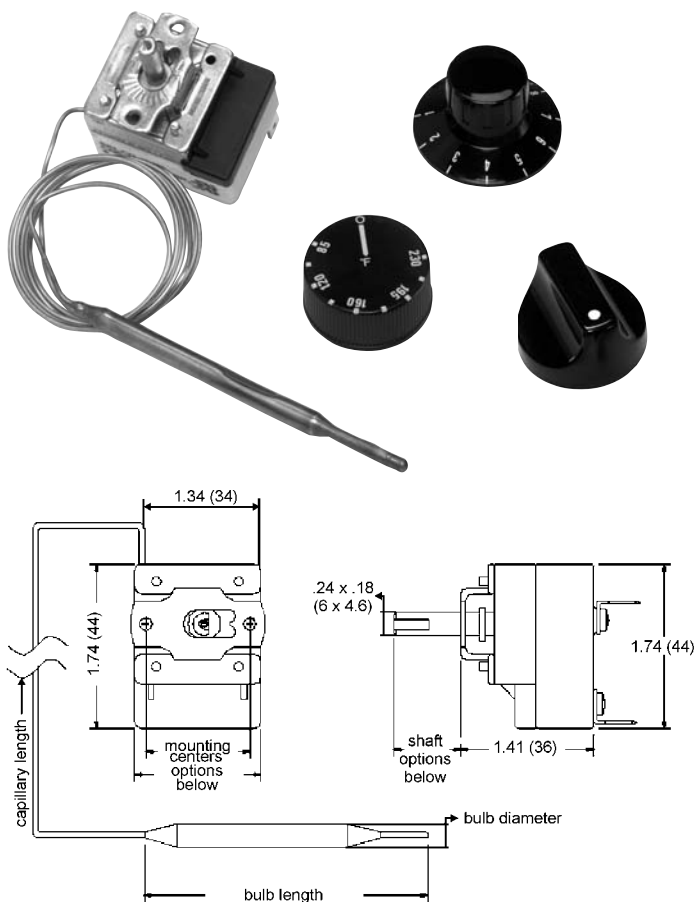


# Bulb & Capillary Thermostats

## CAP Series - Automatic Reset



| Shaft Length                                                    |    | Mounting Bracket Center Holes |                |
|-----------------------------------------------------------------|----|-------------------------------|----------------|
| Shaft diameter $\varnothing 24$ ( $\varnothing 6$ ) x .18 (4.6) |    |                               |                |
| inches                                                          | mm | inches                        | mm             |
| 0.52                                                            | 13 | 1.1                           | 28/M4 thread   |
| 0.71                                                            | 18 | 1.3                           | 33/6-32 thread |
| 0.87                                                            | 22 | 1.7                           | 44/6-32 thread |
| •                                                               | •  | •                             | •              |

### FEATURES

- Stock models
- 20 Amps capacity
- All agency approvals

### APPLICATIONS

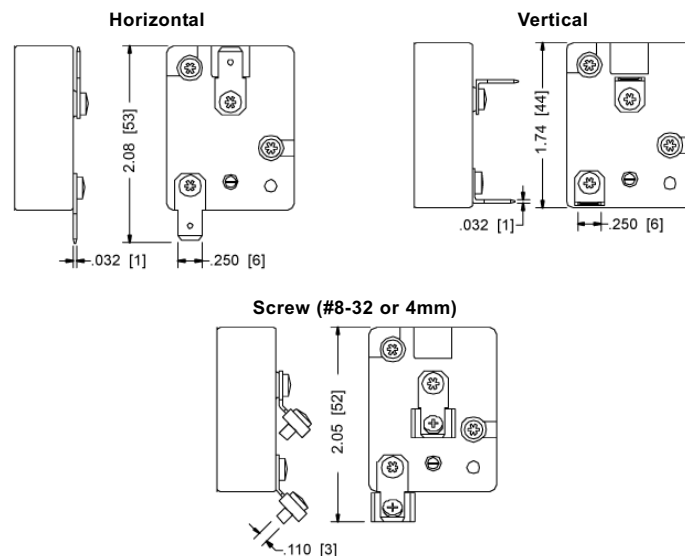
- Heaters
- Test systems
- Food service equipment

Selco's bulb and capillary thermostats have a fluid filled bulb. When temperature rises, the bulb fluid expands via a capillary tube to an expandable diaphragm within the remote thermostat set point. The thermostats are compact and have ceramic bodies. Accessories include knobs and dials that allow selection of the temperature set point.

### SPECIFICATIONS

|                               |                                                                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Temperature range</b>      | 32°F to 752°F (0°C to 400°C)                                                                                                                                                                                       |
| <b>UL electrical ratings</b>  | 120/240VAC, 20 Amps, Resistive, 100,000 Cycles<br>120VAC, 5 Amps, Inductive, 100,000 Cycles<br>240VAC, 2.9 Amps, Inductive, 100,000 Cycles<br>1/4 Horsepower, 100,000 Cycles<br>125VA (pilot duty), 100,000 Cycles |
| <b>VDE electrical ratings</b> | 250VAC, 5 Amps, Inductive<br>400VAC, 1 Amp, Inductive<br>10,000 Cycles                                                                                                                                             |
| <b>Options can include</b>    | Compression fittings for mounting, screw terminals, quick connects, gold contacts, SPDT, earth terminals, dial layouts, plastic coating to prevent moisture                                                        |
| <b>Approvals</b>              | UL Recognized File No. E168164(S), XAPX2<br>C-UL Recognized File No. E168164(S), XAPX8<br>E.C. Declaration of Conformity<br>RoHS Compliant                                                                         |
| <b>European</b>               | VDE, SEMKO, KEMA                                                                                                                                                                                                   |

### Terminal Options



It is the customer's sole responsibility to specify and determine the suitability of a particular control or component based on their unique individual applications and requirements

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# Bulb & Capillary Thermostats

## CAP Series - Automatic Reset

Models available from stock - subject to availability

| Model Number  | Temperature Range (°F) | Set Point  | Switch | Material        | Capillary Length (inches) | Bulb Length (inches) | Bulb Diameter (inches) |
|---------------|------------------------|------------|--------|-----------------|---------------------------|----------------------|------------------------|
| CAP-40-105-R  | 40-105                 | Adjustable | SPST   | Copper          | 60                        | 6.0                  | .24                    |
| CAP-56-120-R  | 56-120                 | Adjustable | SPST   | Stainless Steel | 60                        | 7.0                  | .20                    |
| CAP-57-104    | 57-104                 | Adjustable | SPST   | Copper          | 43                        | 4.7                  | .250                   |
| CAP-60-150-SS | 60-150                 | Adjustable | SPST   | Stainless Steel | 16                        | 4.5                  | .19                    |
| CAP-60-450    | 60-450                 | Adjustable | SPST   | Stainless Steel | 36                        | 3.0                  | .20                    |
| CAP-75-140-R  | 75-140                 | Adjustable | SPST   | Stainless Steel | 36                        | 7                    | .20                    |
| CAP-85-195    | 85-195                 | Adjustable | SPST   | Copper          | 36                        | 3.6                  | .24                    |
| CAP-85-230-R  | 85-230                 | Adjustable | SPST   | Copper          | 36                        | 3.3                  | .24                    |
| CAP-100-320   | 100-320                | Adjustable | SPST   | Stainless Steel | 36                        | 4.5                  | .19                    |
| CAP-120-392-1 | 120-392                | Adjustable | SPDT   | Stainless Steel | 36                        | 4.8                  | .19                    |
| CAP-120-428   | 120-428                | Adjustable | SPST   | Copper          | 36                        | 5.1                  | .20                    |
| CAP-120-570   | 120-570                | Adjustable | SPST   | Copper          | 36                        | 3.5                  | .20                    |
| CAP-122-482   | 122-482                | Adjustable | SPST   | Copper          | 36                        | 3.6                  | .20                    |
| CAP-140-475   | 140-475                | Adjustable | SPST   | Copper          | 21                        | 4.9                  | .20                    |
| CAP-140-752   | 140-752                | Adjustable | SPST   | Stainless Steel | 17                        | 6.2                  | .118                   |
| CAP-150-285   | 150-285                | Adjustable | SPST   | Copper          | 36                        | 4.7                  | .250                   |
| CAP-176-400   | 176-400                | Adjustable | SPST   | Copper          | 47                        | 4.6                  | .24                    |

| Standard Temperature Ranges | Tolerance       | Differential         |
|-----------------------------|-----------------|----------------------|
| 4-40°C (40-104°F)           | ±2°C (±3.6°F)   | 1.5°±1C (2.7°±1.8°F) |
| 30-90°C (85-195°F)          | ±3°C (±5.4°F)   | 4°±2°C (7.2°±3.6°F)  |
| 30-110°C (85-230°F)         | ±4°C (±7.2°F)   | 4°±2°C (7.2°±3.6°F)  |
| 50-200°C (122-392°F)        | ±8°C (±14.4°F)  | 7°±4°C (12.6°±7.2°F) |
| 50-220°C (122-428°F)        | ±8°C (±14.4°F)  | 7°±4°C (12.6°±7.2°F) |
| 50-250°C (122-482°F)        | ±9°C (±16.2°F)  | 7°±4°C (12.6°±7.2°F) |
| 50-300°C (122-570°F)        | ±9°C (±16.2°F)  | 7°±4°C (12.6°±7.2°F) |
| 60-400°C (140-752°F)        | ±12°C (±21.6°F) | 9°±4°C (16.2°±7.2°F) |

| Shaft Length<br>Shaft diameter ø24 (6) x .18 (4.6) |    | Mounting Bracket<br>Center Holes |                |
|----------------------------------------------------|----|----------------------------------|----------------|
| inches                                             | mm | inches                           | mm             |
| 0.52                                               | 13 | 1.1                              | 28/M4 thread   |
| 0.71                                               | 18 | 1.3                              | 33/6-32 thread |
| 0.87                                               | 22 | 1.7                              | 44/6-32 thread |
| -                                                  | -  | •                                | •              |

### Standard Mechanical Specifications

| Temperature Ranges |        | Max. Ambient Exposure of Thermostat Case |     | Max. Working Temperature of the Bulb |     | Diameter of Copper Bulb |     |          |     | Diameter of Stainless Steel Bulb |     |          |    | Capillary Length |     |
|--------------------|--------|------------------------------------------|-----|--------------------------------------|-----|-------------------------|-----|----------|-----|----------------------------------|-----|----------|----|------------------|-----|
|                    |        |                                          |     |                                      |     | Length                  |     | Diameter |     | Length                           |     | Diameter |    |                  |     |
| °F                 | °C     | °F                                       | °C  | °F                                   | °C  | inches                  | mm  | inches   | mm  | inches                           | mm  | inches   | mm | inches           | mm  |
| 140-752            | 60-400 | 302                                      | 150 | 752                                  | 400 | ●                       | ●   | ●        | ●   | 6.3                              | 160 | .12      | 3  | 35.4             | 900 |
| 120-570            | 50-300 | 302                                      | 150 | 600                                  | 315 | 9.6                     | 245 | 0.12     | 3.1 | 7.6                              | 195 | .12      | 3  | 35.4             | 900 |
| 120-570            | 50-300 | 302                                      | 150 | 600                                  | 315 | 6                       | 152 | 0.15     | 4   | ●                                | ●   | ●        | ●  | 35.4             | 900 |
| 120-570            | 50-300 | 302                                      | 150 | 600                                  | 315 | 3.4                     | 87  | 0.19     | 5   | 3                                | 76  | .19      | 5  | 35.4             | 900 |
| 120-428            | 50-220 | 302                                      | 150 | 448                                  | 231 | 5                       | 127 | 0.19     | 5   | 4                                | 100 | .19      | 5  | 35.4             | 900 |
| 120-392            | 50-200 | 302                                      | 150 | 410                                  | 210 | 3.7                     | 96  | 0.24     | 6   | 4.3                              | 109 | .19      | 5  | 35.4             | 900 |
| 40-105             | 4-40   | 176                                      | 80  | 111                                  | 44  | 6                       | 153 | 0.24     | 6   | 7                                | 180 | .19      | 5  | 35.4             | 900 |
| 85-195             | 30-90  | 212                                      | 100 | 210                                  | 99  | 3.6                     | 92  | 0.24     | 6   | 4.3                              | 109 | .19      | 5  | 35.4             | 900 |
| 85-230             | 30-110 | 212                                      | 100 | 249                                  | 121 | 3                       | 76  | 0.24     | 6   | 3.5                              | 90  | .19      | 5  | 35.4             | 900 |
| 85-248             | 30-120 | 212                                      | 100 | 270                                  | 132 | 3.6                     | 92  | 0.24     | 6   | 2.9                              | 75  | .19      | 5  | 35.4             | 900 |
| 85-302             | 30-150 | 212                                      | 100 | 316                                  | 158 | 4.1                     | 106 | 0.24     | 6   | ●                                | ●   | ●        | ●  | 35.4             | 900 |

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