

Welded Thermowells

Model TWW



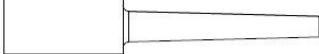
According to ANSI/ASME or DIN 43772

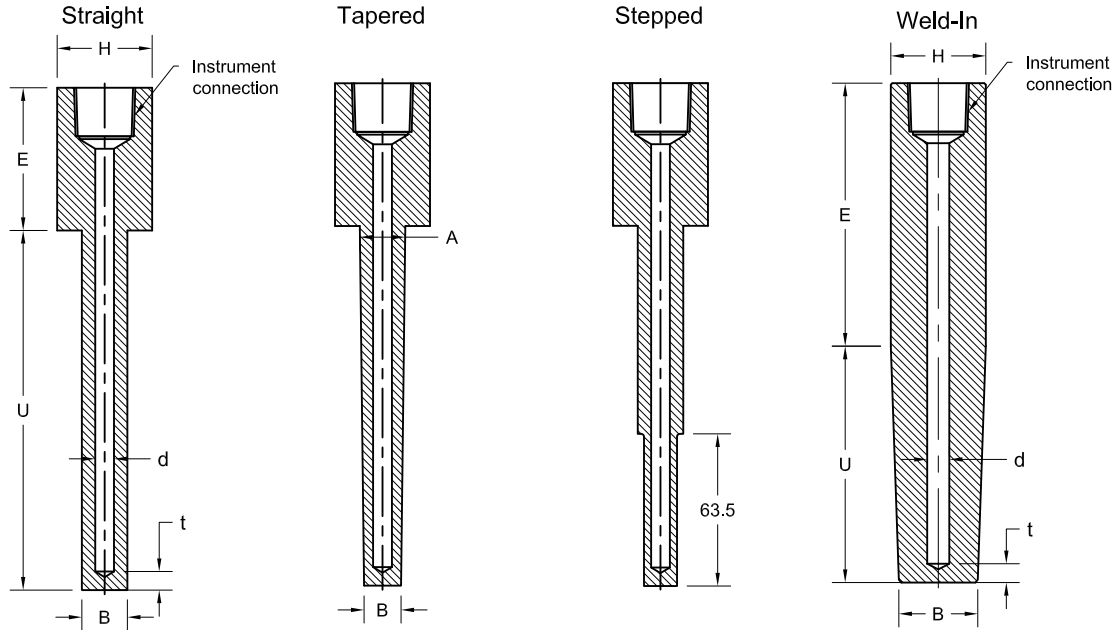
Features

- Socket weld or Weld-in heavy duty design
- Selection of materials
- Suitable for harsh process condition
- Standard and customer specifications
- Protects measuring instruments from service
- Single piece drilled bar stock construction
- Suitable for high velocity flow, high temperature, or extremely high pressure.
- Material certificate according NACE MR0175/ISO15156-2009 and NACE MR0103-2010

Applications

Chemical and petrochemical industry
 Machine and apparatus construction
 Food and beverage industry
 Pulp and paper industry

Technical specification	S	R	H
Socket weld design			
	Single piece drilled bar stock construction		
Construction shank	Straight	Stepped	Tapered
Bore diameter in mm	6.6 7.0 9,8	10.5 12.5, others on request	
Process connection	Pipe Size [inch] ¾, 1, 1 ¼, 1½, 2, others on request		
Instrument connection	½" NPT (F) or ½" BSP (F)		
Material	Carbon steel, Stainless steel 304 (1.4301), 304L (1.4306), 316 (1.4401), 316L (1.4404), 316Ti (1.4571), 321 (1.4541) Monel, Hastelloy-B, Hastelloy-C, Inconel, Tantalum, Duplex, Nickel Other materials or coatings on request		
Certifications & tests	Material certificate DIN EN 10204 3.1, Hydrostatic test, Bore Concentricity test, X-ray, Hardness test, NACE compliance certificate, Wake frequency calculation according ASME PTC 19.3		
Accessories, options	Cap and chain stainless steel		
Suitable for mounting of	Industrial thermometer, RTDs, Thermocouples, Temperature transmitters, Temperature switches		

General dimensions in mm


- A. Root diameter
- B. Tip diameter
- E. Extension length
- H. Hub diameter
- U. Immersion Length
- d. Bore diameter
- t. Tip thickness

Process connection	ANSI pipe Size	H-Hub Diameter
W75 / S75	3/4"	26.67 mm
W10 / S10	1"	33.40 mm
W12 / S12	1 1/4"	42.16 mm
W15 / S15	1 1/2"	48.26 mm
W38 / S38	1 1/2" OD actual	38.10 mm

Order information

Process connection	U-length in mm	Instrument connection	Extension length	Shank Type	Bore	Material	Options
ANSI Pipe Size	(U...) Specify length in mm ¹⁾	(04T) 1/2" NPT(F) (15T) 1/2" BSP(F)	(=) Standard, 57mm (EX) Specify Extension Length in mm E.g. (E100) for 100mm extension length	(S) Straight Shank (H) Tapper Shank (R) Stepped Shank (only for bore 6.6mm)	(6.6) 6.6mm (7.0) 7.0mm (8.5) 8.5mm (9.8) 9.8mm (10.5) 10.5mm (11.0) 11mm (12.5) 12.5mm	(B) Carbon steel (C) 304 (1.4301) (CL) 304L (1.4306) (S) 316 (1.4401) (SL) 316L (1.4404) (SH) 321 (1.4541) (ST) 316Ti (1.4571) (M) Monel (H) Hastelloy C (N) Nickel (DU) Duplex (IN) Inconel	(NH) Tagging stamped (CC) Cap and chain stainless steel Certifications (CDWFC) Wake frequency ASME PTC 19.3 (BC) Bore Concentricity test (UT) (XR2) X-ray for bore concentricity (CDW9) 100 bar 1 min. (CD3) 3.1 Material certi. (CD5) NACE Compliance (CDPMI) Positive material certificate (CDIBR) IBR Certificate
Weld-in	E.g. (250) for u length 250mm						
(W75) 3/4"							
(W10) 1"							
(W12) 1 1/4"							
(W15) 1 1/2"							
(W38) 38.1 mm (for 1 1/2" actual OD)							
Socket weld							
(S75) 3/4"							
(S10) 1"							
(S12) 1 1/4"							
(S15) 1 1/2"							
(S38) 38.1 mm (for 1 1/2" actual OD)							
		others on request					

1) solid bar stock up to 700mm total length of thermowell, >700mm welded bar stock construction

How to order

Process connection	Type	U-length	Instrument connection	Extension length	Shank Type	Bore	Material	Options
W38	TWW	320	04T	=	H	6.6	SL	NH