

Flanged Thermowells

Model TWF

ASME B 40.200

Features

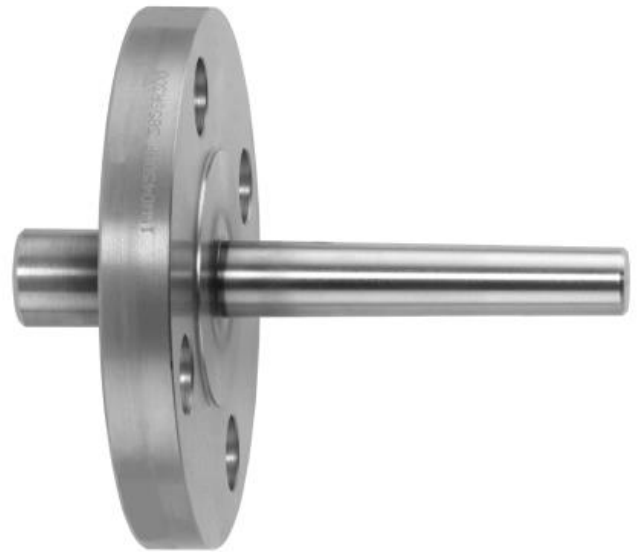
- Solid bore construction
- Materials according ISO 15156/NACE MR 01-75
- Selection of materials
- Standard and customer specifications
- DIN 43772 and ANSI/ASME process connections

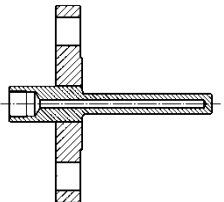
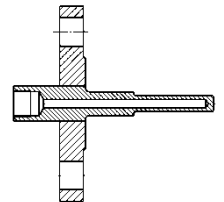
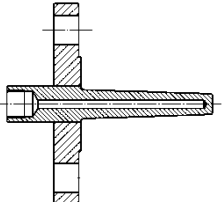
Ratings

DIN up to PN100
ANSI/ASME up to 1500 lbs

Applications

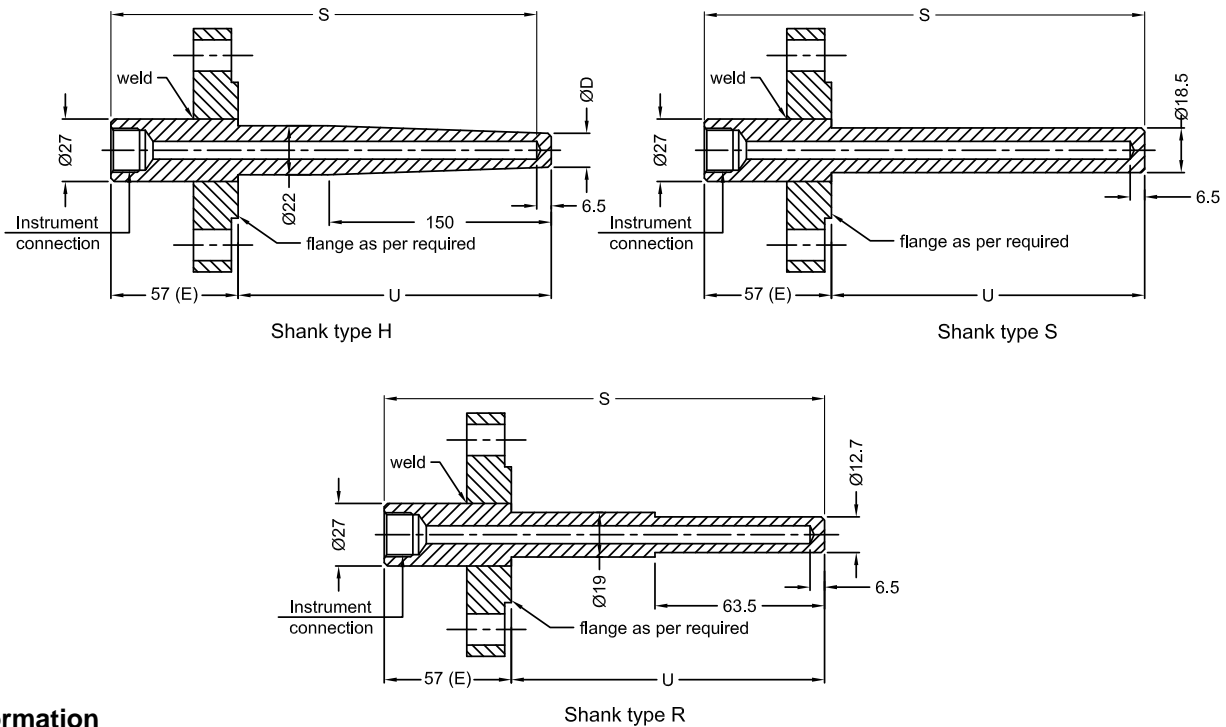
Chemical and petrochemical industry
Machine and apparatus construction
Food and beverage industry
Pulp and paper industry



Technical specification	S	R	H		
Solid bore design					
	Shank solid bore, flange welded on shank standard. Optional one piece design, built up design or to customer specification				
Construction shank	Straight		Stepped Tapered		
Bore diameter in mm	6.6	7.0	9,8	10.5	12.5, others on request
Pressure rating	Depending on flange rating				
Process connection	DIN 43772				
Size	DN25, DN40, DN50, DN80, DN100, others on request				
Pressure class	PN10, PN16, PN25, PN40, PN64, PN100, others on request				
ANSI/ASME B16.5					
Size [inch]	1, 1½, 2, 3, 4, others on request				
Pressure class [lbs]	150, 300, 600, 900, 1500				
Facing	Raised face, Flat face, Ring joint type)				
	Other forms, connections or standards are available 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 10 204 3.1, Hydrostatic test, dye penetration test, X-ray, Hardness test, ISO 15156/NACE certificate, stress calculation according to ASME PTC 19.3				
Accessories, options	Thermometers, RTD, thermocouples				

All specifications are subject to change without notice.

General dimensions in mm



Order information

Process connection	U-length in mm	Instrument connection	Extension Length	Shank Type	Bore	Material	Flange facing	Pressure rating	Dimension		
ANSI Flanged (10) 1" (15) 1 1/2" (20) 2" (30) 3"	(U...) Specify length in mm ² E.g. (250) for u length 250mm	(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	(H) Tapered (S) Straight (R) Stepped (only bore 0,260 (6,6mm))	(6.6) 6.6mm (7.0) 7.0mm (8.5) 8.5mm (9.8) 9.8mm (10.5) 10.5mm ¹⁾ (12.5) 12.5mm ¹⁾	(B) Carbon steel (C) SS 304 (CL) SS 304L (S) SS 316 (SL) SS 316L (SH) SS 321 (ST) SS 316Ti (M) Monel (H) Hastelloy C276 (N) Nickel (DU) Duplex (I600) Inconel 600	ANSI Flange (RF) Raised face (FF) Flat face ²⁾ (RTJ) Ring joint type	ANSI Flange 150 300 600 900 1500	(HD) Hub dia. (RD) Root dia. Options (NH) Stamped tag (CC) Cap & chain stainless steel (BP) Buffed and polished (FL.) Specify flange as per material code (e.g. FLM flange material Monel) (IBR) IBR Certificate (BC) Bore Concentricity test		
										Certificate	
										(CDWFC) Wake frequency ASME PTC 19.3	
										(CDW2) Dye penetration test	
										(CDRH) Rockwell hardness test	
DIN Flanged (DN25) (DN40) (DN50) (DN80) (DN100)	others on request			other construction such as: Solid machined, built up and to customer specification on request		flange material is the same as the shank material unless specified with code (FL.), see options	DIN flange the flange facing depends on the process connection (nominal size and nominal pressure)	DIN flange PN10 PN16 PN25 PN40 PN64 PN100	(XR1) X-ray for weld joint (XR2) X-ray for bore concentricity (CD3) 3.1 Material Certi. (CD5) NACE Certificate ³⁾ (CDMA) NACE MR 0175 / ISO 15156-2005 ⁴⁾ (PWHT) Post weld heat treatment		
										Certificate	
										(CDWFC) Wake frequency ASME PTC 19.3	
										(CDW2) Dye penetration test	
										(CDRH) Rockwell hardness test	

1) Not for shank type R (stepped) 2) only for size < 3" 3) only for material (H) and (DU) 4) only for material (SL)

How to order

Process connection	Type	U-length	Instrument connection	Extension length	Shank type	Bore diameter	Material	Flange facing	Pressure rating	Dimension	Options	Certificate
10	TWF	250	04T	=	H	9.8	SL	RF	150	HD28	NH	CD5

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