How to Size a Sensor

To determine the sensor length ("L" dimension) use one of the formulas listed below. Be sure to select the appropriate configuration. The definition of the dimensions are:

- \( L \) = Sensor Length (refer to specific product bulletin for more details)
- \( B \) = Extension Length (if no extension \( B = 0 \))
- \( A \) = Thermowell Bore Depth or Desired Insertion Length

**Spring-Loaded Sensors**

**Model 305 (All Head Codes)**

- **Direct Assembly** \( L = A \)
- **Union-Nipple** \( L = A + B \)
- **Nipple-Union** \( L = A \)
Spring-Loaded Sensors

Model 312 (All Head Codes EXCEPT Code 3)

Direct Assembly  \( L = A + B + 1.5" \)
(\( B = 0 \) for close nipple)

Nipple-Union for use with Protection Tubes  \( L = A + B + 1.5" \)

Head Extension Style F

Nipple - Union - Nipple  \( L = A + B + 1.5" \)

Head Extension Style H

Head Extension Style G
**Spring Loaded Sensors**

**Models 301/304 (For Head Code 3)**

**Direct Assembly**

\[ L = A + B + 0.3" \]

\[ B = 0 \text{ for close nipple} \]

**Nipple-Union-Nipple**

\[ L = A + B + 0.3" \]

**Head Extension Style F**

**Nipple Union (for Use with Protection Tubes)**

\[ L = A + B + 0.3" \]

**Head Extension Style G**

**Head Extension Style H**