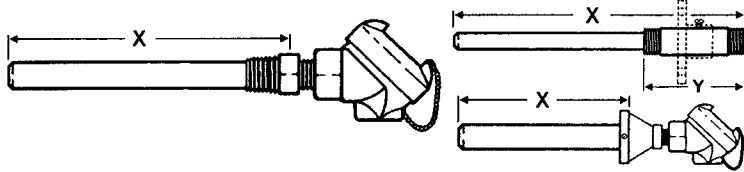


# Straight Thermocouple Assemblies With Ceramic Protection Tubes



**TABLE 2 OPTIONS**

- |                                            |                                                                                                                            |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| A. Open End (Closed End Standard)          | P. Steel union and nipples to connect head to protection tube.                                                             |
| B. Head with internal ground screw         | T. Heavy duty Pyco Process Head                                                                                            |
| H. Adjustable Steel Flange                 | V. Stainless Steel union and Nipples                                                                                       |
| I. Other (Specify)                         | W. Protective epoxy coating on head—2 mil. min.— white only If stainless steel bushings required, suffix SS after options. |
| K. Weatherproof Head—Aluminum              | X. Explosion-proof head Only Wire                                                                                          |
| L. T.C. Insulated from Tube                |                                                                                                                            |
| M. Special Limits of Error Wire            |                                                                                                                            |
| N. Open Type Terminal Head for P-R-RH-T.C. |                                                                                                                            |

**TABLE 1 MULLITE (63% ALUMINA) PROTECTION TUBES (MAXIMUM TEMPERATURE 2750° F.)**

Protection Tubes		Mounting Fitting Type & Length	Series	Type K Thermocouple			Type R or S	Type R or S	Type B	Type C
ID x OD	Size			8 Gauge	11 Gauge	14 Gauge	24 Gauge	26 Gauge	24 Gauge	24 Gauge
1/4" x 3/8"	1/2" NPT	1" Long Nipple	16A1	----	----	----	S / R 24-16A1	S / R 26-16A1	----	----
1/4" x 3/8"	1/2" NPT	4" Long Nipple	16A4	----	----	----	S / R 24-16A4	S / R 26-16A4	----	----
1/4" x 3/8"	1/2" NPT	(Y)" Long Nipple(Specify)	16A(y)	----	----	----	S / R 24-16A(y)	S / R 26-16A(y)	----	----
7/16" x 11/16"	3/4" NPT	1" Long Nipple	16B1	----	K11-16B1	K14-16B1	S / R 24-16B1	S / R 26-16B1	----	----
7/16" x 11/16"	3/4" NPT	4" Long Nipple	16B4	----	K11-16B4	K14-16B4	S / R 24-16B4	S / R 26-16B4	----	----
7/16" x 11/16"	3/4" NPT	(Y)" Long Nipple(Specify)	16B(y)	----	K11-16B(y)	K14-16B(y)	S / R 24-16B(y)	S / R 26-16B(y)	----	----
7/16" x 11/16"	3/4" NPT	HEX Fitting	16BH	----	K11-16BH	K14-16BH	S / R 24-16BH	S / R 26-16BH	----	----
1/2" x 3/4"	3/4" NPT	1-1/2" Long Nipple	16C1	K8-16C1	----	----	----	----	----	----
1/2" x 3/4"	3/4" NPT	4" Long Nipple	16C4	K8-16C4	----	----	----	----	----	----
1/2" x 3/4"	3/4" NPT	(Y)" Long Nipple (Specify)	16C(y)	K8-16C(y)	----	----	----	----	----	----
1/2" x 3/4"	3/4" NPT	HEX Fitting	16CH	K8-16CH	----	----	----	----	----	----

**99.7% A1<sup>2</sup>O<sup>3</sup> ALUMINA (MAXIMUM TEMPERATURE 3400° F.)**

1/4" x 3/8"	1/2" NPT	1" Long Nipple	17A1	----	----	----	S / R 24-17A1	S / R 26-17A1	B24-17A1	C24-17A1
1/4" x 3/8"	1/2" NPT	4" Long Nipple	17A4	----	----	----	S / R 24-17A4	S / R 26-17A4	B24-17A4	C24-17A4
1/4" x 3/8"	1/2" NPT	(Y)" Long Nipple(Specify)	17A(y)	----	----	----	S / R 24-17A(y)	S / R 26-17A(y)	B24-17A(y)	C24-17A4(y)
7/16" x 11/16"	3/4" NPT	1" Long Nipple	17B1	----	----	----	S / R 24-17B1	S / R 26-17B1	B24-17B1	C24-17B1
7/16" x 11/16"	3/4" NPT	4" Long Nipple	17B4	----	----	----	S / R 24-17B4	S / R 26-17B4	B24-17B4	C24-17B4
7/16" x 11/16"	3/4" NPT	(Y)" Long Nipple(Specify)	17B(y)	----	----	----	S / R 24-17B(y)	S / R 26-17B(y)	B24-17B(y)	C24-17B4(y)
7/16" x 11/16"	3/4" NPT	HEX Fitting	17BH	----	----	----	S / R 24-17BH	S / R 26-17BH	B24-17BH	C24-17BH

**SILICON CARBIDE (MAXIMUM TEMPERATURE 3000° F.)**

1" x 1-3/4"	None or Table 2 Option H	18J	K8-18J	K11-18J	K14-18J	----	----	----	----
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**COMPLETE ORDER NUMBER**

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Table 1 — Select protection tube material, diameters and fitting size in Table 1. Read across to Gauge Column under required Thermocouple Type. Enter number in first box above. Note: For duplex thermocouples use Type letter twice.

Specify Protection Tube Length X in 6 inch increments (Minimum Standard: 12") Special Lengths on request.

Options Select from Table 2

(Example: R24 - 16BH—duplex becomes RR24 - 16BH)

Consult factory for optional NPT sizes and alloys