

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

Documentation/Testing	
Certificate of Compliance	C of C
Hydrostatic Test (Internal or External)	ASTM E1003 Compliant
Liquid Dye Penetrant Test	ASTM E165 Compliant, ASTM E1220
Material Test Reports	MTR
NACE	NACE Certification available for applicable materials.
Positive Material Identification (PMI)	X-Ray Fluorescence Spectrometry, ASTM E572, ASTM E2465
Surface Roughness Test	ASME B46.1
Wake Frequency Calculation	ASME PTC 19.3 TW
Weld X-Ray Inspection	ASME B31.3
Services	
Expedited Delivery	Call for Availability
Oxygen cleaning	ASTM G93; CGA G-4.1
Stamping	10 Characters Maximum
Full-Penetration Weld	Performed by welders certified to ASME Section IX, Boiler and Pressure Vessel Code
Electropolish	15 µin R _a Standard
Components/Coatings	
Abrasive Coatings	Stellite #6, Colmonoy #72, Chrome Carbide, D-5 Tungston Carbide
Plug and Chain - Brass	See Catalog Option
Plug and Chain - Stainless Steel	See Catalog Option
Tantalum Jacket	0.015" Thickness Standard
FEP Coating	1-5 mils Thickness Average
Industry Specifications	
Canadian Registration Numbers (CRN)	ASME B31.3 Process Piping
Flanged Thermowells	ASME B16.5 prior to fabrication
Heat Treating	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	3-A Sanitary Council Standard. Authorization Number: 487 32 µin R _a Food Grade Surface Finish
Manufacturing Tolerances and Maximums	
"S" Length Maximum	36" maximum for standard drilled thermowells. For over 36" or for multi-piece construction, consult factory.
Bore "Bottom" Shape	"W" (nominal)
Bore Concentricity	± 10% of minimum wall thickness
Bore Depth	±0.020" (through 36")
Bore Diameter	+0.005" / -0.003" (bore sizes 0.125" through 0.5156" I.D.)
Insertion Length	Lengths up to 22.50" ± 0.0625". Lengths from 22.50" through 48" ±0.125". Lengths over 48" ±0.25".
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 O.D. beginning below the process connection radius and following throughout with only the last 16.00" of "U" dimension tapered to minor O.D.
Surface Finish	32 µin R _a standard
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)
Marking	Standard marking includes material grade, material traceability codes, and CRN when applicable on drilled barstock and flanged thermowells
Passivation	ASTM A967