Ultra HIGH Bandwidth

The ZO Ultra High Bandwidth Series takes advantage of the ZIP® scalable architecture to arrive at an ultra-compact design with 0.50 nH and 0.60 nH inductance tailor made for high frequency testing.

Mechanical
- Pitch: .016 (0.40)
- Recommended Travel: .018 (0.46)
- Full Travel: .020 (0.50)
- Test Height: .059 (1.51)
- Mechanical Life*: 200,000 cycles
- Operating Temperature: -55°C to +155°C

Spring Force in oz. (grams)

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Test Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>.66 (19)</td>
</tr>
<tr>
<td>High</td>
<td>.96 (27)</td>
</tr>
</tbody>
</table>

Electrical (Static Conditions)
- Current Rating DC: 2.5 amps
- Average DC Probe Resistance**: <90 mOhms
- Self Inductance (Ls): 0.50 nH
- Capacitance (Cc): 0.030 pF
- Bandwidth @ -1dB: >30.0 GHz

Materials and Finishes
- Plunger DUT: HyperCore™
- Plunger HIB: BeCu, Gold plated over hard Nickel
- Spring: Stainless Steel, Gold plated

Tip Style - DUT

<table>
<thead>
<tr>
<th>Series</th>
<th>Size</th>
<th>Tip Style</th>
<th>Spring Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z0</td>
<td>040</td>
<td>RHJ</td>
<td>DUT</td>
</tr>
</tbody>
</table>

Tip Style - HIB

| J      |

Mechanical
- Pitch: .020 (0.50)
- Recommended Travel: .019 (0.48)
- Full Travel: .022 (0.56)
- Test Height: .059 (1.51)
- Mechanical Life*: 500,000 cycles
- Operating Temperature: -55°C to +155°C

Spring Force in oz. (grams)

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Test Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>.65 (18)</td>
</tr>
<tr>
<td>High</td>
<td>1.11 (31)</td>
</tr>
</tbody>
</table>

Electrical (Static Conditions)
- Current Rating DC: 2.88 amps
- Average DC Probe Resistance**: <90 mOhms
- Self Inductance (Ls): 0.60 nH
- Capacitance (Cc): 0.03 pF
- Bandwidth @ -1dB: >40.0 GHz

Materials and Finishes
- Plunger DUT: HyperCore™
- Plunger HIB: BeCu with proprietary plating
- Spring: Stainless Steel, Gold plated

Tip Style - DUT

| B | L | D | R | Y |

Tip Style - HIB

| J |

Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.
The ZIP® Z High Bandwidth Series yields the highest and most stable bandwidth for its package size. The high performance provided by these contacts makes the Z series a perfect choice for the most demanding test applications. High Bandwidth probes are available in 0.4mm and 0.5mm pitches. The Z series is offered in two DUT-side plunger material choices: HyperCore for high volume production applications and BeCu for burn-in or low volume applications.

**Mechanical**
- Pitch: 0.16 (0.40)
- Recommended Travel: 0.25 (0.64)
- Full Travel: 0.28 (0.71)
- Test Height: 0.15 (2.67)
- Mechanical Life*: HyperCore DUT plunger: 500,000 cycles, BeCu DUT plunger: 50,000 cycles
- Operating Temperature: -55°C to +155°C
- Spring Force in oz. (grams): 1.20 (34)

**Electrical (Static Conditions)**
- Current Rating DC: 2.0 amps
- Average DC Probe Resistance**: <65 mOhms
- Self Inductance (Ls): 1.07 nH
- Capacitance (Cc): 0.21 pF
- Bandwidth @ -1dB: 30.0 GHz

**Materials and Finishes**
- Plunger DUT: HyperCore™, BeCu Gold plated
- Plunger HIB: BeCu with proprietary plating
- Spring: Stainless Steel, Gold plated

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*Life specifications are based on lab results but are dependent on cleaning frequency and the specific customer application, including DUT materials, handler kit, maintenance, etc.
**Contact resistance will increase over time due to solder build-up and wear.

**Tip Style - DUT HyperCore**
- Series: Z
- Size: 040
- Material: HyperCore™
- Tip Style: J

**Tip Style - DUT BeCu**
- Series: Z
- Size: 040
- Material: BeCu
- Tip Style: J

**Tip Style - HIB**
- Series: Z
- Size: 040
- Material: BeCu
- Tip Style: J
HIGH Bandwidth

The ZIP™ Z High Bandwidth Series yields the highest and most stable bandwidth for its package size. The high performance provided by these contacts makes the Z series a perfect choice for the most demanding test applications. High Bandwidth probes are available in .4mm and .5mm pitches. The Z series is offered in two DUT-side plunger material choices: HyperCore for high volume production applications and BeCu for burn-in or low volume applications.

**Mechanical**
- Pitch: .020 (0.50)
- Recommended Travel: .025 (0.64)
- Full Travel: .030 (0.76)
- Test Height: .110 (2.79)
- Mechanical Life*: HyperCore DUT plunger: 500,000 cycles, BeCu DUT plunger: 50,000 cycles
- Operating Temperature: -55°C to +155°C
- Spring Force in oz. (grams): 1.40 (40)

**Electrical (Static Conditions)**
- Current Rating DC: 2.8 amps
- Average DC Probe Resistance**: <65 mΩ
- Self Inductance (Ls): 1.01 nH
- Capacitance (Cc): 0.20 pF
- Bandwidth @ -1dB: 25.0 GHz

**Materials and Finishes**
- Plunger DUT: HyperCore™, BeCu Gold plated
- Plunger HIB: BeCu with proprietary plating
- Spring: Stainless Steel, Gold plated

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**Contact resistance will increase over time due to solder build-up and wear.

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Z-KELVIN

ECT’s ZIP™ Kelvin .4mm is ideal for voltage sensitive tests on array or peripheral devices requiring milliohm resistance measurements as well as high-power test applications.

### Mechanical
- **Pitch:** .016 (0.40)
- **Recommended Travel:** .025 (0.64)
- **Full Travel:** .028 (0.71)
- **Test Height:** .105 (2.67)
- **Mechanical Life***: 500,000 cycles
- **Operating Temperature:** -55°C to +155°C
- **Spring Force in oz. (grams):** 1.20 (34)

### Electrical (Static Conditions)
- **Current Rating DC:** 1.2 amps
- **Average DC Probe Resistance****: <70 mOhms
- **Self Inductance (Ls):** 1.0 nH
- **Capacitance (Cc):** 0.40 pF
- **Bandwidth @ -1dB:** 7.0 GHz

### Materials and Finishes
- **Plunger DUT:** HyperCore™
- **Plunger HIB:** BeCu with proprietary plating
- **Spring:** Stainless Steel, Gold plated

### Tip Style - DUT
- **K**
- **I**

### Tip Style - HIB
- **J**

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**Note:** Specifications are based on lab results but are dependent on cleaning frequency and the specific customer application, including DUT materials, handler kit, maintenance, etc. Contact resistance will increase over time due to solder build-up and wear.

*Life specifications are based on lab results but are dependent on cleaning frequency and the specific customer application, including DUT materials, handler kit, maintenance, etc. Contact resistance will increase over time due to solder build-up and wear.*
BTM
0.50 mm, 0.75 mm, 1.00 mm

Mechanical
Pitch: 0.019 (0.50)
Recommended Travel: 0.015 (0.38)
Full Travel: 0.020 (0.51)
Test Height: 0.098 (2.49)
Mechanical Life*: 500,000 cycles
Operating Temperature: -55°C to +155°C
Spring Force in oz. (grams): 1.10 (31)

Electrical (Static Conditions)
Current Rating: 2.5 amps
Average DC Probe Resistance**: <50 mOhms
Self Inductance (Ls): 0.95 nH
Capacitance (Cc): 0.28 pF
Bandwidth @ -1dB: 23.00 GHz

Materials and Finishes
Plunger: Heat-treated BeCu, Gold plated over hard Nickel or Primeguard 1 for NiPd solder or Primeguard 2 for Lead free solder
Barrel: Work-hardened BeCu, Gold plated over hard Nickel
Spring: Steel alloy, Gold plated over hard Nickel

BTM-075

Mechanical
Pitch: 0.030 (0.75)
Recommended Travel: 0.015 (0.38)
Full Travel: 0.020 (0.51)
Test Height: 0.103 (2.62)
Mechanical Life*: 500,000 cycles
Operating Temperature: -55°C to +155°C
Spring Force in oz. (grams): 1.00 (28)

Electrical (Static Conditions)
Current Rating: 2.9 amps
Average DC Probe Resistance**: <50 mOhms
Self Inductance (Ls): 0.77 nH
Capacitance (Cc): 0.25 pF
Bandwidth @ -1dB: 15.84 GHz

Materials and Finishes
Plunger: Heat-treated BeCu, Gold plated over hard Nickel or Primeguard 1 for NiPd solder or Primeguard 2 for Lead free solder
Barrel: Work-hardened Brass, Gold plated over hard Nickel
Spring: Steel alloy, Gold plated over hard Nickel

BTM-100

Mechanical
Pitch: 0.040 (1.00)
Recommended Travel: 0.028 (0.71)
Full Travel: 0.030 (0.76)
Test Height: 0.136 (3.45)
Mechanical Life*: 500,000 cycles
Operating Temperature: -55°C to +155°C
Spring Force in oz. (grams): 1.40 (39)

Electrical (Static Conditions)
Current Rating: 3.5 amps
Average DC Probe Resistance**: <50 mOhms
Self Inductance (Ls): 1.30 nH
Capacitance (Cc): 0.34 pF
Bandwidth @ -1dB: 10.00 GHz

Materials and Finishes
Plunger: Heat-treated BeCu, Gold plated over hard Nickel or Primeguard 1 for NiPd solder or Primeguard 2 for Lead free solder
Barrel: Work-hardened Brass, Gold plated over hard Nickel
Spring: Steel alloy, Gold plated over hard Nickel

Tip Style - DUT
B J L U

Tip Style - HIB
B J

Dimensions in inches (millimeters). Specifications subject to change without notice. Consult factory for other temperature requirements, and applications below -40°C. Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change. Availability is based on current levels of usage and demand.
Socket Design Considerations

- CSP series is captured between the socket body and retainer plate, with the barrel fixed in place.
- SCP Socket series is captured between the socket body and retainer plate, with the barrel sliding freely counter bore.
- Counter bore should not be too deep, and enable a minimum amount of preload against interface board.
- Body height and device cavity should be designed to prevent probe from being compressed shorter than test height.

** Mechanical **

- **Pitch:** .016 (0.40)
- **Recommended Travel:** .020 (0.51)
- **Full Travel:** .025 (0.64)
- **Test Height:** .217 (5.51)
- **Mechanical Life:** 250,000 cycles
- **Operating Temperature:** -55°C to +105°C
- **Spring Force in oz. (grams):** 0.85 (24)

** Electrical (Static Conditions) **

- **Current Rating:** 2.0 amps
- **Average DC Probe Resistance:** <100 mOhms
- **Self Inductance (Ls):** 1.71 nH
- **Capacitance (Cc):** 0.58 pF
- **Bandwidth @ -1dB:** 6.8 GHz

** Materials and Finishes **

- **Plunger DUT:** Heat-treated Steel or BeCu, Gold plated over hard Nickel
- **Plunger HIB:** Heat-treated Steel or BeCu, Gold plated over hard Nickel
- **Barrel:** Work-hardened Phosphorous Bronze, Gold plated over hard Nickel
- **Spring:** Music Wire, Gold plated

** Tip Style - DUT / HIB **

<table>
<thead>
<tr>
<th>B</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Tip Style - DUT" /></td>
<td><img src="image2" alt="Tip Style - HIB" /></td>
</tr>
</tbody>
</table>

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*Contact resistance will increase over time due to solder build-up and wear.

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### CSP5-18
- **Pitch:** 0.019 (0.50)
- **Recommended Travel:** 0.020 (0.51)
- **Full Travel:** 0.025 (0.64)
- **Test Height:** 0.214 (5.44)
- **Mechanical Life:** 500,000 cycles
- **Operating Temperature:** -55°C to +155°C
- **Spring Force in oz. (grams):** 0.7 (19.8)

#### Mechanical
- **Pitch:** 0.019 (0.50)
- **Recommended Travel:** 0.020 (0.51)
- **Full Travel:** 0.025 (0.64)
- **Test Height:** 0.214 (5.44)
- **Mechanical Life:** 500,000 cycles
- **Operating Temperature:** -55°C to +155°C
- **Spring Force in oz. (grams):** 0.7 (19.8)

#### Electrical (Static Conditions)
- **Current Rating:** 2 amps
- **Average DC Probe Resistance:** <150 mOhms
- **Self Inductance (Ls):** 1.5 nH
- **Capacitance (Cc):** 0.63 pF
- **Bandwidth @ -1dB:** 8.13 GHz

#### Materials and Finishes
- **Plunger DUT:** Heat-treated BeCu or Steel, Gold plated over hard Nickel or Primeguard 1 for NiPd solder or Primeguard 2 for Lead free solder
- **Plunger HIB:** Heat-treated BeCu or Steel, Hard Gold over Nickel
- **Barrel:** Work-hardened Phosphor Bronze, Gold plated over hard Nickel
- **Spring:** Steel alloy, Gold plated

### CSP5-20
- **Pitch:** 0.019 (0.50)
- **Recommended Travel:** 0.020 (0.51)
- **Full Travel:** 0.025 (0.64)
- **Test Height:** 0.234 (5.94)
- **Mechanical Life:** 500,000 cycles
- **Operating Temperature:** -55°C to +155°C
- **Spring Force in oz. (grams):** 1.2 (34.9)

#### Mechanical
- **Pitch:** 0.019 (0.50)
- **Recommended Travel:** 0.020 (0.51)
- **Full Travel:** 0.025 (0.64)
- **Test Height:** 0.234 (5.94)
- **Mechanical Life:** 500,000 cycles
- **Operating Temperature:** -55°C to +155°C
- **Spring Force in oz. (grams):** 1.2 (34.9)

#### Electrical (Static Conditions)
- **Current Rating:** 2 amps
- **Average DC Probe Resistance:** <150 mOhms
- **Self Inductance (Ls):** 1.65 nH
- **Capacitance (Cc):** 0.69 pF
- **Bandwidth @ -1dB:** 7.4 GHz

#### Materials and Finishes
- **Plunger DUT:** Heat-treated BeCu or Steel, Gold plated over hard Nickel or Primeguard 1 for NiPd solder or Primeguard 2 for Lead free solder
- **Plunger HIB:** Heat-treated BeCu or Steel, Hard Gold over Nickel
- **Barrel:** Work-hardened Phosphor Bronze, Gold plated over hard Nickel
- **Spring:** Steel alloy, Gold plated

### CSP5-22
- **Pitch:** 0.019 (0.50)
- **Recommended Travel:** 0.020 (0.51)
- **Full Travel:** 0.030 (0.76)
- **Test Height:** 0.254 (6.45)
- **Mechanical Life:** 500,000 cycles
- **Operating Temperature:** -55°C to +155°C
- **Spring Force in oz. (grams):** 1.2 (34.9)

#### Mechanical
- **Pitch:** 0.019 (0.50)
- **Recommended Travel:** 0.020 (0.51)
- **Full Travel:** 0.030 (0.76)
- **Test Height:** 0.254 (6.45)
- **Mechanical Life:** 500,000 cycles
- **Operating Temperature:** -55°C to +155°C
- **Spring Force in oz. (grams):** 1.2 (34.9)

#### Electrical (Static Conditions)
- **Current Rating:** 2 amps
- **Average DC Probe Resistance:** <150 mOhms
- **Self Inductance (Ls):** 1.79 nH
- **Capacitance (Cc):** 0.75 pF
- **Bandwidth @ -1dB:** 6.8 GHz

#### Materials and Finishes
- **Plunger DUT:** Heat-treated BeCu or Steel, Gold plated over hard Nickel or Primeguard 1 for NiPd solder or Primeguard 2 for Lead free solder
- **Plunger HIB:** Heat-treated BeCu or Steel, Hard Gold over Nickel
- **Barrel:** Work-hardened Phosphor Bronze, Gold plated over hard Nickel
- **Spring:** Steel alloy, Gold plated

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**Note:** Specifications are based on lab results but are dependent on cleaning frequency and the specific customer application, including DUT materials, handler kit, maintenance, etc. Contact resistance will increase over time due to solder build-up and wear.

**Consult factory for other temperature requirements, and applications below -40°C.**

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**CSP8**  
0.80 mm

### Dimensions in inches (millimeters): Specifications subject to change without notice.

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**Mechanical**

- **CSP8-15**
  - **Pitch:** .032 (0.80)
  - **Recommended Travel:** .030 (0.76)
  - **Full Travel:** .034 (0.86)
  - **Test Height:** .212 (5.38)
  - **Mechanical Life:** 500,000 cycles
  - **Operating Temperature:** -55°C to +155°C
  - **Spring Force in oz. (grams):** 1.0 (28.3)

- **CSP8-20**
  - **Pitch:** .032 (0.80)
  - **Recommended Travel:** .030 (0.76)
  - **Full Travel:** .035 (0.89)
  - **Test Height:** .262 (6.65)
  - **Mechanical Life:** 500,000 cycles
  - **Operating Temperature:** -55°C to +155°C
  - **Spring Force in oz. (grams):** 1.1 (31.2)

- **CSP8-25**
  - **Pitch:** .032 (0.80)
  - **Recommended Travel:** .030 (0.76)
  - **Full Travel:** .040 (1.02)
  - **Test Height:** .312 (7.92)
  - **Mechanical Life:** 500,000 cycles
  - **Operating Temperature:** -55°C to +155°C
  - **Spring Force in oz. (grams):** 1.1 (31.2)

**Electrical (Static Conditions)**

- **CSP8-15**
  - **Current Rating:** 3 amps
  - **Average DC Probe Resistance:** <150 mOhms
  - **Self Inductance (Ls):** 1.23 nH
  - **Capacitance (Cc):** 0.65 pF
  - **Bandwidth @ -1dB:** 9.23 GHz

- **CSP8-20**
  - **Current Rating:** 3 amps
  - **Average DC Probe Resistance:** <150 mOhms
  - **Self Inductance (Ls):** 1.52 nH
  - **Capacitance (Cc):** 0.81 pF
  - **Bandwidth @ -1dB:** 7.45 GHz

- **CSP8-25**
  - **Current Rating:** 3 amps
  - **Average DC Probe Resistance:** <150 mOhms
  - **Self Inductance (Ls):** 1.81 nH
  - **Capacitance (Cc):** 0.96 pF
  - **Bandwidth @ -1dB:** 6.25 GHz

**Materials and Finishes**

- **Plunger DUT:** Heat-treated BeCu or Steel, Gold plated over hard Nickel or Primeguard 1 for NiPd solder or Primeguard 2 for Lead free solder
- **Plunger HIB:** Heat-treated BeCu or Steel, Hard Gold over Nickel
- **Barrel:** Work-hardened Phosphor Bronze, Gold plated over hard Nickel
- **Spring:** Steel alloy, Gold plated

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**Tip Style - DUT / HIB**

- **B**
- **J**
- **L**
**Tip Style - DUT / HIB**

<table>
<thead>
<tr>
<th>B</th>
<th>L</th>
</tr>
</thead>
</table>

**Mechanical**
- Pitch: 0.039 (1.0)
- Recommended Travel: 0.030 (0.76)
- Full Travel: 0.040 (1.02)
- Test Height: 0.315 (8.00)
- Mechanical Life*: 500,000 cycles
- Operating Temperature: -55°C to +155°C
- Spring Force in oz. (grams): 2.0 (57)

**Electrical (Static Conditions)**
- Current Rating: 3 amps
- Average DC Probe Resistance**: <100 mOhms
- Self Inductance (Ls): 3.10 nH
- Capacitance (Cc): 0.95 pF
- Bandwidth @ -1dB: 3.80 GHz

**Materials and Finishes**
- Plunger DUT: Heat-treated BeCu, Gold plated over hard Nickel
- Plunger HIB: Heat-treated BeCu, Gold plated over hard Nickel
- Barrel: Work-hardened Phosphor Bronze, Gold plated over hard Nickel
- Spring: Steel alloy, Gold plated

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**Contact resistance will increase over time due to solders build-up and wear
**SCP**

0.80 mm, 1.00 mm, 1.27 mm

**Mechanical**

- **Pitch:** 
  - SCP-080: 0.032 (0.80)
  - SCP-100: 0.039 (1.00)
  - SCP-127: 0.050 (1.27)
- **Recommended Travel:** 
  - SCP-080: 0.030 (0.76)
  - SCP-100: 0.035 (0.89)
  - SCP-127: 0.030 (0.76)
- **Full Travel:** 
  - SCP-080: 0.035 (0.89)
  - SCP-100: 0.035 (0.89)
  - SCP-127: 0.035 (0.89)
- **Test Height:** 
  - SCP-080: 0.200 (5.08)
  - SCP-100: 0.200 (5.08)
  - SCP-127: 0.200 (5.08)
- **Mechanical Life:** 
  - SCP-080: 1,000,000 cycles
  - SCP-100: 1,000,000 cycles
  - SCP-127: 1,000,000 cycles
- **Operating Temperature:** 
  - -55°C to +155°C
  - -55°C to +155°C
  - -55°C to +155°C
- **Spring Force in oz. (grams):** 
  - SCP-080: 1.50 (42.5)
  - SCP-100: 1.50 (42.5)
  - SCP-127: 1.50 (42.5)

**Electrical (Static Conditions)**

- **Current Rating:** 
  - SCP-080: 5 amps
  - SCP-100: 7 amps
  - SCP-127: 9 amps
- **Average DC Probe Resistance:** 
  - SCP-080: <50 mOhms
  - SCP-100: <50 mOhms
  - SCP-127: <50 mOhms
- **Self Inductance (Ls):** 
  - SCP-080: 1.27 nH
  - SCP-100: 1.40 nH
  - SCP-127: 1.40 nH
- **Capacitance (Cc):** 
  - SCP-080: 0.12 pF
  - SCP-100: 0.66 pF
  - SCP-127: 0.79 pF
- **Bandwidth @ -1dB:** 
  - SCP-080: 6.0 GHz
  - SCP-100: 6.70 GHz
  - SCP-127: 7.6 GHz

**Materials and Finishes**

- **Plunger:** Heat-treated BeCu, Gold plated over hard Nickel
- **Barrel:** Work-hardened BeCu, Gold plated over hard Nickel
- **Spring:** Steel alloy, Gold plated

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**Tip Style - HIB**

- B
- J

**Tip Style - DUT**

- B
- U
- Z

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**Materials and Finishes**

- **Plunger:** Heat-treated BeCu, Gold plated over hard Nickel
- **Barrel:** Work-hardened BeCu, Gold plated over hard Nickel
- **Spring:** Steel alloy, Gold plated

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**Materials and Finishes**

- **Plunger:** Heat-treated BeCu, Gold plated over hard Nickel
- **Barrel:** Work-hardened BeCu, Gold plated over hard Nickel
- **Spring:** Steel alloy, Gold plated

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Dimensions in inches (millimeters). Specifications subject to change without notice.
Consult factory for other temperature requirements, and applications below -40°C.
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