

THERMO-RESISTANCES



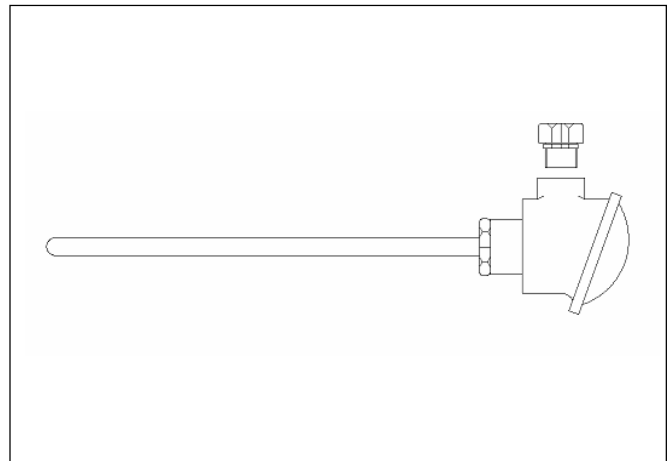
- Measure field $-70\div 500\text{ }^{\circ}\text{C}$
- Tolerance complying with norm IEC 751 A or B cl.: $(\pm 0.15^{\circ}\text{C e } \pm 0.3^{\circ}\text{C a } 0^{\circ}\text{C}$ respectively)
- High reliability
- Output almost linear
- Production process certificated ISO9001

Thermo-resistances exploit metals resistivity changes upon temperature variations. The most accurate thermo-resistances are the platinum ones, that grant the maximum output linearity, the best reliability and the largest measure field.

Generally, thermo-resistances are more accurate and definitively more linear than thermo-couples but they can be used in smaller measure field ($-70\div 500^{\circ}\text{C}$).

Typically thermo-resistances are assembled within a metallic sheath that grants the insulation from condensation and from corrosion. It also gives a good mechanical protection.

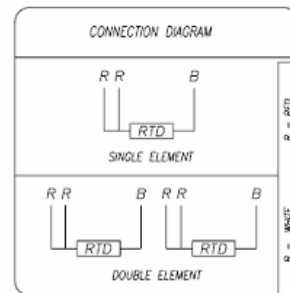
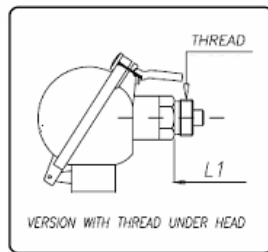
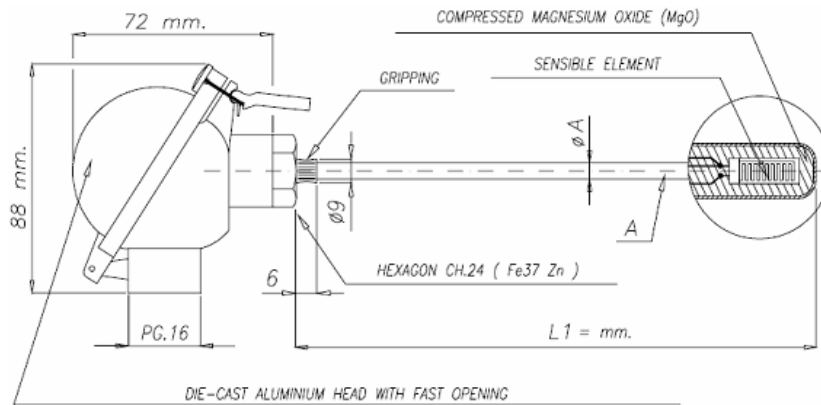
Thermo-resistances have a head containing the terminals for electrical connections where it is also possible to install a signal transducer with $4\div 20\text{mA}$ output.



They are available models with single or double sensible element, with different diameters and length from 50 to 3000 mm.

It is also possible to have a thermowell for the installation of thermo-resistance within the pipe.

DIMENSIONAL DRAWING



CHOOSING GUIDE

Element type	
1	Single element (3 wires)
2	Double element (6 wires)

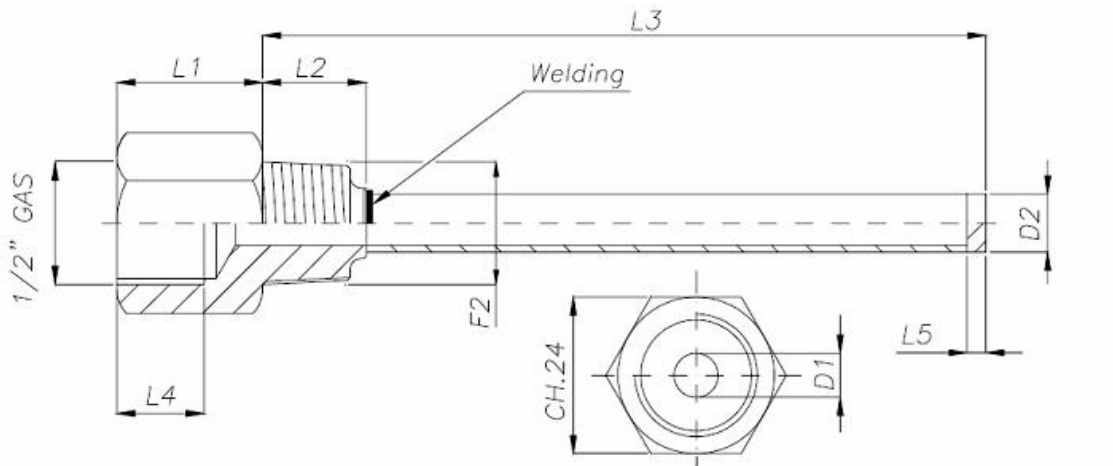
Sensible element tolerance (IEC 751)	
0	B class (+/- 0.3° C at 0° C)
3	A class (+/- 0.15° C at 0° C)

Sheath diameter (A)	
30	Ø 3 mm
45	Ø 4.5 mm
60	Ø 6 mm

Length (L1)					
01	50 mm	15	750 mm	38	1900 mm
02	100 mm	16	800 mm	40	2000 mm
03	150 mm	17	850 mm	42	2100 mm
04	200 mm	18	900 mm	44	2200 mm
05	250 mm	19	950 mm	46	2300 mm
06	300 mm	20	1000 mm	48	2400 mm
07	350 mm	22	1100 mm	50	2500 mm
08	400 mm	24	1200 mm	52	2600 mm
09	450 mm	26	1300 mm	54	2700 mm
10	500 mm	28	1400 mm	56	2800 mm
11	550 mm	30	1500 mm	58	2900 mm
12	600 mm	32	1600 mm	60	3000 mm
13	650 mm	34	1700 mm		
14	700 mm	36	1800 mm		

THERMOWELL

DIMENSIONAL DRAWING



Mod.	L1	L2	L4
1310	25 mm.	18 mm	20 mm.
1320	25 mm.	21 mm	20 mm.

D2	6 mm.	8 mm	10 mm.	14 mm.	17.2 mm.
D1	5.4 mm.	6 mm	7 mm.	11 mm.	14.2 mm.
L5	1 mm.	1 mm	1.5 mm.	1.5 mm.	1.5 mm.

CHOOSING GUIDE

Screw thread (F2)	
10	½" GAS cylindrical
20	½" NPT

Pipe material	
6	INOX AISI 316
0	INOX AISI 310 (only for Ø 10, 14 and 17.2 mm)

Diameter (D2)	
06	Ø 6 mm
08	Ø 8 mm
10	Ø 10 mm
14	Ø 14 mm
17	Ø 17.2 mm

Length (L3)					
01	30 mm	15	730 mm	38	1880 mm
02	80 mm	16	780 mm	40	1980 mm
03	130 mm	17	830 mm	42	2080 mm
04	180 mm	18	880 mm	44	2180 mm
05	230 mm	19	930 mm	46	2280 mm
06	280 mm	20	980 mm	48	2380 mm
07	330 mm	22	1080 mm	50	2480 mm
08	380 mm	24	1180 mm	52	2580 mm
09	430 mm	26	1280 mm	54	2680 mm
10	480 mm	28	1380 mm	56	2780 mm
11	530 mm	30	1480 mm	58	2880 mm
12	580 mm	32	1580 mm	60	2980 mm
13	630 mm	34	1680 mm		
14	680 mm	36	1780 mm		