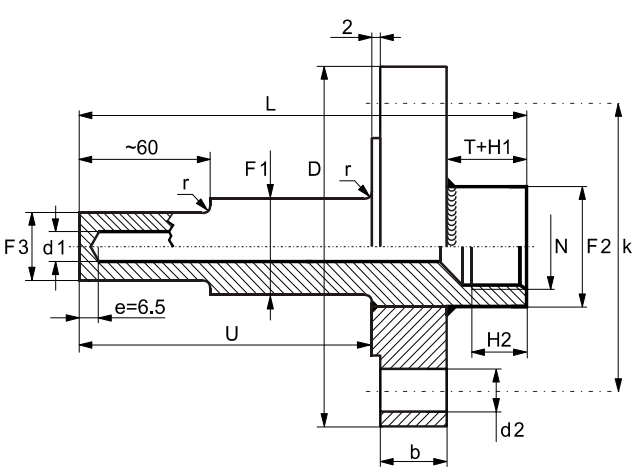


Flanged Bored Step-Tip Thermowell YPFN

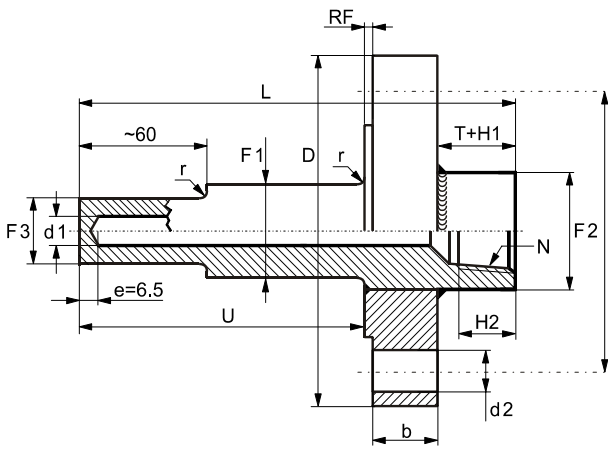
DIN-FLANGED BORED STEP-TIP THERMOWELL YPFN		DIMENSIONS *						
Material - stainless steel (see Appendix - Sheath materials) Application - with temperature gauges and TS probes		N	H2 [mm]	H1 [mm]	F2 [mm]	d1 [mm]	F1 [mm]	F3 [mm]
 <p>$L = U + b + T + H1$ (flat face) or $L = U + b + T + H1 + 2$ (raised face)</p> <p>Fillet radius: $r = 1...3$ mm</p> <p>Full penetration weld design is also available on request.</p>		M14x1.5, G3/8"	15	20	22	4 / 5.5	≈ 18	13...16
		M18x1.5	20	25	28	7	≈ 24	15...21
		M20x1.5, G1/2"	20	25	30	7 / 9	≈ 26	15 / 17...21
		M27x2, G3/4"	25	30	35	7 / 9 / 11	≈ 26 / 30	15 / 17 / 21...25
		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						
FLANGE DIMENSIONS *							d1 [mm]	U [mm]
NOMINAL SIZE	D [mm]	k [mm]	b [mm]	d2 [mm]	bolts	Flange type: DIN 2527 or EN DIN 1092-1		
DN10	90	60	14	14	4 x M12	Maximum pressure: PN40		
DN15	95	65	14					
DN20	105	75	16					
DN25	115	85	16	18	4 x M16			
DN32	140	100	18					
DN40	150	110	18					
DN50	165	125	20	18	4 x M16			
* Other dimensions are available on request. Please contact COMECO!								

Ordering code YPFN - 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	Step-tip diameter 'F3' [mm]	13...25 (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!

ANSI-FLANGED BORED STEP-TIP THERMOWELL YPFNA		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>Full penetration weld design is also available on request.</p>		3/8" NPT	15	25	28	4 / 5.5	≈ 24	13...21									
		1/2" NPT	20	30	32	7 / 9	≈ 27	15 / 17...23									
		3/4" NPT	20	35	35	7 / 9 / 11	≈ 26 / 30	15 / 17 / 21...25									
		Probe diameter: $d = d1 - 1$ Probe thread: $G = N$ Probe length (incl. thread): $n = 0.98 * L - e$ (fixed) or $n ≈ L$ (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								
		1/2"	150	88.9	60.5	9.7	1.5	15.7	4								
			300	95.2	66.5	12.7											
			600	95.2	66.5	14.2											
		3/4"	150	98.6	69.8	11.2	1.5	15.7									
			300	117.3	82.5	14.2											
			600	117.3	82.5	15.7											
		1"	150	108	79.2	12.7	1.5	15.7									
			300	124	88.9	16											
			600	124	88.9	17.5											
		1 1/4"	150	117.3	88.9	14.2	1.5	15.7									
			300	133.4	98.6	18											
			600	133.4	98.6	20.6											
		1 1/2"	150	127	98.6	16	1.5	15.7									
			300	155.4	114.3	19											
			600	155.4	114.3	22.3											
		2"	150	152.4	120.6	17.5	1.5	19									
			300	165.1	127	20.8											
			600	165.1	127	25.4											
		900	215.9	165.1	38.1	6.3	25.4	8									
		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 YPFNA - 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	Step-tip diameter 'F3' [mm]	13...25 (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!