

Flanged Thermowells

Model TWF

According ANSI/ASME or DIN 43772

Features

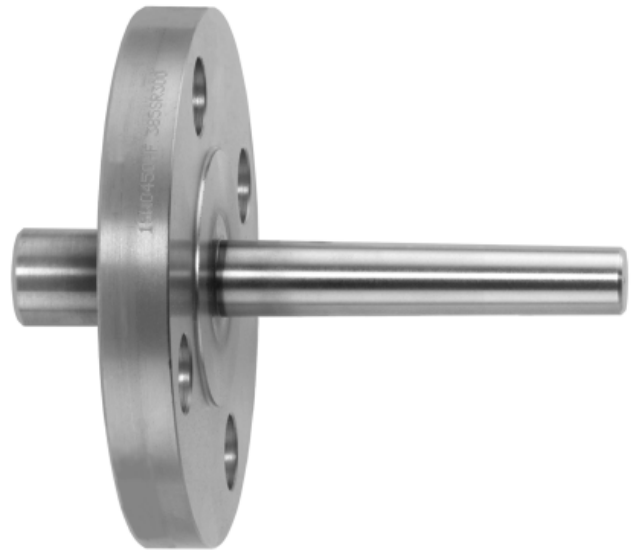
- Solid bore construction
- Materials according ISO 15156/NACE MR 01-75
- Selection of materials
- Standard and customer specifications
- DIN and ANSI/ASME process connections

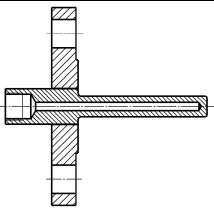
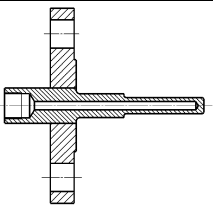
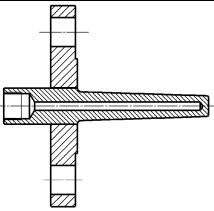
Ratings

DIN up to PN100
ANSI/ASME up to 1500 lbs

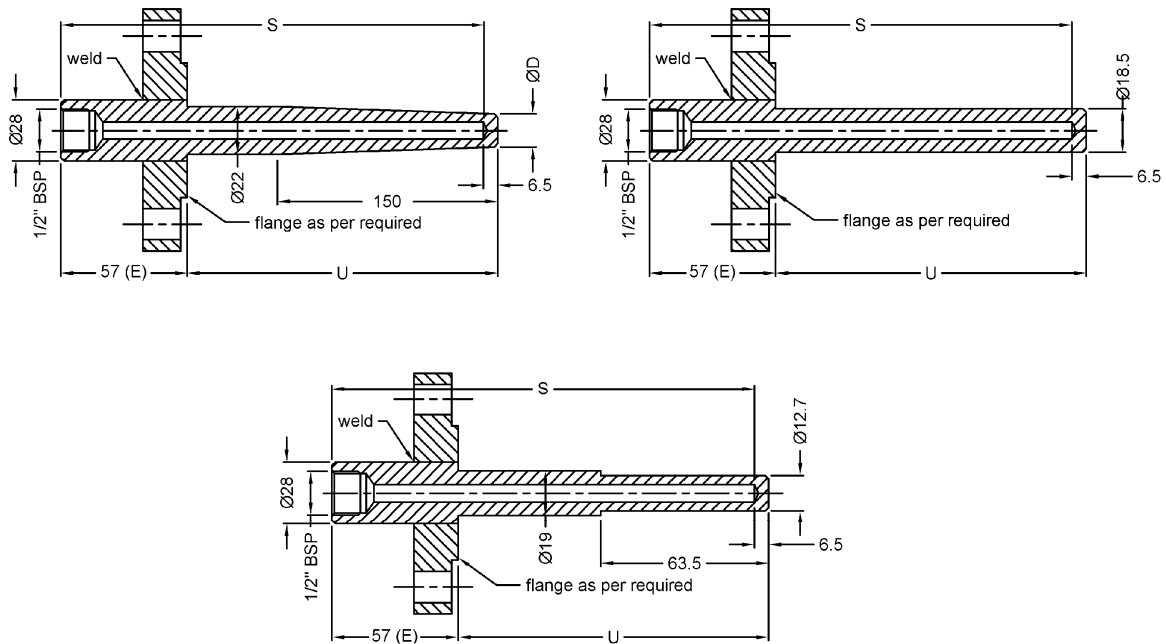
Applications

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



| Technical specification | S | R | H | | |
|-------------------------|---|---|--|------|-------------------------|
| Solid bore design |  |  |  | | |
| Construction shank | Shank solid bore, flange welded on shank standard. Optional one piece design, built up design or to customer specification | | | | |
| Bore diameter in mm | Straight | Stepped | Tapered | | |
| Pressure rating | 6.6 | 7.0 | 9.8 | 10.5 | 12.5, others on request |
| Process connection | Depending on flange rating | | | | |
| DIN | DN25, DN40, DN50, DN80, DN100, others on request | | | | |
| Size | PN10, PN16, PN25, PN40, PN64, PN100, others on request | | | | |
| Pressure class | 1, 1½, 2, 3, 4, others on request | | | | |
| ANSI/ASME | 150, 300, 600, 900, 1500 | | | | |
| Size [inch] | Raised face, Flat face, Ring joint type | | | | |
| Pressure class [lbs] | Other forms, connections or standards are available on request | | | | |
| Facing | ½" NPT (F) or ½" BSP (F) | | | | |
| Instrument connection | Stainless steel 304 (1.4301), 304L (1.4306), 316 (1.4401), 316L (1.4404), 316Ti (1.4571), 321 (1.4541) | | | | |
| Material | Monel, Hastelloy B, Hastelloy C, Inconel, Tantalum, Duplex, Nickel | | | | |
| Certifications & tests | Other materials or coatings on request | | | | |
| Accessories, options | 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 | | | | |
| | Thermometers, RTD, thermocouples | | | | |

General dimensions in mm



Order information

| Process connection | U-length in mm | Instrument connection | Extension Length | Type | Bore | Material | Flange facing | Pressure rating | Options |
|---|---|--|---|--|--|--|---|---|---|
| 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) Standard with Welded Flange Tapered Shank (S) Welded Flange Straight Shank (R) Welded Flange Stepped Shank (only bore 0,260 (6,6mm)) other construction such as: Solid machined, built up and to customer specification on request | (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 | (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 flange material is the same as the shank material unless specified with code (FL.), see options | (ANSI) ANSI Flange (RF) Raised face (FF) Flat face ² (RTJ) Ring joint type | ANSI Flange 150 300 600 900 1500 | (NH) Tagging stamped (CC) Cap & chain stainless steel (BP) Buffed and polished (FL) Specify flange as per material code (e.g. FLM flange material Monel) Certification (CDWFC) Wake frequency ASME PTC 19.3 (CDW2) Dye penetration test |
| DIN Flanged (DN15) (DN25) (DN40) (DN50) (DN80) (DN100) | | | | | | | DIN flange the flange facing depends on the process connection (nominal size and nominal pressure) | DIN flange PN10 PN16 PN25 PN40 PN64 PN100 | (CDRH) Rockwell hardness test (X-RAY) X-ray photo (CDW9) 100 bar 1 min. (CD3) 3.1 Material certificate (CD5) NACE MR 01-75 / ISO 15156-2003 ³ (CDMA)NACE MR 0175 / ISO 15156-2005 ⁴ |

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 | Options |
| 10 | TWF | 250 | 04T | = | H | 9.8 | SL | RF | 150 | NH |

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