

Flanged Bored Thermowell BYPFB

DIN-FLANGED BORED THERMOWELL BYPFB		DIMENSIONS *						
Material - stainless steel (see Appendix - Sheath materials) Application - with temperature gauges and TS probes		N	H2 [mm]	H1 [mm]	F2 [mm]	d1 [mm]	F3 [mm]	F1 [mm]
<p>$L = U + b + H1$ (flat face) or $L = U + b + H1 + 2$ (raised face)</p>		M14x1.5, G3/8"	15	20	22	4 / 5.5	13 / 15	≈ 18
		M18x1.5	20	25	28	7	17	≈ 24
		M20x1.5, G1/2"	20	25	30	7 / 9	17 / 19	≈ 26
		M27x2, G3/4"	25	30	35	7 / 9 / 11	17 / 19 / 21	≈ 31
Probe diameter: $d = d1 - 1$ Probe thread: $G = N$ Probe length: $n = 0.98 * L - e$ (fixed) or $n \approx L - e$ (spring-loaded) Maximum temperature: 850 °C Maximum pressure: 40 bar							INSERTION LENGTH	
							d1 [mm]	U [mm]
							< 7	max. 300
							7...9	max. 500
							11	max. 700
FLANGE DIMENSIONS *								
NOMINAL SIZE	D [mm]	k [mm]	b [mm]	d2 [mm]	bolts			
DN10	90	60	14	14	4 x M12			
DN15	95	65	16					
DN20	105	75						
DN25	115	85	18	18	4 x M16			
DN32	140	100						
DN40	150	110						
DN50	165	125	20					
							Flange type: DIN 2527 or EN DIN 1092-1	
							Maximum pressure: PN40	
* Other dimensions are available on request. Please contact BASI!								

Ordering code BYPFB - G4.G6.G8.G9.G10.G14

Code	Feature or option	Code values
G4	Probe diameter 'd' [mm]	3, 4.5, 5, 6, 8, 10
G6	Length 'U' [mm]	50...700 (see table above) ⁽¹⁾
G8	Flange nominal size	DN10 ⁽²⁾ , DN15, DN20, DN25, DN32, DN40, DN50, Z - other (specify!) ⁽²⁾
G9	Probe thread 'N' ⁽¹⁾	Q1 - M18x1.5, Q2 - M20x1.5, Q3 - G3/8", Q4 - G1/2", Q5 - M27x2, Q6 - G3/4", Q8 - M14x1.5, Z - other (specify!) ⁽²⁾
G10	Material	M1 - 1.4301, 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 BASI!

ANSI-FLANGED BORED THERMOWELL		BYPFBA		DIMENSIONS *									
Material - stainless steel (see Appendix - Sheath materials) Application - with temperature gauges and TS probes				N	H2 [mm]	H1 [mm]	F2 [mm]	d1 [mm]	F3 [mm]	F1 [mm]			
				3/8" NPT	20	25	28	4 / 5.5	13 / 15	≈ 24			
				1/2" NPT	25	30	32	7 / 9	17 / 19	≈ 28			
				3/4" NPT	30	35	35	7 / 9 / 11	17 / 19 / 21	≈ 31			
<p>L = U + b + H1 (flat face) or L = U + RF + b + H1 (raised face)</p>		Probe diameter: d = d1 - 1 Probe thread: G = N Probe length: n = 0.98 * L - e (fixed) or n ≈ L - e (spring-loaded) Maximum temperature: 850 °C Maximum pressure: 40 bar								INSERTION LENGTH			
				d1 [mm]		U [mm]							
				< 7		max. 300							
				7...9		max. 500							
		11		max. 700									
		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		Flange type: ANSI B16.5 Maximum pressure: class 150 - 150 psig class 300 - 300 psig class 600 - 600 psig (to fit thermowell specifications)		
			300	95.2	66.5	12.7	6.3						
			600	117.3	82.5	14.2	6.3						
		3/4"	150	98.6	69.8	11.2	1.5	19	4				
			300	117.3	82.5	14.2	6.3						
			600	124	88.9	16	6.3						
		1"	150	108	79.2	12.7	1.5	15.7			4		
			300	124	88.9	17.5	6.3						
			600	117.3	98.6	14.2	6.3						
		1 1/4"	150	117.3	98.6	18	1.5	15.7	4				
			300	133.4	114.3	20.6	6.3						
			600	127	98.6	16	6.3						
		1 1/2"	150	127	98.6	16	1.5	15.7			4		
			300	155.4	114.3	19	6.3						
			600	152.4	120.6	22.3	6.3						
		2"	150	152.4	120.6	17.5	1.5	19	8				
			300	165.1	127	20.8	6.3						
			600	165.1	127	25.4	6.3						
		* Other dimensions are available on request. Please contact BASI!											

Ordering code BYPFBA - G4.G6.G8'/8".G9.G10.G14

Code	Feature or option	Code values
G4	Probe diameter 'd' [mm]	3, 4.5, 5, 6, 8, 10
G6	Length 'U' [mm]	50...700 (see table above) ⁽¹⁾
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)
G9	Probe thread 'N' ⁽¹⁾	Q9 - 3/8" NPT, Q10 - 1/2" NPT, Q11 - 3/4" NPT, Z - other (specify!) ⁽²⁾
G10	Material	M1 - 1.4301, 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'
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