

The following options are available on Pyromation thermowells. Please contact our sales department for information and current pricing.

| Documentation/Testing | |
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| Certificate of Compliance | C of C |
| Hydrostatic Test (Internal) | ASTM E1003 Compliant |
| Liquid Dye Penetrant Test | ASTM E1220 Compliant |
| Material Test Reports | MTR |
| NACE Hardness Test | Thermowell must be made of a NACE recognized material. |
| Positive Material Identification | X-Ray Fluorescence Spectrometry |
| Surface Roughness Test | ASME B46.1 |
| Wake Frequency Calculation | ASME PTC 19.3 |
| Weld X-Ray Inspection | Call for Pricing |
| Services | |
| Expedited Delivery | Call for Pricing |
| Oxygen cleaning | ASTM G93 Compliant (when specified) |
| Stamping | 10 Characters Maximum |
| Full Penetration Weld | Performed by welders certified to ASME Section IX, Boiler and Pressure Vessel Code |
| Component/Coatings | |
| Abrasive Coatings | Call for Pricing |
| Plug and Chain - Brass | Call for Pricing |
| Plug and Chain - Stainless Steel | Call for Pricing |
| Ring-Joint Flange | Call for Pricing |
| Tantalum Jacket | Call for Pricing |
| Teflon® Coatings (FEP) | Call for Pricing |
| Industry Specifications | |
| Canadian Registration Numbers ^[1] | CSA B51 Boiler, Pressure Vessel and Pressure Piping Code |
| Flanged Thermowells | ASME B16.5 prior to fabrication |
| Heat Treating | NACE Certification available for applicable materials. (Barstock thermowells meet this specification. Flanged thermowells can be heat treated to comply.) Stress relief, annealing, and custom heat treating available upon request. |
| Material | ASTM Compliance and other applicable National Standards |
| Pipe Threads | ASME B1.20.1 |
| Sanitary Thermowells | 3A Sanitary Council Standard. Authorization Number: 487 32 µin R _a Food Grade Surface Finish |
| Manufacturing Tolerances and Maximums | |
| "S" Length Maximum | 32" maximum for standard drilled thermowells. 61" maximum for full penetrating butt weld, two piece construction thermowells. Over 61" consult factory. 12" maximum "S" length for plastic thermowells |
| Bore "Bottom" Shape | "W" (nominal) |
| Bore Concentricity | ± 10% of minimum wall thickness |
| Bore Depth | ±0.020" (through 32.00") |
| Bore Diameter | +0.005" / -0.003" (bore sizes 0.125" through 0.406" I.D.) |
| Insertion Length | Lengths up to 22.50" ± 0.0625". Lengths up to 22.50" through 48" ±0.125". Lengths over 48" through ±0.25". |
| Marking | Standard marking includes material grade and material traceability codes |
| Stem Outside Diameter | ±0.010" |
| Tapered Allowance | Maximum tapered length is 16.00". "U" dimensions greater than 16.00" in length are manufactured with a straight OD beginning below the process connection radius and following through with only the last 16.00" of "U" dimension tapered to minor OD. |
| Internal Threads | 1/2"-14 - NPT per ANSI B1.20.1 (1 to 3 turns deep per UL 866 and CSA C22.2 No. 30-M1986) |
| Tip Thickness | 0.25" ± 0.0625" |

[1] Available as an option. Must be specified.