

**Flanged Welded Thermowell YPFW**

DIN-FLANGED WELDED THERMOWELL Material - stainless steel (see Appendix - Sheath materials) Application - with temperature gauges and TS probes	YPFWD	DIMENSIONS *			
		N	H [mm]	F2 [mm]	F1 x s [mm]
<p><math>L = U + b + H</math> (flat face) or <math>L = U + b + H + 2</math> (raised face)</p>	M14x1.5, G3/8"	15	18	10x1.5, 10.2x2 (1/8"), 12x1.5, 13.5x2.35 (1/4"), 14x2	
	M18x1.5	20	24	10x1.5, 10.2x2 (1/8"), 12x1.5, 13.5x2.35, 14x2 (1/4") 16x2, 17.2x2.35, 18x2, 20x2, 21.3x2.6 (1/2")	
	M20x1.5, G1/2"	20	26		
	M27x2, G3/4"	25	32		
	<b>Probe diameter:</b> $d < d1$ or $(F1 - 2s)$ <b>Probe thread:</b> $G = N$ <b>Probe length (incl. thread):</b> $n = 0.98 * L - e$ (fixed) or $n \approx L - e$ (spring-loaded) <b>Maximum temperature:</b> 850 °C <b>Maximum pressure:</b> 25 bar ( $s = 1.5$ ) or 40 bar ( $s \geq 2$ )				
<b>FLANGE DIMENSIONS *</b>				<b>INSERTION LENGTH</b>	
				F1 [mm]	U [mm]
				≤ 12	max. 500
				13...14	max. 1000
				16...18	max. 1500
				18...20	max. 2000
				≥ 20	max. 2500
				<b>Flange type:</b> DIN 2527 or EN DIN 1092-1	
				<b>Maximum pressure:</b> PN10...PN40 (to fit thermowell specifications)	
				* Other dimensions are available on request. Please contact COMECO!	

**Ordering code** YPFWD - G4.G6.G8.G9.G10.G14

Code	Feature or option	Code values
G4	Tube diameter 'F1' [mm]	10, 10.2 <sup>(2)</sup> , 12, 13.5 <sup>(2)</sup> , 14, 16, 17.2, 18, 20, 21.3
G6	Length 'U' [mm]	50...2500 (see table above) <sup>(1)</sup>
G8	Flange nominal size	DN10 <sup>(2)</sup> , DN15, DN20, DN25, DN32, DN40, DN50, Z - other (specify!) <sup>(2)</sup>
G9	Probe thread 'N' <sup>(1)</sup>	U1 - M18x1.5, U2 - M20x1.5, U3 - G3/8", U4 - G1/2", U5 - M27x2, U6 - G3/4", U8 - M14x1.5, Z - other (specify!) <sup>(2)</sup>
G10	Material	M1 - 1.4301, M2 - 1.4541 <sup>(2)</sup> , M3 - 1.4571 <sup>(2)</sup> , M9 - 1.4404 or 1.4435, Z - other (specify!) <sup>(2)</sup>
G14	Flange face	A - flat (FF), B - raised (RF), D - groove, F - recess, G - O-ring recess, H - O-ring groove

<sup>(1)</sup> Applicable for the selected tube diameter 'F1'  
<sup>(2)</sup> Contact COMECO!

ANSI-FLANGED WELDED THERMOWELL		YPFWA	DIMENSIONS *								
Material - stainless steel (see Appendix - Sheath materials) Application - with temperature gauges and TS probes			N	H [mm]	F2 [mm]	F1 x s [mm]					
			3/8" NPT	20	18	10x1.5, 10.2x2 (1/8"), 12x1.5, 13.5x2.35 (1/4"), 14x2					
			1/2" NPT	25	26	10x1.5, 10.2x2 (1/8"), 12x1.5, 13.5x2.35, 14x2 (1/4")					
			3/4" NPT	30	32	16x2, 17.2x2.35, 18x2, 20x2, 21.3x2.6 (1/2")					
<p style="text-align: center;"> <math>L = U + b + H</math> (flat face) or  <math>L = U + RF + b + H</math> (raised face)                 </p>			<b>Probe diameter:</b> $d < d1$ or (F1-2s) <b>Probe thread:</b> $G = N$ <b>Probe length (incl. thread):</b> $n = 0.98 * L - e + 0.4 * H$ (fixed) or $n \approx L - e + 0.4 * H$ (spring-loaded) <b>Maximum temperature:</b> 850 °C <b>Maximum pressure:</b> 25 bar (s = 1.5) or 40 bar (s ≥ 2)				<b>INSERTION LENGTH</b>				
			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	<b>Flange type:</b> ANSI B16.5  <b>Maximum pressure:</b> 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			14.2	6.3			
			3/4"	150	98.6	69.8	11.2	1.5	19		
				300			14.2	6.3			
				600	117.3	82.5	15.7	6.3			
			1"	150	108	79.2	12.7	1.5	15.7		
				300			16	6.3			
				600	124	88.9	17.5	6.3			
			1 1/4"	150	117.3		14.2	1.5	19		
				300			18	6.3			
				600	133.4	98.6	20.6	6.3			
			1 1/2"	150	127		16	1.5	15.7		
				300			19	6.3			
				600	155.4	114.3	22.3	6.3			
			2"	150	152.4	120.6	17.5	1.5	19		
				300			20.8	6.3			
				600	165.1	127	25.4	6.3			
			* Other dimensions are available on request. Please contact COMECO!								

**Ordering code** YPFWA - G4.G6.G8'8".G9.G10.G14

Code	Feature or option	Code values
G4	Tube diameters 'F1' [mm]	10, 10.2 <sup>(2)</sup> , 12, 13.5 <sup>(2)</sup> , 14, 16, 17.2, 18, 20, 21.3
G6	Length 'U' [mm]	50...2500 (see table above) <sup>(1)</sup>
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!) <sup>(2)</sup>
G8"	Flange nominal pressure (class)	150 - 10 bar (150 psig), 300 - 20 bar (300 psig), 600 - 40 bar (600 psig)
G9	Probe thread 'N' <sup>(1)</sup>	U9 - 3/8" NPT, U10 - 1/2" NPT, U11 - 3/4" NPT, Z - other (specify!) <sup>(2)</sup>
G10	Material	M1 - 1.4301, M2 - 1.4541 <sup>(2)</sup> , M3 - 1.4571 <sup>(2)</sup> , M9 - 1.4404 or 1.4435, Z - other (specify!) <sup>(2)</sup>
G14	Flange face	A - flat (FF), B - raised (RF), D - groove, F - recess, G - O-ring recess, H - O-ring groove

<sup>(1)</sup> Applicable for the selected tube diameter 'F1'

<sup>(2)</sup> Contact COMECO!