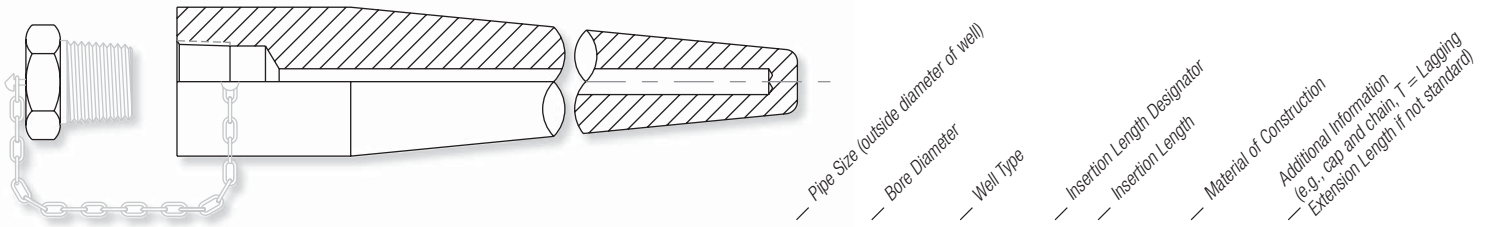


Weld-In Thermowells

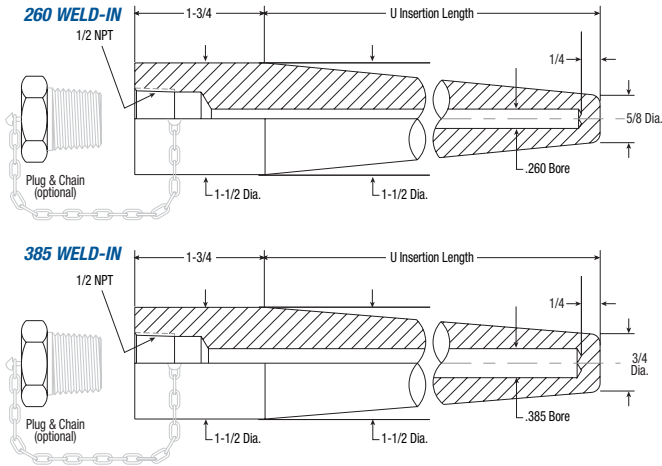


Example: **1.50-260WELDIN-U 7.50-S316,T=3.50"**

Pipe Size	Bore Diameter	Well Type	U	.50	Material of Construction	Additional Information
1.50 = 1-1/2"	260 - for 0.250" diameter probes 385 - for 0.375" diameter probes	WELDIN – Weld In	Insertion Length Designator	Insertion Length in Inches (2.50" min.)	S304 – Stainless Steel S316 – 316 Stainless Steel F11 – Chrome Molybdenum Steel F22 – Chrome Molybdenum Steel F91 – Chrome Molybdenum Steel CS – Carbon Steel	

Note: Specific material grade specifications may be added to callout, e.g. S316(A182). Other materials (titanium, Hastelloy, Monel, S316L, etc.) are available. Consult factory for details.

Ordering Information



Thread Size	Type Number	Elem. Length A	Insert Length U	Bore Diameter B	
1-1/2	260 WELDIN	U 2-1/2	4	2-1/2	0.260
		U 4-1/2	6	4-1/2	
		U 7-1/2	9	7-1/2	
		U 10-1/2	12	10-1/2	
		U 13-1/2	15	13-1/2	
		U 16-1/2	18	16-1/2	
1-1/2	385 WELDIN	U 2-1/2	4	2-1/2	0.385
		U 4-1/2	6	4-1/2	
		U 7-1/2	9	7-1/2	
		U 10-1/2	12	10-1/2	
		U 13-1/2	15	13-1/2	
		U 16-1/2	18	16-1/2	

Well Type	Material	MAXIMUM FLUID VELOCITY – feet per second*								PRESSURE - TEMPERATURE RATING						
		Insertion Length - U								Temperature - F						
		2-1/2	4-1/2	7-1/2	10-1/2	13-1/2	16-1/2	19-1/2	22-1/2	70°	200°	400°	600°	800°	1000°	1200°
1-1/2-260 WELDIN	Carbon Steel	493 (306)	220 (170)	79.4	40.5	24.5	16.4	11.7	8.8	5950	5750	5450	5250	4000	1750	–
	A.I.S.I. 304	539 (443)	233.5 (231)	84.0	42.8	25.9	17.3	12.4	9.3	7800	7050	6400	6150	6000	5190	1875
	A.I.S.I. 316	539 (443)	233.5 (231)	84.0	42.8	25.9	17.3	12.4	9.3	7800	7800	7250	7100	6950	5800	2720
	F-11	549 (451)	237 (235)	85.5	43.0	26.4	17.6	12.6	9.5	7350	7350	7350	7350	7350	2898	504
	F-22	549 (451)	237 (235)	85.5	43.0	26.4	17.6	12.6	9.5	7224	7224	7224	7224	7098	3192	546
1-1/2-385 WELDIN	Carbon Steel	451 (286)	269 (159)	96.9	49.0	29.9	20.0	14.0	10.7	5200	5000	4800	4600	3500	1500	–
	A.I.S.I. 304	531 (385)	285 (220)	102	52.0	31.6	21.2	15.0	11.4	7000	6200	5600	5400	5200	4500	1650
	A.I.S.I. 316	531 (385)	285 (220)	102	52.0	31.6	21.2	15.0	11.4	7000	7000	6400	6200	6100	5100	2500
	F-11	542 (392)	290 (224)	104	53.2	32.0	21.5	15.4	11.6	6562	6562	6562	6562	6562	2587	450
	F-22	542 (392)	290 (224)	104	53.2	32.0	21.5	15.4	11.6	6450	6450	6450	6450	6337	2850	487

* Maximum velocity rating is based on operating temperatures of 1000° F for wells made of carbon steel, 304SST and 316SST; 350° F for wells made of brass; and 900° F for wells made of Monel. Slightly higher velocity is possible at lower temperatures. In these tables, single numbers represent the safe values for water, steam, air or gas. In the shorter insertion lengths, consideration is given to the velocity pressure effect of water flowing at higher velocities. In these cases, the values in parentheses represent safe values for water flow, and the unbracketed values may be used for steam, air, gas and similar density fluids.



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