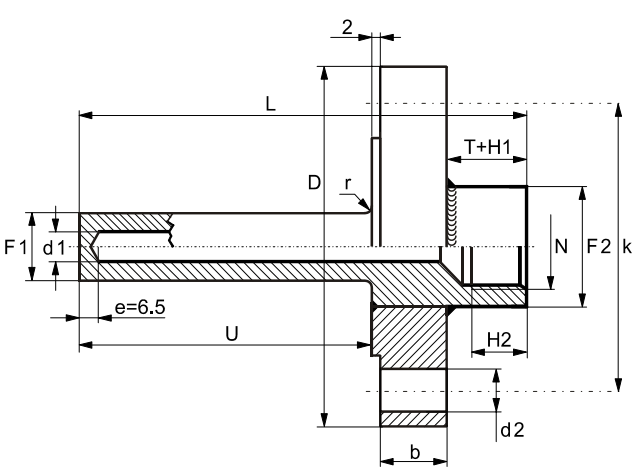


Flanged Bored Straight Thermowell YPFS

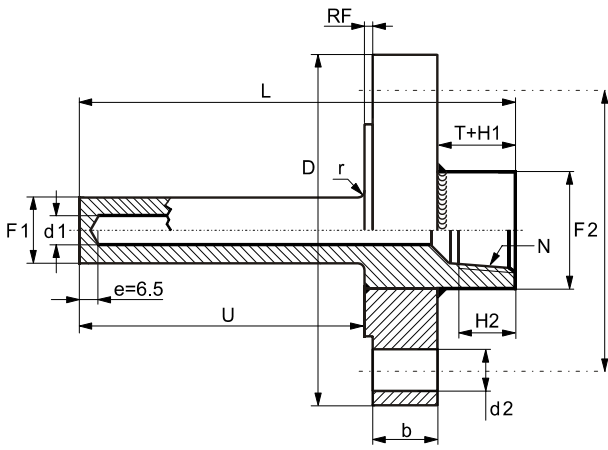
DIN-FLANGED BORED STRAIGHT THERMOWELL YPFS		DIMENSIONS *						
Material - stainless steel (see Appendix - Sheath materials) Application - with temperature gauges and TS probes		N	H2 [mm]	H1 [mm]	F2 [mm]	d1 [mm]	F1 [mm]	
 <p>$L = U + b + T + H1$ (flat face) or $L = U + b + T + H1 + 2$ (raised face)</p> <p>Fillet radius: r = 1...3 mm</p> <p>Full penetration weld design is also available on request.</p>		M14x1.5, G3/8"	15	20	22	4 / 5.5	13...19	
		M18x1.5	20	25	28	7	15...21	
		M20x1.5, G1/2"	20	25	30	7 / 9	15...21 / 17...21	
		M27x2, G3/4"	25	30	35	7 / 9 / 11	15...21 / 17...21 / 21	
		Probe diameter: d = d1 - 1 Probe thread: G = N Probe length (incl. thread): $n = 0.98 * L - e$ (fixed) or $n \approx L - e + 1$ (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 *						
		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				
		DN25	115	85	16	18	4 x M16	
		DN32	140	100				
		DN40	150	110	20	18	4 x M16	
		DN50	165	125				
		Flange type: DIN 2527 or EN DIN 1092-1 Maximum pressure: PN40						
		* Other dimensions are available on request. Please contact COMECO!						

Ordering code YPFS - G4.G5.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
G5	Insertion diameter 'F1' [mm]	13...21 (see table above) ⁽¹⁾
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!

COMECO reserves the right of changing specifications without prior notice!

ANSI-FLANGED BORED STRAIGHT THERMOWELL YPFSa		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]									
 <p>$L = U + b + T + H1$ (flat face) or $L = U + RF + b + T + H1$ (raised face) Fillet radius: $r = 1...3$ mm Full penetration weld design is also available on request.</p>		3/8" NPT	15	25	28	4 / 5.5	13...21									
		1/2" NPT	20	30	32	7 / 9	15...21 / 17...21									
		3/4" NPT	20	35	35	7 / 9 / 11	15...21 / 17...21 / 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 <table border="1"> <thead> <tr> <th>d1 [mm]</th> <th>U [mm]</th> </tr> </thead> <tbody> <tr> <td>< 7</td> <td>max. 300</td> </tr> <tr> <td>7...9</td> <td>max. 700</td> </tr> <tr> <td>11</td> <td>max. 1000</td> </tr> </tbody> </table>		d1 [mm]	U [mm]	< 7	max. 300	7...9	max. 700	11	max. 1000
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	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!						
		1/2"	150 300 600	88.9 95.2	60.5 66.5	9.7 12.7 14.2	1.5	15.7								
		3/4"	900	120.6	82.5	22.3	6.3	22.3	4							
			150	98.6	69.8	11.2		15.7								
			300	117.3	82.5	14.2		19								
		1"	600	130	88.9	25.4	6.3	22.3	4							
			150	108	79.2	12.7		15.7								
			300	124	88.9	16		19								
		1 1/4"	600	149.3	101.6	28.4	6.3	25.4	4							
			150	117.3	88.9	14.2		15.7								
			300	133.4	98.6	18		19								
		1 1/2"	600	158.7	111.2	28.4	6.3	25.4	4							
			150	127	98.6	16		15.7								
			300	155.4	114.3	19		22.3								
		2"	600	177.8	123.9	31.7	6.3	28.4	8							
			150	152.4	120.6	17.5		19								
			300	165.1	127	20.8		25.4								
		600	215.9	165.1	38.1	6.3	25.4									

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

Ordering code YPFSa - G4.G5.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
G5	Insertion diameter 'F1' [mm]	13...21 (see table above) ⁽¹⁾
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!