

Thermocouple Assemblies 90° Angle Type with Flanged or Pipe Elbow

Model Selection Guide

Instructions

•	Select the Key Number desired. The arrow to the right marks the selections available.
•	Make one selection each from Tables I, II and III using the column below the proper arrow. Select Table V Options if desired.
•	A dot denotes unrestricted availability. A letter denotes restricted availability. Restrictions follow Table V.
•	A complete Model Number must have the designated number of digits in each table.

Key Numbers	I	II	III	IV	V (Optional)	
003A50	W24	1	A	24	B6	Example

KEY NUMBER			Selection	Availability					
Type	Calibration Type	Wire Size							
Flanged	J	8 gage	003A50	↓					
		14 gage	003B50		↓				
	K	8 gage	005A50			↓			
		14 gage	005B50				↓		
Pipe	R	.02 in. (0,5 mm) diameter	006G50					↓	
	S	.02 in. (0,5 mm) diameter	007G50						↓
	K	8 gage	005A52			↓			

TABLE I - PROTECTING TUBE

Maximum Temperature		Material	Diameter				Length										
			Inside		Outside		Min.		Max.								
°F	°C		In.	mm	In.	mm	In.	mm	In.	mm							
1000	538	Carbon Steel	.36	9,2	.54	13,7	12	305	48	1220	B __			•		•	
1200	649	Stainless Steel	.36	9,2	.54	13,7	12	305	48	1220	S __			•			
1300	704	Carbon Steel	.62	15,8	.84	21,3	12	305	48	1220	W __	•					
1600	871	Inconel	.62	15,8	.84	21,3	12	305	48	1220	M __	•		•			
		Cast Iron	.88	22,3	1.62	41,2	12	305	36	915	D __	•		•			
1700	927	Nickel	.62	15,8	.88	21,3	12	305	48	1220	L __			•			



Fill in blank with length of hot leg in six inch increments.

Table I, continued next page.

Availability

007G50

006G50

005B __

005A __

003B50

003A50

TABLE I - PROTECTING TUBE (continued)

TABLE I - PROTECTING TUBE (continued)											Selection			50	52	50	51				
Maximum Temperature		Material	Diameter				Length														
			Inside		Outside		Min.		Max.												
°F	°C		In.	mm	In.	mm	In.	mm	In.	mm										In.	mm
1800	982	Nickel	.38	9,7	.75	19,0	12	305	24	610	LA __					•					
			.62	15,8	1.25	31,8	12	305	30	762	LA __				•	•					
		Resistat	.38	9,7	.75	19,0	12	305	24	610	P __						•				
			.56	14,2	1.00	25,4	12	305	30	762	P __					•					
		Inconel	.62	15,8	.84	21,3	12	305	48	1220	M __					•	•				
			Stainless Steel	.36	9,1	.54	13,7	12	305	48	1220	S __									
2000	1093	Sillramic	.69	17,5	1.06	26,7	12	305	18	457	C __							•			
			.44	11,0	.68	17,0	12	305	48	1220	R __							•			
			.68	17,0	.94	23,8	12	305	48	1220	R __					•					
2900	1593	Sillramic	.44	11,0	.68	17,0	12	305	48	1220	R __								•	•	

↑
Fill in blank with length of hot leg in six inch increments.

TABLE II - HEAD

Type	Thread								
General Purpose	1/2" (12,7 mm) NPT	1	•	•	•	•	•	•	•
Screw Cover	1/2" (12,7 mm) NPT	3	•	•	•	•	•	•	•
	3/4" (19 mm) NPT	4	•	•	•	•	•	•	•

TABLE III - MOUNTING

No Selection		0	•	•	•	•	•	•	•
Adjustable Flange	On Hot Leg	A	•	•	d	•	d		
	On Cold Leg	B	•	•	•	•	•	•	•

TABLE IV - COLD LEG LENGTH

Material	Minimum Length Inches (mm)	Maximum Length Inches (mm)							
1/2" Standard Pipe Size	12 (305)	48 (1219)	-	•	•	•	•	•	•
Carbon Steel	13 (305)	36 (914)	-						

↑
Fill in blank with length of hot leg in six inch increments.

TABLE V - OPTIONS

Conduit Outlet Position	Left	A1	•	•	•	•	•	•	•
	Top	A2	•	•	•	•	•	•	•
	Bottom	A3	•	•	•	•	•	•	•
Premium Grade Wire - Single Element		B6	•	•	•	•	•		
Vented Tube		C1						•	•

RESTRICTIONS

Restriction		Available Only With		Not Available With
Letter	Table	Selection	Table	Selection
d			I	R