TW25 Weld-In Thermowell
(Solid machined)

Model TW25 thermowells are machined from solid bar stock and inserted into the process through direct welded attachment. This design of thermowell will accept thermocouples (TC), resistance temperature detectors (RTD), as well as mechanical and digital thermometers.

The Head Diameter (P) is designed to fit any required process size with a minimum of 1 inch (25.4 mm) to a maximum of 2 inch (50.8 mm). Consult factory if a larger diameter is required. There are no restrictions on head diameter within the specified range as no fitting with matching dimensions is necessary.

Applications:
- Chemical, process, apparatus and plant engineering; petrochemical; oil/refinery
- High chemical loads
- High process loads

Part of Your Business
Create your product part number by selecting the appropriate assembly items from each of the categories below. Enter the item code into the applicable box to generate the part number.

<table>
<thead>
<tr>
<th>TW25</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>TW25-X-X-XXXX-XX-XXXXX-XXXXX-XX-X-XXXX-XXXXX-XX-XX</td>
<td></td>
</tr>
</tbody>
</table>

1 Thermowell style
   - A Tapered
   - B Straight
   - C Stepped

2 Unit of measure
   - I Imperial
   - M Metric

3 Head diameter [P]
   Please specify; minimum 1 inch (25.4 mm) (e.g. 1.5 inch = 1500) (e.g. 28 mm = 0280)

4 Instrument connection
   - GF 1/2 NPSM
   - TD G 1/2 female
   - UD 1/2 NPT female

5 Insertion length [U]
   Please specify; maximum 62 inch (1575 mm) (e.g. 8.5 inch = 08500)

6 Head length [H]
   Please specify (e.g. 1.5 inch = 01500) (e.g. 48 mm = 0048)

7 Material
   - G3 Stainless steel 316/316L
   - G1 Stainless steel 304/304L
   - F1 Carbon steel A105
   - G5 Stainless steel 310
   - G6 Stainless steel 321
   - G8 Stainless steel 347
   - G4 Stainless steel 316H
   - G2 Stainless steel 304H
   - H1 Carbon steel F11
   - H2 Carbon steel F22
   - H3 Carbon steel F5
   - H4 Carbon steel F9
   - H5 Carbon steel F91
   - B1 Inconel® 600
   - B2 Inconel® 601
   - B3 Inconel® 625
   - C1 Incoloy® 800H/HT
   - C2 Incoloy® 825
   - A5 Titanium Grade II
   - D1 Monel® 400
   - E1 Nickel 200
   - E2 Nickel 201
   - A2 Hastelloy® C-276
   - A1 Hastelloy® B-2
   - A3 Hastelloy® C-4
   - I1 Stainless steel 410
   - I2 Stainless steel 446
   - A4 Hastelloy® C-22
   - L6 Stainless steel duplex (1.4462)
   - L5 Stainless steel 1.4571
   - L1 Carbon steel 1.7335 (13CrMo44)
   - L4 Carbon steel 1.5415 (15Mo3/16Mo3)
   - L2 Carbon steel 1.7380 (10CrMo910)
   - L3 Carbon steel 1.0460 (C22.8)
   - F2 Carbon steel 1018

8 Bore size [B]
   - A 0.260 inch (6.6 mm)
   - M 0.335 inch (8.5 mm)
   - B 0.385 inch (9.8 mm)

9 Root diameter [Q]
   Please specify (e.g. 1.375 inch = 1375) (e.g. 24 mm = 0240)

10 Tip diameter [V]
   - 0500 0.500 inch
   - 0750 0.750 inch
   - 0127 12.7 mm
   - 0190 19 mm
   Please specify (e.g. 0.625 inch = 0625) (e.g. 24 mm = 0240)

11 RTD / TC / Thermometer assembly
   - 1A TR10 Industrial RTD assembly
   - 1B TC10 Industrial TC assembly
   - 1C TR15 Remote RTD assembly
   - 1D TC15 Remote TC assembly
   - 1F TR75 DiwiTherm® YY Dial Thermometer (Bimetal / Gas actuated)
   - ZZ Without

12 Certificates
   - 1 Quality certificates
   - 2 Without

13 Additional order details
   - T Additional text
   - Z Without

Weld-In Thermowell Installation:
Thermowells

**TW25 Weld-In Thermowell (Solid Machined)**

**Options:**
- Bore Depth: Up to 72 inch (1828 mm)
- Thermowell Style: Tapered, Straight, or Stepped
- Bore Size: 0.260 to 0.385 inch
- Insertion Length: Up to 62 inch (1575 mm) for single piece construction
- Head Diameter: Up to 2 inch (50.8 mm)
- Head Diameter: 6.6 to 9.8 mm
- Electrical Approvals: CSA, FM
- Wake frequency calculations
- Quality certificates
- Stainless steel plug or cap with chain
- Product imaging
- Multi-piece construction for bore depths greater than 72 inch

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**North America**

**Canada**
- Bore Depth: 6.5 to 12 inch for single piece construction
- Head Diameter: 1.5 to 2 inch

**USA**
- Bore Depth: 6.5 to 12 inch
- Head Diameter: 1 inch

**Mexico**
- Bore Depth: 6.5 to 12 inch
- Head Diameter: 6.5 to 9.8 mm

**South America**

**Brazil**
- Bore Depth: 6.5 to 12 inch
- Head Diameter: 1 inch

**Europe**

**UK**
- Bore Depth: 6.5 to 12 inch
- Head Diameter: 1 inch

**Africa/Middle East**

**Russia**
- Bore Depth: 6.5 to 12 inch
- Head Diameter: 1 inch

**Asia**

**India**
- Bore Depth: 6.5 to 12 inch
- Head Diameter: 1 inch

**Australia**
- Bore Depth: 6.5 to 12 inch
- Head Diameter: 1 inch

**Africa**
- Bore Depth: 6.5 to 12 inch
- Head Diameter: 1 inch

**Middle East**
- Bore Depth: 6.5 to 12 inch
- Head Diameter: 1 inch

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**TW25 Weld-In Thermowell**

Model TW25 thermowells are machined from solid bar stock and inserted into the process through direct welded attachment. This design of thermowell will accept thermocouples (TC), resistance temperature detectors (RTD), as well as mechanical and digital thermometers. The Head Diameter (P) is designed to fit any required process size with a minimum of 1 inch (25.4 mm) to a maximum of 2 inch (50.8 mm). Consult factory if a larger diameter is required. There are no restrictions on head diameter within the specified range as no fitting with matching dimensions is necessary.

**Applications:**
- Chemical, process, apparatus and plant engineering; petrochemical; oil/tin/huff
- High chemical loads
- High process loads

**Weld-In Thermowell Installation:**

**Diagram and Table**

| TW25 Weld-In Thermowell (Solid machined) | **Applications:** Chemical, process, apparatus and plant engineering; petrochemical; oil/tin/huff | **Head Diameter (P):** The Head Diameter (P) is designed to fit any required process size with a minimum of 1 inch (25.4 mm) to a maximum of 2 inch (50.8 mm). Consult factory if a larger diameter is required. There are no restrictions on head diameter within the specified range as no fitting with matching dimensions is necessary.

**Part of Your Business**

Create your product part number by selecting the appropriate assembly items from each of the categories below. Enter the item code into the applicable box to generate the part number.

**TW25 Part Number**

**Material**
- G3 Stainless steel 316/316L
- G1 Stainless steel 304/304L
- F1 Carbon steel A105
- G5 Stainless steel 310
- G6 Stainless steel 321
- G8 Stainless steel 347
- G4 Stainless steel 316H
- G2 Stainless steel 304H
- H1 Carbon steel F11
- H2 Carbon steel F22
- H3 Carbon steel F5
- H4 Carbon steel F9
- H5 Carbon steel F91
- B1 Inconel® 600
- B2 Inconel® 601
- B3 Inconel® 625
- C1 Incoloy® 800H/HT
- C2 Incoloy® 825
- A5 Titanium Grade II
- D1 Monel® 400
- E1 Nickel 200
- E2 Nickel 201
- A2 Hastelloy® C-276
- A1 Hastelloy® B-2
- A3 Hastelloy® C-4
- I1 Stainless steel 410
- I2 Stainless steel 446
- A4 Hastelloy® C-22
- L6 Stainless steel duplex (1.4462)
- L5 Stainless steel 1.4571
- L1 Carbon steel 1.7335 (13CrMo44)
- L4 Carbon steel 1.5415 (15Mo3/16Mo3)
- L2 Carbon steel 1.7380 (10CrMo910)
- L3 Carbon steel 1.0460 (C22.8)
- F2 Carbon steel 1018

**8 Bore Size [B]**
- A 0.260 inch (6.6 mm)
- M 0.335 inch (8.5 mm)
- B 0.385 inch (9.8 mm)

**9 Root Diameter [Q]**
- Please specify (e.g. 1.375 inch = 1375) (e.g. 24 mm = 0240)

**10 Tip Diameter [V]**
- 0500 0.500 inch
- 0750 0.750 inch
- 0127 12.7 mm
- 0190 19 mm
- Please specify (e.g. 0.625 inch = 0625) (e.g. 24 mm = 0240)

**Certificates**
- 1 Quality certificates

**Additional order details**
- Additional text
**TW25 Weld-In Thermowell**

Model TW25 thermowells are machined from solid bar stock and inserted into the process through direct welded attachment. This design of thermowell will accept thermocouples (TC), resistance temperature detectors (RTD), as well as mechanical and digital thermometers.

The Head Diameter (P) is designed to fit any required process size with a minimum of 1 inch (25.4 mm) to a maximum of 2 inch (50.8 mm). Consult factory if a larger diameter is required. There are no restrictions on head diameter within the specified range as no fitting with matching dimensions is necessary.

**Applications:**
- Chemical, process, apparatus and plant engineering; petrochemical; offshore
- Chemical loads
- High process loads

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### TW25 Weld-In Thermowell Installation:

**Process Pipe:**
- THERMOWELL
- PROGRESS PIPE

**ILI Diagram:**
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**Instrument Tube (V):**
- Ø 1/4" (6.4 mm)
- Ø 2 1/2" (63.5 mm)

**Thread:**
- M20 x 1.5 mm

**Diaphragm:**
- Ø 2 1/2" (63.5 mm)

**Bore size (B):**
- Ø 0.260 inch (6.6 mm)
- Ø 0.335 inch (8.5 mm)
- Ø 0.385 inch (9.8 mm)

**Root diameter (Q):**
- Please specify (e.g. 1.750 inch = 01750)
- Please specify (e.g. 45 mm = 0045)

**Tip diameter (V):**
- Ø 0.500 inch
- Ø 0.750 inch
- Ø 12.7 mm
- Ø 19 mm
- Please specify (e.g. 0.625 inch = 00625)
- Please specify (e.g. 24 mm = 00240)

**Material:**
- Stainless steel 316/316L
- Stainless steel 304/304L
- Carbon steel A105
- Stainless steel 310
- Stainless steel 321
- Stainless steel 347
- Stainless steel 316H
- Stainless steel 304H
- Carbon steel F11
- Carbon steel F22
- Carbon steel F5
- Carbon steel F9
- Carbon steel F91
- Monel® 400
- Nickel 200
- Nickel 201
- Hastelloy® C-276
- Hastelloy® B-2
- Hastelloy® C-4
- Stainless steel 410
- Stainless steel 446
- Hastelloy® C-22
- Titanium Grade II
- Monel® 400
- Duplex (1.4462)
- Stainless steel 1.4571
- Carbon steel 1.7335 (13CrMo44)
- Carbon steel 1.5415 (15Mo3/16Mo3)
- Carbon steel 1.7380 (10CrMo910)
- Carbon steel 1.0460 (C22.8)
- Carbon steel 1018

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**Certificates:**
- Quality certificates
- Without

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**Additional Details:**
- Additional order details
- Without

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**Part of Your Business**

Create your product part number by selecting the appropriate assembly items from each of the categories below. Enter the item code into the applicable box to generate the part number.

- TW25
- TW25-X-X-XXXX-XX-XXXXX-XXXXX-XX-XX
- Thermowell style
- A Tapered
- B Straight
- C Stepped
- Unit of measure
- I Imperial
- M Metric
- Head diameter [P]
- Please specify; minimum 1 inch (25.4 mm) (e.g. 1.5 inch = 1500)
- Instrument connection
- GF 1/2 NPSM
- TD G 1/2 female
- UD 1/2 NPT female
- Insertion length [U]
- Please specify; maximum 62 inch (1575 mm) (e.g. 8.5 inch = 00850)
- Head length [H]
- 01750 1.75 inch
- 0045 45 mm
- 0048 48 mm
- Bore size [B]
- A 0.260 inch (6.6 mm)
- M 0.335 inch (8.5 mm)
- B 0.385 inch (9.8 mm)
- Certificates
- 1 Quality certificates
- Without
- Additional order details
- T Additional text
- Without
### Thermowells

**TW25 Weld-In Thermowell (Solid Machined)**

**Electrical Approvals:** CSA, FM

**Thermowell Style:** Tapered, Straight, or Insertion

**Bore Siz:** 0.250 to 0.365 inch (6.4 to 9.5 mm)

**Bore Depth:** Up to 72 inch (1800 mm)

**Insertion Length:** Up to 62 inch (1575 mm) for bore depths greater than 72 inch

**Head Diameter:** Up to 2 inch (50.8 mm)

**Options:**
- Weld frequency calculations
- Quality certificates
- Stainless steel plug or cap with chain
- Product imaging
- Multi-piece construction for bore depths greater than 72 inch

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**TW5 Weld-In Thermowell (Solid Machined)**