Weld-In Thermowells

Weld-In Thermowells are available in a variety of materials, process connection sizes, lengths and optional lagging extensions. Thermowell specifications should be based on process conditions which include strength, temperature, pressure and corrosion-resistance requirements. Weld-In thermowells are welded directly into the process apparatus. They are designed with a standard 0.260” or 0.385” bore diameter to accommodate sensing elements with a 0.252” or 0.377” maximum diameter, respectively. The tapered design is suited for heavy-duty applications where greater rigidity is required due to process conditions. These wells are available as separate components or as part of complete sensor assemblies.

**Thermowell Dimensions**

<table>
<thead>
<tr>
<th>“P” PIPE SIZE</th>
<th>“V” (0.260”)</th>
<th>“U” (0.385”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4” NPS</td>
<td>1.050”</td>
<td>5/8” Dia.</td>
</tr>
<tr>
<td>1” NPS</td>
<td>1.315”</td>
<td>49/64” Dia.</td>
</tr>
<tr>
<td>1 1/4” NPS</td>
<td>1.660”</td>
<td>1” Dia.</td>
</tr>
<tr>
<td>1 1/2” NPS</td>
<td>1.900”</td>
<td>1 1/8” Dia.</td>
</tr>
<tr>
<td>1 1/2” OD</td>
<td>1.500”</td>
<td>7/8” Dia.</td>
</tr>
</tbody>
</table>

("U" length for non-lagging wells) = “S” -1 1/2”
("U" length for lagging wells) = “S” -1 1/2” -“T”
(To solve for “T”), “T” = “S” -“U” -1 1/2” (When “U” and “S” are specified)

**ORDER CODES**

Example Order Number: WI 4 D 09 08 T2 C8S

1-0 Well Type
- CODE: WI
- DESCRIPTION: Weld-In

1-1 Bore Size
- CODE: 4
- DESCRIPTION: 0.260” Dia. bore
- CODE: 6
- DESCRIPTION: 0.385” Dia. bore

1-2 Pipe Size “P”
- CODE: D
- DESCRIPTION: 3/4” NPS
- CODE: E
- DESCRIPTION: 1” NPS
- CODE: F
- DESCRIPTION: 1 1/4” NPS
- CODE: G
- DESCRIPTION: 1 1/2” NPS
- CODE: J
- DESCRIPTION: 1 1/2” OD

1-3 “S” Length
- CODE: XX
- DESCRIPTION: Specify length in inches using two digits plus fractional length

1-4 Material
- CODE: XX
- DESCRIPTION: Specify two digit material code as stated in the Thermowell Material Table located earlier in section

1-5 “T” Lag Dimension
- CODE: T
- DESCRIPTION: Specify “T” dimension in inches

1-6 Options
- CODE: C8
- DESCRIPTION: 316 stainless steel well cap and chain
- CODE: C22
- DESCRIPTION: Brass well cap and chain
- CODE: S
- DESCRIPTION: Well stamped with customer-specified part number