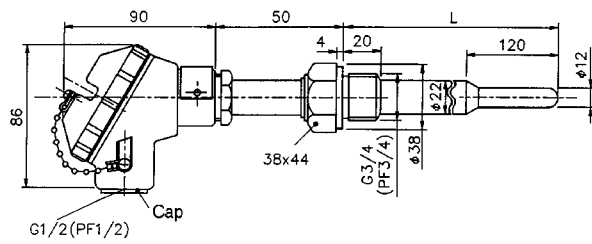


Fig. 11

FTF 

1	H	S
3		W
7		T

 74 - ... 

A	F
---	---

Flange type

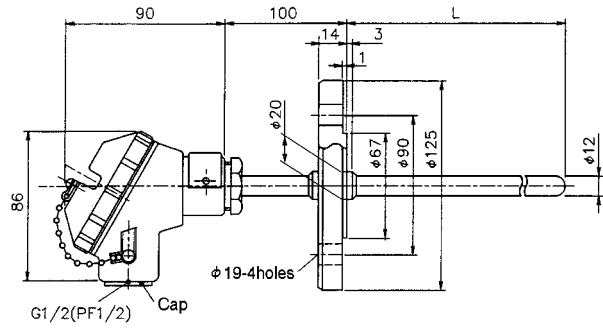


Fig. 12

FTF 

1	S
3	M
4	W
7	T

 14 - ... 

A	F
---	---

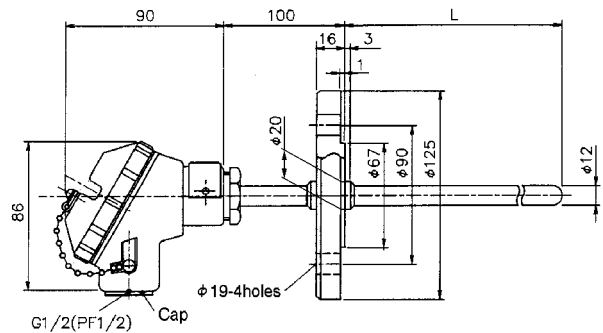


Fig. 13

FTF 

1	S
3	M
4	W
7	T

 24 - ... 

A	F
---	---

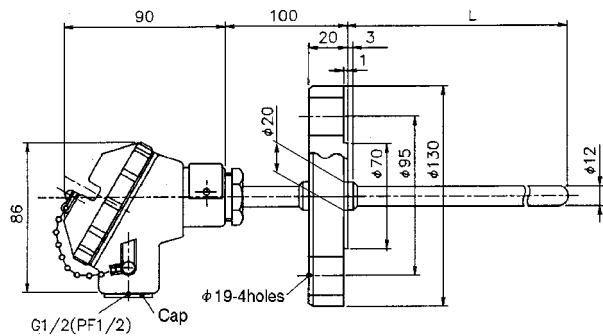


Fig. 14

FTF 

1	S
3	M
4	W
7	T

 34 - ... 

A	F
---	---

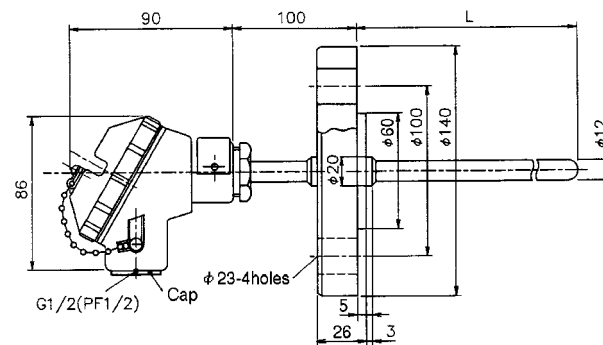


Fig. 15

FTF 

1	S
3	M
4	W
7	T

 44 - ... 

A	F
---	---

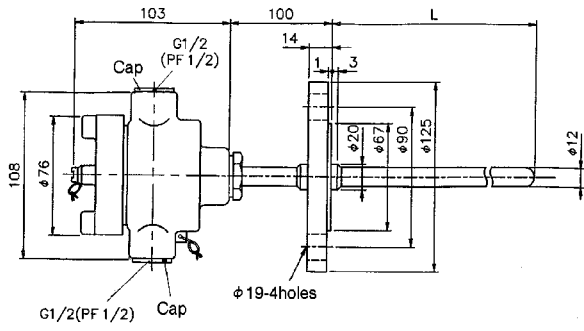


Fig. 16

FTF 

6
8

 M 

S
W
T

 14 - ●●● 

A
F

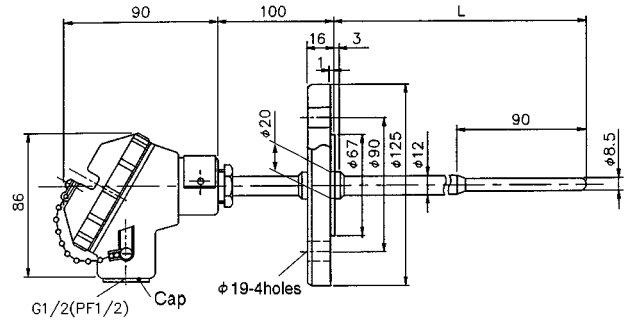


Fig. 20

FTF 

1
3
7

 N 

S
W
T

 24 - ●●● 

A
F

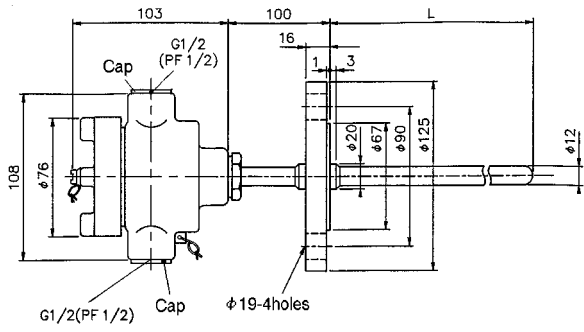


Fig. 17

FTF 

6
8

 M 

S
W
T

 24 - ●●● 

A
F

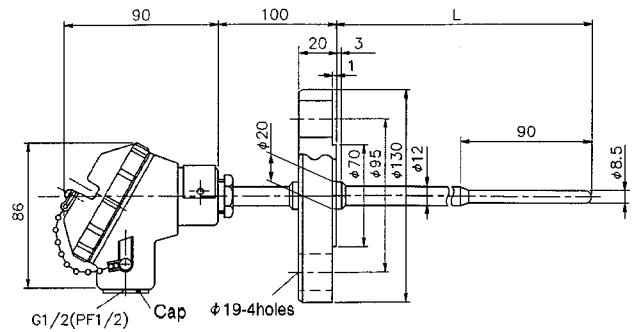


Fig. 21

FTF 

1
3
7

 N 

S
W
T

 34 - ●●● 

A
F

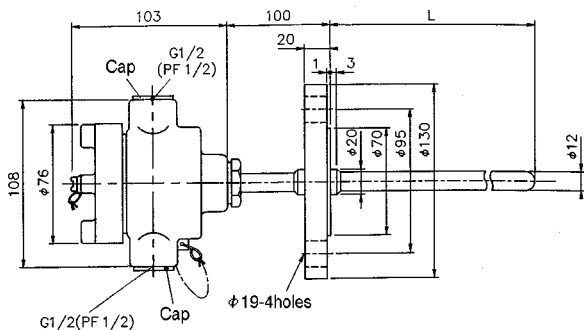


Fig. 18

FTF 

6
8

 M 

S
W
T

 34 - ●●● 

A
F

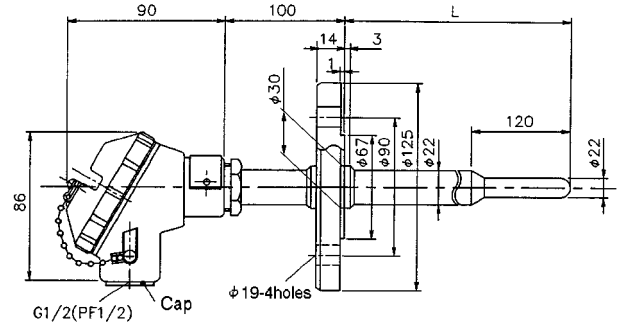


Fig. 22

FTF 

1
3
7

 P 

S
W
T

 14 - ●●● 

A
F

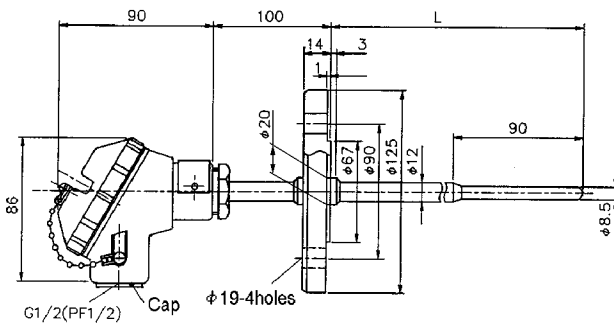


Fig. 19

FTF 

1
3
7

 N 

S
W
T

 14 - ●●● 

A
F

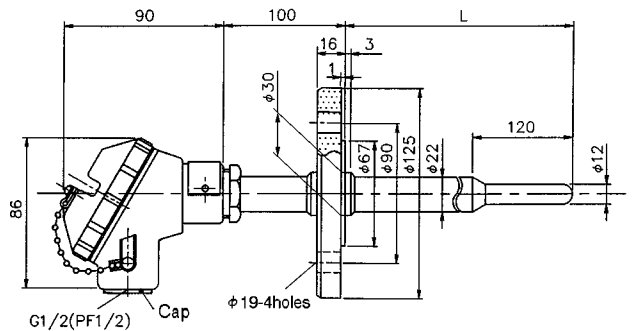


Fig. 23

FTF 

1
3
7

 P 

S
W
T

 24 - ●●● 

A
F

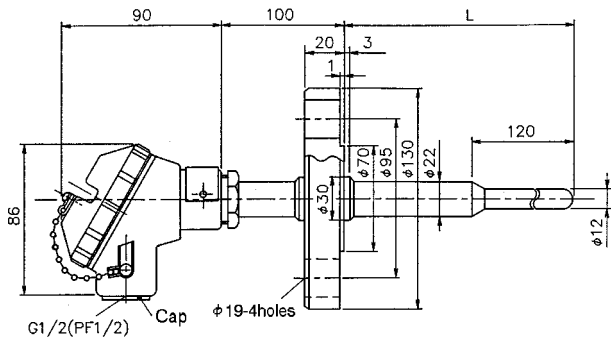
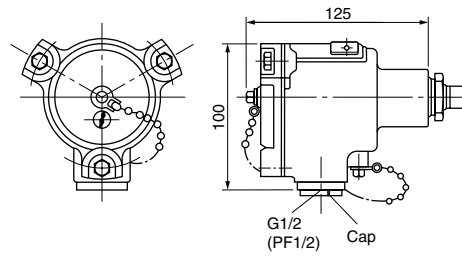


Fig. 24

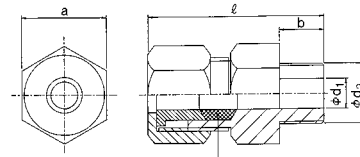


Terminal box for flameproof type



Movable airtight screw (type FTS)

2, 4, 6 in 4th digit of code

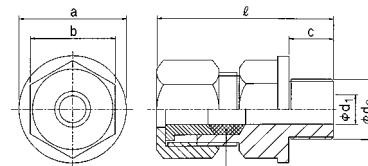


Thermal resistant packing (not supplied)

Type	φd <sub>1</sub>	φd <sub>2</sub>	a	b	Approx. ℓ	Protecting tube outer dia. (φD)	Mass (weight) [kg]
FTS6E	31	R1 1/4 (PT1 1/4)	58	30	100	30	1.2
FTS6D	28	R1 1/4 (PT1 1/4)	58	30	100	25 to 27	1.2
FTS4C	24	R1 (PT1)	50	20	80	21.3 to 22	0.8
FTS2A	13	R3/4 (PT3/4)	38	20	80	12	0.8

Note: Material is SS400

1, 3, 5 in 4th digit of code



Thermal resistant packing (not supplied)

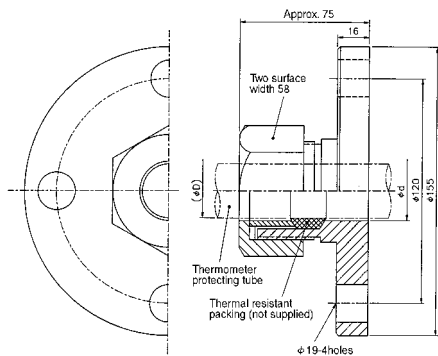
Type	φd <sub>1</sub>	φd <sub>2</sub>	φa	b	c	Approx. ℓ	Protecting tube outer dia. (φD)	Mass (weight) [kg]
FTS5E	31	G1 1/4 (PF1 1/4)	69	58	30	100	30	1.2
FTS5D	28	G1 1/4 (PF1 1/4)	69	58	30	100	25 to 27	1.2
FTS3C	24	G1 (PF1)	59	50	20	80	21.3 to 22	0.8
FTS1A	13	G3/4 (PF3/4)	48	38	20	80	12	0.8

Note: Material is SS400



## Movable airtight flange (type FTT)

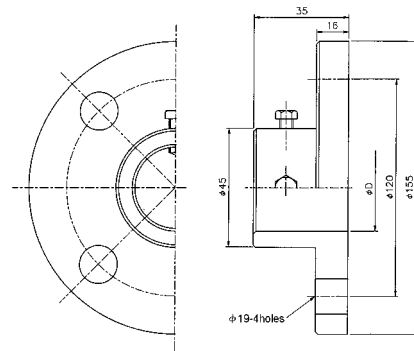
### JIS 10K-50 flange



φd	Protecting tube outer dia. (φD)	Material
31	30	SS400
28	26.8 • 27	
24	21.3 • 21.7 • 22	

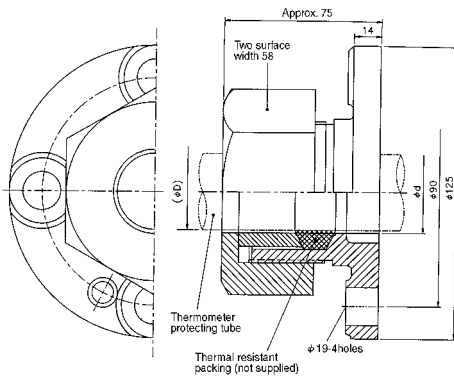
## Movable flange (type FTR)

### JIS 10K-50 flange



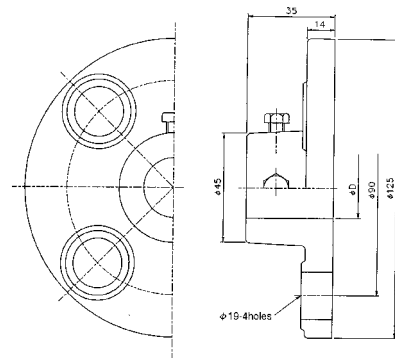
φd	Protecting tube outer dia. (φD)	Material
50	49	SS400
31	30	
28	25 to 27	
24	21.3 to 22	
13	12	

### JIS 10K-25 flange



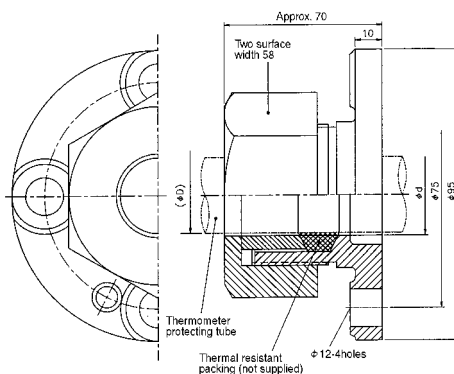
Type	φd	Protecting tube outer dia. (φD)	Material
FTT2D	28	26.8 • 27	FC200
FTT2C	24	21.3 • 21.7 • 22	
FTT2A	13	12	

### JIS 10K-25 flange



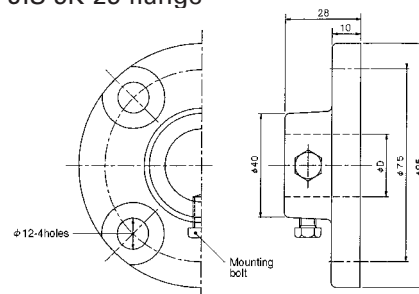
Type	φd	Protecting tube outer dia. (φD)	Material
FTR2D	28	25 to 27	FC200
FTR2C	24	21.3 to 22	
FTR2A	13	12	

### JIS 5K-25 flange



Type	φd	Protecting tube outer dia. (φD)	Material
FTT1D	28	26.8 • 27	FC200
FTT1C	24	21.3 • 21.7 • 22	
FTT1A	13	12	

### JIS 5K-25 flange



Type	φd	Protecting tube outer dia. (φD)	Material
FTR1D	28	25 to 27	FC200
FTR1C	24	21.3 to 22	
FTR1A	13	12	

⚠ Caution on Safety

\*Before using this product, be sure to read its instruction manual in advance.

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Printed in Japan