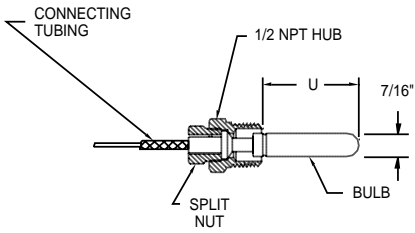
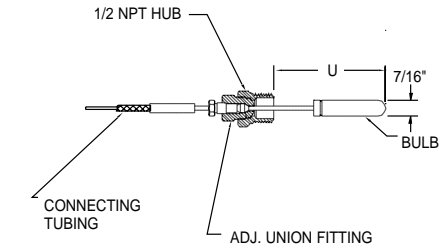
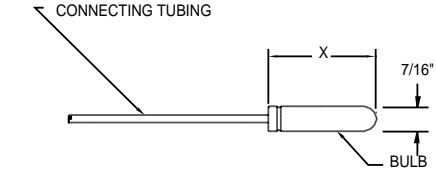
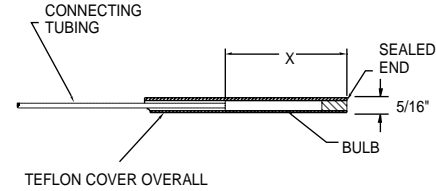
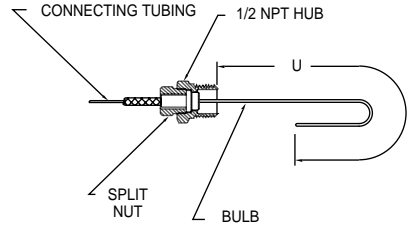


# Dial Thermometers

## Thermal System Selection

### Remote Mounted Thermometers

Bulb and Capillary Style	Order Code	Connection Style & Material	Bulb Material	Capillary Tubing Material	Available Actuation Types		
					Vapor	Liquid	Mercury
<b>Union Connection</b> 	<b>B01</b>	Brass, 1/2 NPT	Vapor: Copper Liquid: Brass	Copper with Bronze Braided Armor	Yes	Yes	N/A
	<b>B10</b>	Stainless Steel, 1/2 NPT	Stainless Steel	Stainless Steel	Yes	Yes	Yes
<b>Adjustable Union Connection</b> 	<b>B02</b>	Brass, 1/2 NPT	Vapor: Copper Liquid: Brass	Copper with Bronze Braided Armor	Yes	Yes	N/A
	<b>B04*</b>	Stainless Steel, 1/2 NPT	Stainless Steel	Stainless Steel	Yes	Yes	Yes
<b>Plain Bulb</b> 	<b>B05</b>	None	Vapor: Copper Liquid: Brass	Copper with Bronze Braided Armor	Yes	Yes	N/A
	<b>B06</b>	None	Stainless Steel	Stainless Steel	Yes	Yes	Yes
<b>Teflon Covered Bulb</b> 	<b>B08</b>	None	Vapor: Copper Liquid: Brass with Teflon Covering	Bronze Braided Armor with Teflon Covering	Yes	Yes	N/A
	<b>B07</b>	None	Stainless Steel with Teflon Covering	Stainless Steel with Teflon Covering	Yes	Yes	Yes
<b>Averaging Bulb</b> 	<b>B11</b>	Brass, 1/2 NPT	Copper	Copper with Bronze Braided Armor	N/A	Yes	N/A
	<b>B12</b>	Stainless Steel, 1/2 NPT	Stainless Steel	Stainless Steel	N/A	Yes	N/A

\*Ranges over 450°F (232°C), one-time adjustment only.

## Minimum Bulb Insertion Length (U/X)

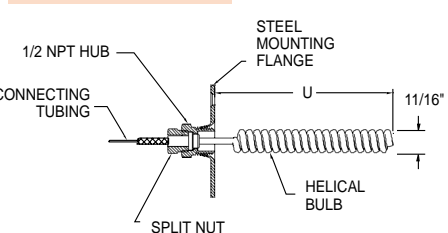
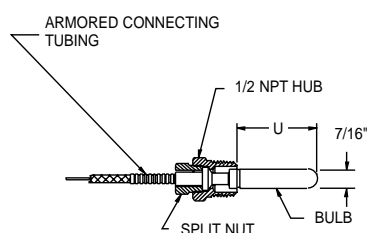
Vapor Actuated			Liquid Actuated	Mercury Actuated		
Capillary Length			All	Temperature Range		
5 to 10 Feet	15 to 50 Feet	55 Feet and Over		-40° to 120°F 0° to 100°F 0° to 160°F 30° to 180°F	30° to 240°F 0° to 300°F 0° to 400°F	0° to 600°F 150° to 750°F 200° to 1000°F
2"	3 3/4"	5 5/8"	2"	N/A	N/A	N/A
2"	3 3/4"	5 5/8"	2"	5 1/2"	3 3/4"	1 3/4"
1 3/4"	3 1/2"	5 1/4"	1 3/4"	N/A	N/A	N/A
(Adjustable up to 24")			(Adjustable up to 24")			
1 3/4"	3 1/2"	5 1/4"	1 3/4"	5 1/2"	3 3/4"	1 3/4"
(Adjustable up to 24")			(Adjustable up to 24")			(Adjustable up to 24")
2"	3 3/4"	5 5/8"	2"	N/A	N/A	N/A
2"	3 3/4"	5 5/8"	2"	5 3/4"	4"	2"
15"	15"	15"	2 3/4"	N/A	N/A	N/A
15"	15"	15"	2 3/4"	20 7/8"	13 1/2"	N/A
N/A	N/A	N/A	Approximately 8 feet	N/A	N/A	N/A
N/A	N/A	N/A	Approximately 8 feet	N/A	N/A	N/A

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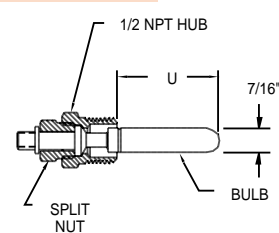
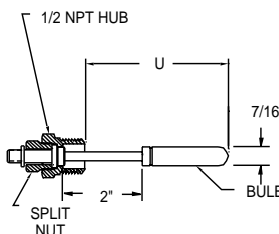
# Dial Thermometers

## Thermal System Selection continued

### Remote Mounted Thermometers

Bulb and Capillary Style	Order Code	Connection Style & Material	Bulb Material	Capillary Tubing Material	Available Actuation Types		
					Vapor	Liquid	Mercury
<b>Air Sensitive Bulb</b> 	<b>B13</b>	Steel Mounting Flange, Brass Fittings	Copper	Copper with Bronze Braided Armor	Yes	Yes	N/A
	<b>B14</b>	Steel Mounting Flange, Brass Fittings	Stainless Steel	Stainless Steel	N/A	N/A	Yes
<b>Union Connection with Spiral Armor</b> 	<b>B15</b>	Brass, 1/2 NPT	Vapor: Copper Liquid: Brass	Copper with Bronze Braid and Stainless Steel Spiral Armor	Yes	Yes	N/A
	<b>B16</b>	Stainless Steel, 1/2 NPT	Stainless Steel	Stainless Steel with Stainless Steel Spiral Armor	Yes	Yes	Yes

### Direct Mounted Thermometers

Bulb and Capillary Style	Order Code	Connection Style & Material	Bulb Material	Capillary Tubing Material	Available Actuation Types		
					Vapor	Liquid	Mercury
<b>Union Connection</b> 	<b>B31</b>	Brass, 1/2 NPT	Vapor: Copper Liquid: Brass	None	Yes	Yes	N/A
	<b>B32</b>	Stainless Steel, 1/2 NPT	Stainless Steel	None	Yes	Yes	Yes
<b>Union Connection with Bendable Extension</b> 	<b>B33</b>	Brass, 1/2 NPT	Vapor: Copper Liquid: Brass	None	Yes	Yes	N/A
	<b>B34</b>	Stainless Steel, 1/2 NPT	Stainless Steel	None	Yes	Yes	Yes

## Minimum Bulb Insertion Length (U/X)

Vapor Actuated			Liquid Actuated	Mercury Actuated		
Capillary Length			All	Temperature Range		
5 to 10 Feet	15 to 50 Feet	55 Feet and Over		-40° to 120°F 0° to 100°F 0° to 160°F 30° to 180°F	30° to 240°F 0° to 300°F 0° to 400°F	0° to 600°F 150° to 750°F 200° to 1000°F
6"	6"	6"	8"	N/A	N/A	N/A
N/A	N/A	N/A	N/A	12"	12"	12"
2"	3 <sup>3</sup> / <sub>4</sub> "	5 <sup>5</sup> / <sub>8</sub> "	2"	N/A	N/A	N/A
2"	3 <sup>3</sup> / <sub>4</sub> "	5 <sup>5</sup> / <sub>8</sub> "	2"	5 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>2</sub> "	1 <sup>3</sup> / <sub>4</sub> "

Vapor Actuated	Liquid Actuated	Mercury Actuated		
All	All	Temperature Range		
All	All	-40° to 120°F 0° to 100°F 0° to 160°F 30° to 180°F	30° to 240°F 0° to 300°F 0° to 400°F	0° to 600°F 150° to 750°F 200° to 1000°F
2"	2"	N/A	N/A	N/A
2"	2"	1 <sup>3</sup> / <sub>4</sub> "	3 <sup>3</sup> / <sub>4</sub> "	5 <sup>1</sup> / <sub>2</sub> "
3 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>2</sub> "	N/A	N/A	N/A
3 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>2</sub> "	7 <sup>1</sup> / <sub>2</sub> "	5 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>2</sub> "