FEATURES
- One piece bar stock construction
- Stamped with mill traceable material and heat number
- Testing and certifications including Wake Frequency Calculations per ASME PTC 19.3 TW-2016
- Standard or customized shank dimensions

TYPICAL USES
- Chemical and petrochemical plants
- Water and wastewater pressure control
- Pharmaceutical / Biotech
- Food and beverages

SPECIFICATIONS
Shank Style: Tapered, straight, or stepped
Process Connection: ¾", 1"
Instrument Connection: ½ NPSM, ½ NPT Female
Bore Size: 0.260", 0.385"
Surface Finish: 16-32 RA
Lagging: 2": if U-dimension is <3”
         3": if U-dimension is >3”
Cap and Chain: Brass, stainless steel

TABLE 1
<table>
<thead>
<tr>
<th>OPTIONS</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stamp tag number on thermowell</td>
<td>NF</td>
</tr>
<tr>
<td>Stainless steel tag wired to thermowell</td>
<td>NH</td>
</tr>
<tr>
<td>Hydrostatic test-internal</td>
<td>W9</td>
</tr>
<tr>
<td>Clean for oxygen service</td>
<td>6B</td>
</tr>
<tr>
<td>Wake frequency calculation</td>
<td>W5</td>
</tr>
<tr>
<td>Material origin restriction</td>
<td>UM</td>
</tr>
</tbody>
</table>

Certificates
- Certificate of Conformance (per order) CD-1A
- Physical and Chemical Material Test Report (MTR’s) W6
- Positive Material Identification (PMI) N/A Carbon Steel MQ
- NACE Certificate of Compliance CD-5

KEY BENEFITS
- Protects instrument against corrosive effects and physical damage caused by media flow
- Permits instrument interchange or calibration check without disturbing/closing down the process
- Tracing of material origin for quality assurance and control

TABLE 2
<table>
<thead>
<tr>
<th>MATERIALS</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>304 Stainless steel</td>
<td>C</td>
</tr>
<tr>
<td>316 Stainless steel</td>
<td>S</td>
</tr>
<tr>
<td>Monel®</td>
<td>M</td>
</tr>
<tr>
<td>Hastelloy® B/C</td>
<td>G/H</td>
</tr>
<tr>
<td>Carpenter® 20</td>
<td>D</td>
</tr>
<tr>
<td>Chrome Moly F11/F22</td>
<td>FA/FB</td>
</tr>
<tr>
<td>Duplex 2205 S/S</td>
<td>J</td>
</tr>
<tr>
<td>Super Duplex S32750</td>
<td>SD</td>
</tr>
<tr>
<td>Iconel® 600</td>
<td>W</td>
</tr>
<tr>
<td>Titanium</td>
<td>TI</td>
</tr>
<tr>
<td>Carbon Steel</td>
<td>B</td>
</tr>
</tbody>
</table>
### ORDERING CODE

<table>
<thead>
<tr>
<th>Example:</th>
<th>75</th>
<th>W</th>
<th>0450</th>
<th>L</th>
<th>H</th>
<th>S</th>
<th>S</th>
<th>1</th>
<th>XNF</th>
<th>L0350</th>
</tr>
</thead>
</table>

#### Process Connection Size

- **75** - ¾˝ (socket weld only)
- **10** - 1˝ (socket weld only)

#### Thermowell

- **W** - Thermowell

#### U-Process Insertion Length

- **0250** - 2½˝
- **0450** - 4¼˝
- **0750** - 7½˝
- **1050** - 10½˝
- **1350** - 13½˝
- **1650** - 16½˝
- **2250** - 22½˝

#### Instrument Connection

- Blank - ½ NPSM
- **2** - ½ NPT Female

#### T-Lagging

- Blank - No lagging
- **L** - Lagging (For special lag length, see below)

#### Shank Type

- **H** - Tapered
- **S** - Straight
- **R** - Stepped

#### Process Connection

- **S** - Socket weld

#### D-Bore Diameter

- **260** - 0.260˝
- **385** - 0.385˝

#### Material (Refer to Table 2)

- **C** - 304 Stainless steel
- **S** - 316 Stainless steel

#### Cap and Chain

- Blank - No cap and chain
- **1** - Brass
- **2** - Stainless Steel

#### Options - (see Table 1 on page 1 for additional options (if choosing an option(s) must include an “X”)

- NF - Stamp tag number on thermowell

#### Special Lagging Length

- **L** - Lagging length × 100 (ex: 3.5˝ × 100 = L0350)
**DIMENSIONS**

For reference only, consult Ashcroft for specific dimensional drawings

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**Socket Weld Tapered - 0.260 & 0.385 Bore**

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>C</th>
<th>B 0.260 Bore</th>
<th>B 0.385 Bore</th>
<th>E 0.260 Bore</th>
<th>E 0.385 Bore</th>
</tr>
</thead>
<tbody>
<tr>
<td>¾”</td>
<td>1.05”</td>
<td>0.78”</td>
<td>0.87”</td>
<td>0.625”</td>
<td>0.766”</td>
</tr>
<tr>
<td>1”</td>
<td>1.315”</td>
<td>1.03”</td>
<td>1.03”</td>
<td>0.625”</td>
<td>0.766”</td>
</tr>
</tbody>
</table>

**DIMENSION (Inches)**

<table>
<thead>
<tr>
<th>P</th>
<th>S</th>
<th>U</th>
<th>¼” Bore</th>
<th>½” Bore</th>
</tr>
</thead>
<tbody>
<tr>
<td>¾”</td>
<td>4</td>
<td>2½</td>
<td>75W0250HS260</td>
<td>75W0250HS385</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>4½</td>
<td>75W0450HS260</td>
<td>75W0450HS385</td>
</tr>
<tr>
<td>½”</td>
<td>9</td>
<td>7½</td>
<td>75W0750HS260</td>
<td>75W0750HS385</td>
</tr>
<tr>
<td>¾”</td>
<td>12</td>
<td>10½</td>
<td>75W1050HS260</td>
<td>75W1050HS385</td>
</tr>
<tr>
<td>½”</td>
<td>15</td>
<td>13½</td>
<td>75W1350HS260</td>
<td>75W1350HS385</td>
</tr>
<tr>
<td>¾”</td>
<td>18</td>
<td>16½</td>
<td>75W1650HS260</td>
<td>75W1650HS385</td>
</tr>
<tr>
<td>¾”</td>
<td>24</td>
<td>22½</td>
<td>75W2250HS260</td>
<td>75W2250HS385</td>
</tr>
</tbody>
</table>

**Thermowell Legend**

I - Instrument connection (½” NPSM is STD.)
E - Tip O.D.
D - Bore diameter
U - Insertion depth
S - Instrument stem length or bore depth
C - Hub diameter
B - Root OD

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