

FAQ's - Bulb & Capillary Thermostats

Q. What Capillary length is available?

A. Standard is 36 inches (915 mm).

Customs can range from:

In Copper - 18 inches to 8 feet (457 mm to 2438mm)

In Stainless Steel - 18 inches to 4.6 feet (457 mm to 1420mm)

Q. How many inches of capillary should I immerse in the media?

A. Recommended is 2 inches (50 mm).

If less than or more than 2 inches **may vary from actual calibrated set point.** Manufacturing calibrates at 2 inches immersed.

Q. What type of media is used in testing bulb and capillary thermostats?

A. 90°C (194°F) and lower the media is water.

91°C to 400°C (196°F to 752°F) the media is a salt bath.

Q. What is the rate of temperature rise while testing bulb and capillaries?

A. 1°C to 1.5°C (2°F to 3°F) per Minute.

Q. At what rate of heat increase is the bulb and capillary most accurate?

A. 4°C (7°F) per minute.

The faster rate of temperature rise the less accurate the thermostat will be (another term for this would be **Thermal Delay or Thermal Lag**).

Q. What is the differential (also referred to hysteresis) available on bulb and capillaries?

A. Closest is 2°C (3°F to 4°F) on lower temperatures and 9°C (16°F) on high temperatures.

Widest – Varies on temperature setting

On 4-40°C (**40-104°F**) Max. Diff. Is 4-5°C (**7-9°F**)

On 30-90°C (**85-195°F**) Max. Diff. Is 9-12°C (**16-21°F**)

On 50-300°C (**120-572°F**) Max. Diff. Is 25-30°C (**45-54°F**)

Q. Is the Stainless Steel the used on Stainless Steel Bulb and Capillary 304?

A. Yes, it is 304 stainless steel.

Q. Does the bulb and capillary lose accuracy with longer capillary lengths?

A. No

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