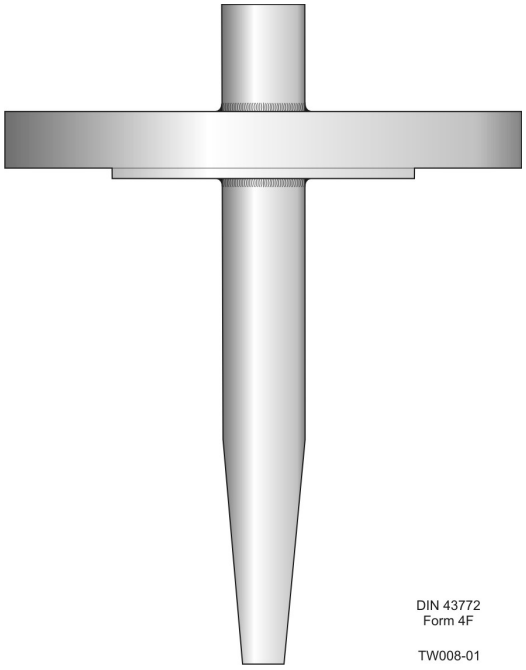
Flanged barstock thermowell according to DIN 43772 form 4F



INFORMATIONS

Heavy duty weld-in barstock thermowell
Dimensions : according to DIN 43772 standard with Form 4F – refer to the drawing of the technical data sheet for sizes and shape
Material : Stainless steel AISI 316, AISI 316TI, carbon steel A105, 16Mo3, 13CrMo4-5, others on request

Flange according to international standard as EN 1092-1, DIN 2527, ASME/ANSI, other

Certificates : qualitative certificates (to be defined by the customer).

APPLICATIONS

Chemical and petrochemical industries, refineries
Heavy duty with severe chemical and mechanical conditions

OPTIONS

Corrosion resistant coating (HALAR®, PFA, other) or abrasion resistant coating Wake frequency calculation to ASME PTC 19.3 is recommended in critical applications. Thermibel is able to calculate it for you.

Description	Standard	Your requirements

Immersion zone		
Material	❍ Carbon steel ❍ Stainless steel AISI316 L ❍ Stainless steel AISI316 Ti ❍ Heat resistant steel AISI 310 ❍ Other, please specify ❍ URANUS B6 (AISI 904L) ❍ Hastelloy C276 ❍ Inconel 600 ❍ Monel	
Surface finish	❍ Other, please specify ❍ None - stock finish as standard ❍ Electropolished - please indicate the roughness (Ra) ❍ ECTFE (Halar ®) corrosion-resistant coating ❍ PFA corrosion-resistant coating	
Dimensions : Total length L , Insertion length U1 and length of the tapered section U	❍ L = 200 mm / U1 = 130 mm / U = 65 mm ❍ L = 260 mm / U1 = 190 mm /U = 125 mm ❍ L = 410 mm / U1 = 340 mm /U = 275 mm	
Other dimensions : bore diameter d1, nominal diameter F2, diameter at the end F3, instrumentation thread N	❍ d1 = 3,5 mm / F2 = 18 h7 / F3 = 9 mm / N = M14 x 1,5 ❍ d1 = 7 mm / F2 = 24 h7 / F3 = 12,5 mm / N = M18 x 1,5 ❍ d1 = 7 mm / F2 = 26 h7 / F3 = 12,5 mm / N = G ½ ❍ d1 = 9 mm / F2 = 26 h7 / F3 = 15 mm / N = G ½ ❍ d1 = 11 mm / F2 = 32 h11 / F3 = 17 mm / N = G ¾ ❍ d1 = 13 mm / F2 = 32 h11 / F3 = 19 mm / N = G ¾ ❍ d1 = 14 mm / F2 = 32 h11 / F3 = 20 mm / N	

Immersion zone		
	= G ¾	
Flange standard	❍ ASME/ANSI with B16.5 raised face ❍ Other, please specify ❍ DIN 2527 with form C raised face ❍ EN 1092-1 with B1 raised face	
Flange material	❍ Other, please specify ❍ Same as thermowell shaft	
Nominal flange diameter (DN)	❍ Please specify	
Nominal flange pressure (PN)	❍ Please specify	
Tag	❍ s.s. tag plate with P&ID number ❍ PVC tag plate with P&ID number ❍ Not required (standard)	

Other requirements		
Certificates (option)	❍ Stress calculation according to ASME PTC 19.3 (mandatory process data : Pressure, Temperature, fluid velocity, density and viscosity) ❍ Conformity certificate ❍ Dye penetration test ❍ Material certificate according to EN 10204 3.1 ❍ Ultrasonic concentricity test ❍ External pressure test ❍ Internal pressure test ❍ WPS/WPA ❍ Thermowell drawing ❍ PMI (positive material identification) ❍ X-ray analysis	