

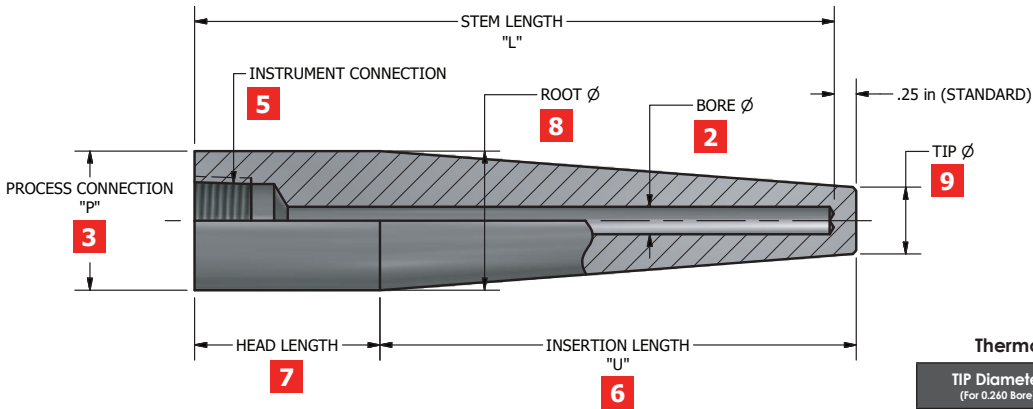
TW27

WELD-IN TAPERED THERMOWELL

Weld-in thermowells are highly recommended in applications that produce a high rate of flow or pressure, since the thermowell is welded directly to the process pipe without the need for threads or flanges. This type of thermowell is recommended when contaminants could collect in exposed threads, such as pharmaceutical or food processing production.

Our weld-in thermowells are designed and manufactured 100% in house, and are made to accept standard and custom made thermometers, thermocouples, bulbs and RTD's.

Our weld-in thermowells are also available in a wide variety of process pipe sizes and configurations.



Thermowell Dimensions	
TIP Diameter (For 0.260 Bore)	TIP Diameter (For 0.385 Bore)
0.625" (15.9 mm)	0.750" (19.1 mm)

Please note: Various configurations may not be available. Mac-Weld will notify you if you have selected a incompatible part combination.

1	2	3	4	5	6	7	8	9	10
Thermowell Stem Style	Bore Size	Process Connection	Material	Material (Continued)	Instrument Connection	Insertion Length	Head Length	Root Diameter	Tip Diameter
Code: TW27 Description: Tapered Stem	Code: A Description: 0.260	Code: BA Description: 3/4" Pipe (1.05" Dia)	Code: L2 Description: 316/316L	Code: U1 Description: Alloy C-276	Code: AA Description: 1/2" NPT	Code: xxxxx Description: Imperial: 6.500" = 06500 Metric: 165.1 mm = 01651	Code: xxxxx Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: xxxx Description: Imperial: 0.875" = 0875 Metric: 22.2 mm = 0222	Code: xxxx Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
Code: A Description: 0.260	Code: B Description: 0.385	Code: BB Description: 1" Pipe (1.315" Dia)	Code: H2 Description: 304/304L	Code: R2 Description: Alloy K500	Code: AB Description: 3/4" NPT	Code: *U length =>100,000" or 10,000.0mm see sales person for custom part number	Code: 1 Description: 1.75" = 01750	Code: 0.875 Description: Imperial: 0.875" = 0875 Metric: 22.2 mm = 0222	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
Code: C Description: 0.515	Code: D Description: 0.203	Code: BF Description: 1-1/4" Pipe (1.660" Dia)	Code: H3 Description: 304H	Code: U5 Description: Alloy X	Code: AC Description: 1" NPT		Code: 2 Description: 1.75" = 01750	Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
Code: E Description: 0.375	Code: F Description: 0.390	Code: BG Description: 1-1/2" Pipe (1.900" Dia)	Code: K2 Description: 310/310H	Code: C1 Description: Aluminum 6061	Code: AD Description: 1-1/4" NPT		Code: 3 Description: 1.75" = 01750	Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
Code: G Description: 0.343	Code: M Description: 0.406	Code: BI Description: 1" OD	Code: L3 Description: 316H	Code: A1 Description: Brass	Code: AE Description: 1-1/2" NPT		Code: 4 Description: 1.75" = 01750	Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
Code: N Description: 0.280	Code: O Description: 0.302	Code: BC Description: 1-1/4" OD	Code: J1 Description: 317	Code: E4 Description: Carbon Steel 1018	Code: AF Description: 1/2" NPSM		Code: 5 Description: 1.75" = 01750	Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
Code: P Description: 0.315	Code: R Description: 0.276	Code: BD Description: 1-1/2" OD	Code: J3 Description: 317L	Code: E3 Description: Carbon Steel 12L14	Code: AS Description: 1/2" NPT TO CSA		Code: 6 Description: 1.75" = 01750	Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
Code: U Description: 0.394	Code: V Description: 0.354	Code: BE Description: 1-3/4" OD	Code: M2 Description: 321/H	Code: E1 Description: Carbon Steel ASTM A105	Code: AZ Description: 1/2" ANPT		Code: 7 Description: 1.75" = 01750	Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
Code: X Description: 0.437	Code: K Description: 0.703	Code: BJ Description: 2" OD	Code: M3 Description: RA330	Code: G1 Description: Chrome-M-Moly F22	Code: AR Description: 1/4" NPT		Code: 8 Description: 1.75" = 01750	Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
		Code: BK Description: 2-1/4" OD	Code: N2 Description: 347/H	Code: F1 Description: Chrome-Moly-F11	Code: AT Description: 1/8" NPT		Code: 9 Description: 1.75" = 01750	Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
		Code: BL Description: 2-3/8" OD	Code: N3 Description: 410	Code: F6 Description: Chrome-Moly-F5	Code: AG Description: 1/2" BSPP		Code: 10 Description: 1.75" = 01750	Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
		Code: BM Description: 2-1/2" OD	Code: N4 Description: 446	Code: F7 Description: Chrome-Moly-F9	Code: AH Description: 3/4" BSPP			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: N5 Description: HR160	Code: F8 Description: Chrome-Moly-F91	Code: AI Description: 1/2" BSPT			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: S3 Description: 904L	Code: Y2 Description: CPVC	Code: AJ Description: 3/4" BSPT			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: S4 Description: AL-6XN	Code: F2 Description: Duplex F51/2205	Code: AK Description: M14 x 1.5			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: S2 Description: Alloy 20	Code: E2 Description: LF2	Code: AL Description: M18 x 1.5			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: S1 Description: Alloy 200	Code: B1 Description: Naval Brass	Code: AM Description: M20 x 1.5			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: R1 Description: Alloy 400	Code: Y1 Description: PVC	Code: AN Description: M24 x 1.5			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: P1 Description: Alloy 600	Code: F4 Description: Stainless F44/254 SMO	Code: AO Description: M27 x 2.0			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: P3 Description: Alloy 601	Code: F3 Description: Super Duplex F53/2507	Code: AP Description: 1/4" - 20 UNF			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: P2 Description: Alloy 625	Code: F5 Description: Super Duplex F55	Code: AQ Description: 3/8" - 24 UNF			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: Q3 Description: Alloy 800/H/HT	Code: W1 Description: Teflon	Code: AU Description: 1/2" - 20 UNF			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: Q1 Description: Alloy 825	Code: T1 Description: Tit Gr2	Code: AV Description: 5/8" - 18 UNF			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: U2 Description: Alloy B2	Code: T2 Description: Tit Gr5	Code: AW Description: 3/4" - 16 UNF			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: U3 Description: Alloy B3	Code: T3 Description: Tit Gr7	Code: AX Description: 7/8" - 14 UNF			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159
			Code: U4 Description: Alloy C-22	Code: Z1 Description: Zirc 702	Code: AY Description: 1" - 14 UNF			Code: 1.75 Description: Imperial: 1.75" = 01750 Metric: 44.5 mm = 00445	Code: 0.625 Description: Imperial: 0.625" = 0625 Metric: 15.9 mm = 0159

Custom sizes, connections and materials may not be listed, contact Mac-Weld today to find out more.



- Brass Plug & Chain
 - Stainless Plug & Chain
 - Teflon Coating
 - Stellite Overlay
 - Kynar Coating
 - Dye Penetrant Test
 - Dye Penetrant Cap
 - Dye Penetrant Root (Optional)
 - Internal Hydrostatic Testing
 - External Hydrostatic Testing
- Material Test Report (MTR)
 - Nace MR0175
 - PMI
 - Tantalum Sheath (Flanged Only)
 - Velocity Calculation per PTC 19.3 TW-2010
 - X-Ray
 - O2 Cleaning
 - Post Weld Heat Treatment
 - UT bore concentricity
- UT phased array
 - CofC (Certificate of compliance)
 - COO (certificate of origin)
 - Traceability Index
 - ITP (Inspection Test Plan)
 - Stamping
 - SS tags
 - Visual dimensional report
 - Electro polish
 - Pickle and Passivation

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