

**Table 2 -- Temperature Ranges** \*Ranges over 350°F come with 316SS Capillary only.

Code	°F Range	Code	°F and °C Ranges
20	-40 TO 60°F	21	-40 TO 60°F & -40 TO 15°C
30	-40 TO 110°F	31	-40 TO 110°F & -40 TO 40°C
32	-20 TO 120°F	33	-20 TO 120°F & -30 TO 50°C
72	0 TO 180°F	73	0 TO 180°F & -20 TO 80°C
49	0 TO 150°F	79	0 TO 150°F & -15 TO 65°C
80	20 TO 220°F	81	20 TO 220°F & 0 TO 105°C
50	40 TO 240°F	51	40 TO 240°F & 0 TO 115°C
56	0 TO 250°F	57	0 TO 250°F & -20 TO 120°C
60	30 TO 300°F	61	30 TO 300°F & 0 TO 150°C
68*	100 TO 350°F	66	100 TO 350°F & 40 TO 175°C
70*	200 TO 450°F	71*	200 TO 450°F & 100 TO 230°C

**Table 3 -- Capillary & Bulbs**

Code	Capillary & Bulb Material	Capillary Protection
A	Copper	None
C	Copper	Bronze Braid
D	316 SS	None
E	316 SS	S.S. Armor

**Table 4 -- Capillary Length**

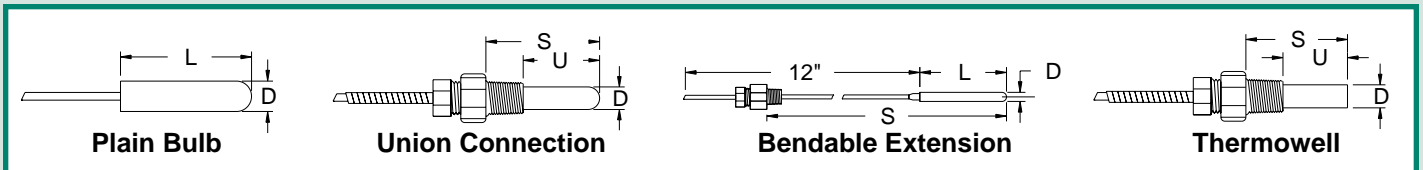
**Specify Length in feet.**  
**Standard Length = 5 Ft.**  
**Available Capillary Length: 1-100Ft.**  
 Note: Capillary Lengths over 5 feet affect bulb length.  
 See table at bottom of page.

**Table 5 -- Process Connection**

Code	Connection Type	Material	
J1	None (Plain Bulb)	Brass - (For Existing Brass Well) 316 SS - (For Existing Stainless Well)	
J2	Jam Nut Only		
J3	Jam Nut Only		
K2	1/2" NPT Union	Brass	
L2	1/2" NPT Union	316 SS	
M2	1/2" NPT Sliding Union on Bendable Extension	316 SS - (Only Avail. with 316 SS Capillary)	
		<b>Brass</b>	
		<b>316 SS</b>	
		<b>1/2 NPT</b>	<b>3/4 NPT</b>
		<b>1/2 NPT</b>	<b>3/4 NPT</b>
For 1-10 ft. Capillary (bulb #1)		<b>12B</b>	<b>13B</b>
For 11-25 ft. Capillary (bulb #2)		<b>22B</b>	<b>23B</b>
For 26-50 ft. Capillary (bulb #3)		<b>32B</b>	<b>33B</b>
For 51-75 ft. Capillary (bulb #4)		<b>42B</b>	<b>43B</b>
For 76-100 ft. Capillary (bulb #5)		<b>52B</b>	<b>53B</b>

**Thermowells For Vapor Actuated Bulbs (except M2)**

**Bulb Configurations**



**Standard Bulb Dimensions (inches)**

CAPILLARY LENGTH	PLAIN BULB		UNION CONNECTION			THERMOWELL			BENDABLE EXT.		
	L	D	U	S	D	U	S	D	L	S	D
1-10 ft. (bulb #1)	2 <sup>1</sup> / <sub>2</sub> (1-5ft.) 3 <sup>7</sup> / <sub>16</sub> (6-10ft)	3/8	1 <sup>13</sup> / <sub>16</sub>	2 <sup>3</sup> / <sub>8</sub>	7/16	1 <sup>15</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>2</sub>	9/16	2 <sup>1</sup> / <sub>2</sub> (1-5ft.) 3 <sup>7</sup> / <sub>16</sub> (6-10ft)	3 - 13 4 - 14	3/8
11-25 ft. (bulb #2)	3 <sup>7</sup> / <sub>16</sub>	3/8	2 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>4</sub>	7/16	2 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	9/16	3 <sup>7</sup> / <sub>16</sub>	4 - 14	3/8
26-50 ft. (bulb #3)	4 <sup>7</sup> / <sub>8</sub>	3/8	4 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>4</sub>	7/16	4 <sup>5</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	9/16	4 <sup>7</sup> / <sub>8</sub>	5 - 15	3/8
51-75 ft. (bulb #4)	7 <sup>7</sup> / <sub>8</sub>	3/8	6 <sup>1</sup> / <sub>2</sub>	7 <sup>1</sup> / <sub>4</sub>	7/16	6 <sup>5</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>8</sub>	9/16	7 <sup>7</sup> / <sub>8</sub>	8 - 18	3/8
76-100 ft. (bulb #5)	10 <sup>7</sup> / <sub>8</sub>	3/8	8 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>4</sub>	7/16	8 <sup>5</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>8</sub>	9/16	10 <sup>7</sup> / <sub>8</sub>	11 - 21	3/8