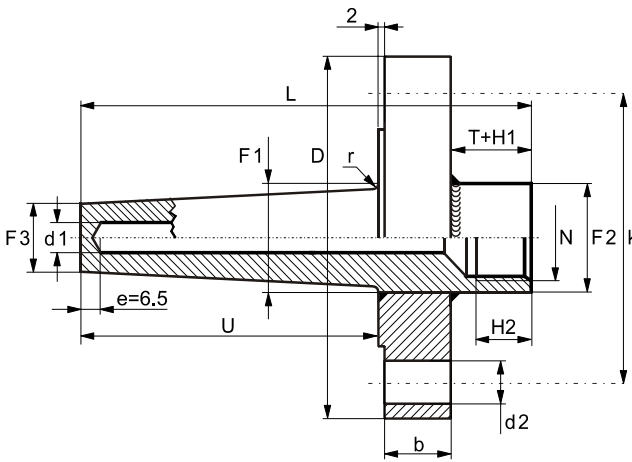


Flanged Bored Thermowell YPFB

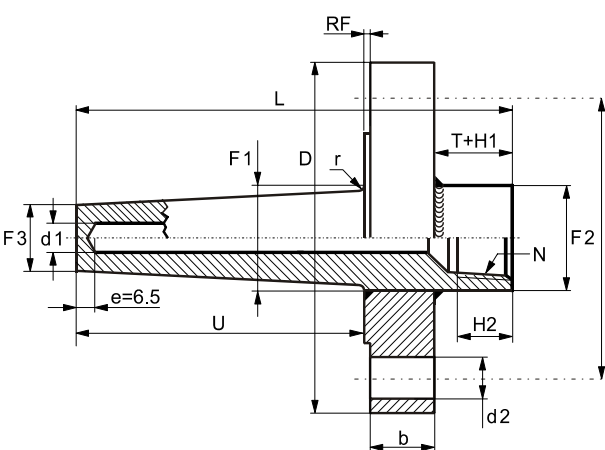
DIN-FLANGED BORED THERMOWELL YPFB		DIMENSIONS *							
Material - stainless steel (see Appendix - Sheath materials) Application - with temperature gauges and TS probes		N	H2 [mm]	H1 [mm]	F2 [mm]	d1 [mm]	F1 [mm]	F3 [mm]	
 <p>$L = U + b + T + H1$ (flat face) or $L = U + b + T + H1 + 2$ (raised face)</p> <p>Fillet radius: $r = 1...3$ mm</p> <p>Tapered part of U: max. 300 mm from the tip</p> <p>Full penetration weld design is also available on request.</p>		M14x1.5, G3/8"	15	20	22	4 / 5.5	≈ 18	13 / 15	
		M18x1.5	20	25	28	7	≈ 24	17	
		M20x1.5, G1/2"	20	25	30	7 / 9	≈ 26	17 / 19	
		M27x2, G3/4"	25	30	35	7 / 9 / 11	≈ 31	17 / 19 / 21	
		Probe diameter: $d = d1 - 1$ Probe thread: $G = N$ Probe length (incl. thread): $n = 0.98 * L - e$ (fixed) or $n = L - e + 1$ (spring-loaded) Maximum temperature: 850 °C Maximum pressure: 40 bar							INSERTION LENGTH
							d1 [mm]	U [mm]	
							< 7	max. 300	
							7...9	max. 700	
							11	max. 1000	
		FLANGE DIMENSIONS *						Flange type: DIN 2527 or EN DIN 1092-1 Maximum pressure: PN40	
NOMINAL SIZE	D [mm]	k [mm]	b [mm]	d2 [mm]	bolts				
DN10	90	60	14	14	4 x M12				
DN15	95	65							
DN20	105	75	16	18	4 x M16				
DN25	115	85							
DN32	140	100	18	18	4 x M16				
DN40	150	110							
DN50	165	125	20						
* Other dimensions are available on request. Please contact COMECO!									

Ordering code YPFBD - G4.G6.G7.G8.G9.G10'/G10".G14

Code	Feature or option	Code values
G4	Probe diameter 'd' [mm]	3, 4.5, 5, 6, 8, 10
G6	Shank length 'U' [mm]	50...1000 (see table above) ⁽¹⁾
G7	Extension length 'T' [mm]	0...100
G8	Flange nominal size	DN10 ⁽²⁾ , DN15, DN20, DN25, DN32, DN40, DN50, Z - other (specify!) ⁽²⁾
G9	Probe thread 'N' ⁽¹⁾	U1 - M18x1.5, U2 - M20x1.5, U3 - G3/8", U4 - G1/2", U5 - M27x2, U6 - G3/4", U8 - M14x1.5, Z - other (specify!) ⁽²⁾
G10'	Body material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571 ⁽²⁾ , M9 - 1.4404 or 1.4435, Z - other (specify!) ⁽²⁾
G10"	Flange material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571 ⁽²⁾ , M9 - 1.4404 or 1.4435, Z - other (specify!) ⁽²⁾
G14	Flange face	A - flat (FF), B - raised (RF), D - groove, F - recess, G - O-ring recess, H - O-ring groove

⁽¹⁾ Applicable for the selected probe diameter 'd'

⁽²⁾ Contact COMECO!

ANSI-FLANGED BORED THERMOWELL		YPFBA		DIMENSIONS *						
Material - stainless steel (see Appendix - Sheath materials) Application - with temperature gauges and TS probes		N	H2 [mm]	H1 [mm]	F2 [mm]	d1 [mm]	F1 [mm]	F3 [mm]		
 <p>$L = U + b + T + H1$ (flat face) or $L = U + RF + b + T + H1$ (raised face)</p> <p>Fillet radius: $r = 1...3$ mm</p> <p>Tapered part of U: max. 300 mm from the tip</p> <p>Full penetration weld design is also available on request.</p>		3/8" NPT	15	25	28	4 / 5.5	≈ 24	13 / 15		
		1/2" NPT	20	30	32	7 / 9	≈ 28	17 / 19		
		3/4" NPT	20	35	35	7 / 9 / 11	≈ 31	17 / 19 / 21		
		Probe diameter: $d = d1 - 1$ Probe thread: $G = N$ Probe length (incl. thread): $n = 0.98 * L - e$ (fixed) or $n \approx L$ (spring-loaded) Maximum temperature: 850 °C Maximum pressure: 100 bar					INSERTION LENGTH			
							d1 [mm]	U [mm]		
							< 7	max. 300		
							7..9	max. 700		
							11	max. 1000		
		FLANGE DIMENSIONS [mm] *								
SIZE	class	D	k	b	RF	d2	holes			
1/2"	150	88.9	60.5	9.7	1.5	15.7	4			
	300	95.2	66.5	12.7						
	600			14.2	6.3	22.3				
900	120.6	82.5	22.3							
150	98.6	69.8	11.2	1.5				15.7		
300	117.3	82.5	14.2							
600			15.7	6.3	22.3					
900	130	88.9	25.4							
150	108	79.2	12.7			1.5	15.7			
300	124	88.9	16							
600			17.5	6.3	25.4					
900	149.3	101.6	28.4							
150	117.3	88.9	14.2			1.5	15.7			
300	133.4	98.6	18							
600			20.6	6.3	25.4					
900	158.7	111.2	28.4							
150	127	98.6	16			1.5	15.7			
300	155.4	114.3	19							
600			22.3	6.3	22.3					
900	177.8	123.9	31.7							
150	152.4	120.6	17.5			1.5	19			
300	165.1	127	20.8							
600			25.4	6.3	25.4					
900	215.9	165.1	38.1							

Flange type:
ANSI B16.5

Maximum pressure:
class 150 - 150 psig
class 300 - 300 psig
class 600 - 600 psig
class 900 - 900 psig
class 1500 - 1500 psig

(to fit thermowell specifications)

Dimensions for classes 900 and 1500 are identical up to 2 1/2" size!

* Other dimensions are available on request. Please contact COMECO!

Ordering code YPFBA - G4.G6.G7.G8'/G8".G9.G10'/G10".G14

Code	Feature or option	Code values
G4	Probe diameter 'd' [mm]	3, 4.5, 5, 6, 8, 10
G6	Shank length 'U' [mm]	50...1000 (see table above) ⁽¹⁾
G7	Extension length 'T' [mm]	0...100
G8'	Flange nominal size	50 - 1/2", 75 - 3/4", 100 - 1", 125 - 1 1/4", 150 - 1 1/2", 200 - 2", Z - other (specify!) ⁽²⁾
G8"	Flange nominal pressure (class)	150 - 10 bar (150 psig), 300 - 20 bar (300 psig), 600 - 40 bar (600 psig), 900 - 60 bar (900 psig), 1500 - 100 bar (1500 psig)
G9	Probe thread 'N' ⁽¹⁾	U9 - 3/8" NPT, U10 - 1/2" NPT, U11 - 3/4" NPT, Z - other (specify!) ⁽²⁾
G10'	Body material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571 ⁽²⁾ , M9 - 1.4404 or 1.4435, Z - other (specify!) ⁽²⁾
G10"	Flange material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571 ⁽²⁾ , M9 - 1.4404 or 1.4435, Z - other (specify!) ⁽²⁾
G14	Flange face	A - flat (FF), B - raised (RF), D - groove, F - recess, G - O-ring recess, H - O-ring groove

⁽¹⁾ Applicable for the selected probe diameter 'd'
⁽²⁾ Contact COMECO!

COMECO reserves the right of changing specifications without prior notice!