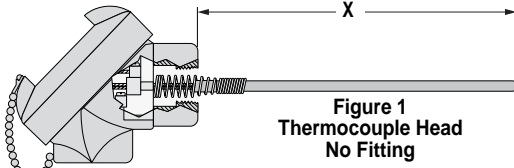
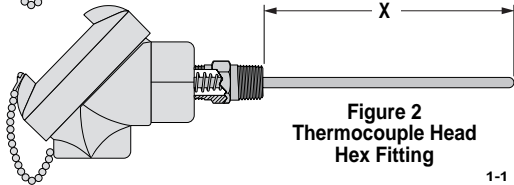


The spring loaded RTD assemblies described below are generally for use in pressure tight drilled wells and for bearing temperature measurement, however they can also be used in other process applications. A selection of either the **low range**, -328 to 400°F (-200 to 204°C), or the **high range**, -328 to 1112°F (-200 to 600°C), is available as well as a variety of other construction styles of sheath diameters and connecting heads. Replacement elements for these assemblies are found on page RTD-8.

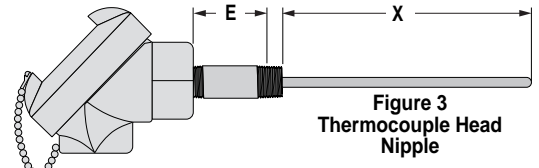


**Figure 1**  
Thermocouple Head  
No Fitting

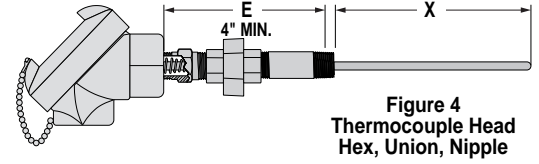


**Figure 2**  
Thermocouple Head  
Hex Fitting

All 'X' dimensions are shown with spring in its fully expanded position. Spring will compress 1/2" minimum to 3/4" maximum upon insertion



**Figure 3**  
Thermocouple Head  
Nipple



**Figure 4**  
Thermocouple Head  
Hex, Union, Nipple

EXAMPLE ORDER NUMBER:

**R1T185L 48 063 - SL - 601 - 31 - I**

1-1 SINGLE PLATINUM RTD ELEMENTS					1-2 316 SS SHEATH		
ELEMENT ACCURACY @ 0°C			SPECS		OD DIAMETERS		
± .1%	± .03%	± .01%	VALUE IN OHMS	TEMP COEF	3/16"	1/4"	3/8"
ORDER CODE	ORDER CODE	ORDER CODE			ORDER CODE	ORDER CODE	ORDER CODE
<b>Low Range -328 to 400°F (-200 to 204°C)</b>							
R1T185L	R3T185L	R5T185L	100	.00385	38	48	68
R1T191L	R3T191L		100	.00391	38	48	68
<b>High Range -328 to 1112°F (-200 to 600°C)</b>							
R1T185H	R3T185H	R5T185H	100	.00385	38	48	68
R1T191H	R3T191H		100	.00391	38	48	68
DUPEX PLATINUM RTD ELEMENTS					316 SS SHEATH		
ELEMENT ACCURACY @ 0°C			SPECS		OD DIAMETERS		
± .1%	± .03%	± .01%	VALUE IN OHMS	TEMP COEF	3/16"	1/4"	3/8"
ORDER CODE	ORDER CODE	ORDER CODE			ORDER CODE	ORDER CODE	ORDER CODE
<b>Low Range -328 to 400°F (-200 to 204°C)</b>							
R1T285L	R3T285L	R5T285L	100	.00385	38	48	68
R1T291L	R3T291L		100	.00391	38	48	68
<b>High Range -328 to 1112°F (-200 to 600°C)</b>							
R1T285H	R3T285H	R5T285H	100	.00385	38	48	68
R1T291H	R3T291H		100	.00391	38	48	68

*For other elements see Table 1-1 on page RTD - 1*

4 ASSEMBLY OPTIONS	
ORDER CODE	DESCRIPTION
I	Stainless Steel Tags
T	Transmitter (see pg. RTD-11)

3 HEAD TERMINATIONS	
ORDER CODE	DESCRIPTION
19 <sup>(1)</sup>	Explosion proof
31	Aluminum screw cover
34	Cast iron screw cover
53	Grey Delrin screw cover
63	White polypropylene screw cover

*(1) When ordered with hex fitting or union and nipple options, self contained hex fitting option SC must be ordered*

HEAD OPTIONS	
CODE	DESCRIPTION
GS <sup>(2)</sup>	Head w/ internal ground screw
W <sup>(2)</sup>	White epoxy coating
Y <sup>(3)</sup>	Ceramic terminal block
CC	1/2" NPT reducer bushing for conduit opening

*(2) Option 19, 31, 34 only; (3) Option 53, 63 only*

1-3 'X' SHEATH LENGTH	
ORDER CODE	DESCRIPTION
2 DIGIT "X" LENGTH	Specify 'X' sheath length in inches using 2 (two) digits

1-4 ELEMENT TYPE	
ORDER CODE	DESCRIPTION
2	Two wire per element
3	Three wire per element
4	Four wire per element (singles only)

2 HEAD EXTENSIONS: TYPE, MATERIAL, E LENGTH		
ORDER CODE	DESCRIPTION	FIG. NO.
000	No extension - head supplied with 1/2" NPT female process opening	1
ORDER CODE		EXTENSION "E" LENGTH
STEEL	304 SS 316 SS	
601	801	1" hex fitting
604	904 804	4" with nipple
6--	9-- 8--	Specify 'E' lgth. in inches
604P	904P 804P	4" with nipple/union
6--P	9--P 8--P	Specify 'E' lgth. in inches
OPTIONS		
N	Standard hex fitting with Buna-N 'O' ring oil seal (-40 to 250°F)	
SC <sup>(4)</sup>	Self contained spring loaded hex ftg.	
SCN <sup>(4)</sup>	Self contained spring loaded hex ftg. w/ Buna-N 'O' ring oil seal (-40 to 250°F)	

*(4) Not available with head code 53 or 63*

To order spring loaded assemblies with extensions for existing wells, specify an 'X' dimension equal to well 'A' dimension (over-all length)