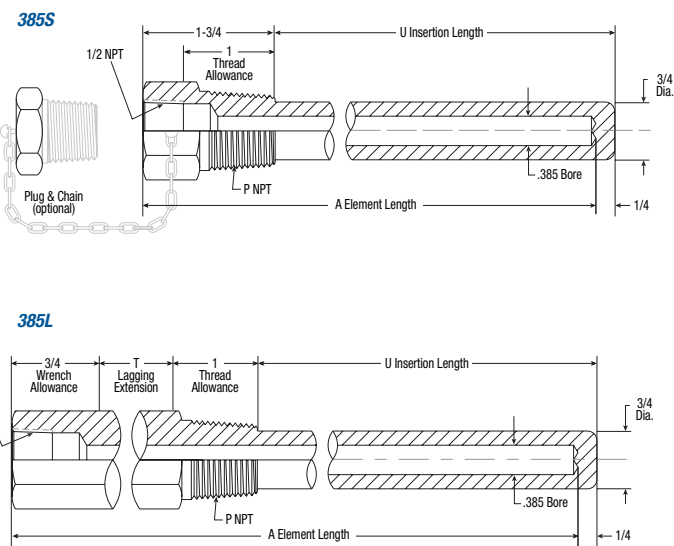
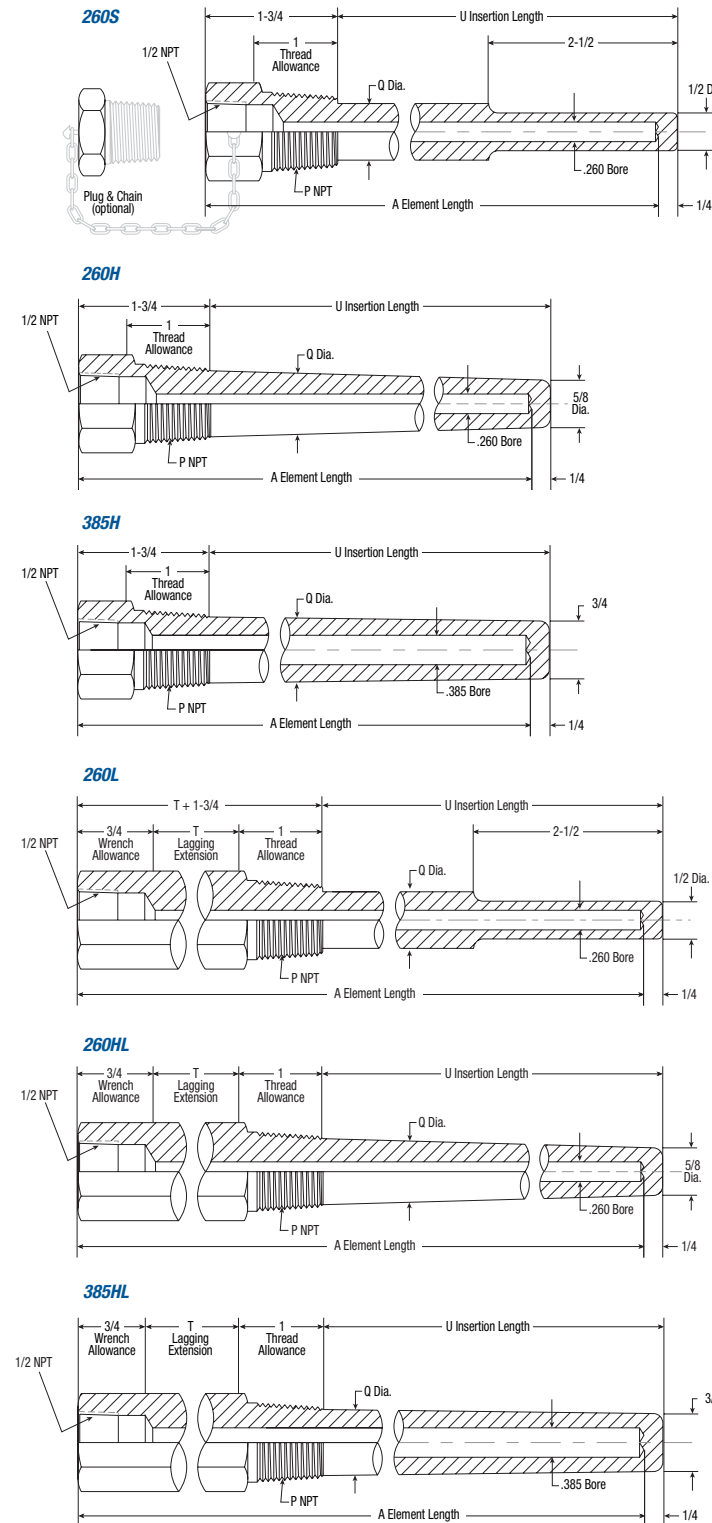


## Ordering Information



External Thread P	Type Number	Lag. Ext. T	Elem. Length A	Insert Length U
3/4 NPT	385S	U 2-1/2	4	2-1/2
		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 NPT	385S	U 2-1/2	4	2-1/2
		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
3/4 NPT	385L	U 2-1/2	2	2-1/2
		U 4-1/2	3	4-1/2
		U 7-1/2	3	7-1/2
		U 10-1/2	3	10-1/2
		U 13-1/2	3	13-1/2
		U 19-1/2	3	19-1/2
1 NPT	385L	U 2-1/2	2	2-1/2
		U 4-1/2	3	4-1/2
		U 7-1/2	3	7-1/2
		U 10-1/2	3	10-1/2
		U 13-1/2	3	13-1/2
		U 19-1/2	3	19-1/2

## Ordering Information



External Thread P	Type Number	Lag. Ext. T	Elem. Length A	Insert Length U	Shank Diameter Q
1/2 NPT	260S	U 2-1/2	4	2-1/2	-
		U 4-1/2	6	4-1/2	5/8
		U 7-1/2	9	7-1/2	5/8
		U 10-1/2	12	10-1/2	5/8
		U 13-1/2	15	13-1/2	5/8
		U 16-1/2	18	16-1/2	5/8
3/4 NPT	260S	U 2-1/2	4	2-1/2	-
		U 4-1/2	6	4-1/2	3/4
		U 7-1/2	9	7-1/2	3/4
		U 10-1/2	12	10-1/2	3/4
		U 13-1/2	15	13-1/2	3/4
		U 16-1/2	18	16-1/2	3/4
	260H 385H	U 2-1/2	4	2-1/2	7/8
		U 4-1/2	6	4-1/2	7/8
		U 7-1/2	9	7-1/2	7/8
		U 10-1/2	12	10-1/2	7/8
		U 13-1/2	15	13-1/2	7/8
		U 16-1/2	18	16-1/2	7/8
1 NPT	260S	U 2-1/2	4	2-1/2	7/8
		U 4-1/2	6	4-1/2	7/8
		U 7-1/2	9	7-1/2	7/8
		U 10-1/2	12	10-1/2	7/8
		U 13-1/2	15	13-1/2	7/8
		U 16-1/2	18	16-1/2	7/8
	260H 385H	U 2-1/2	4	2-1/2	1-1/16
		U 4-1/2	6	4-1/2	1-1/16
		U 7-1/2	9	7-1/2	1-1/16
		U 10-1/2	12	10-1/2	1-1/16
		U 13-1/2	15	13-1/2	1-1/16
		U 16-1/2	18	16-1/2	1-1/16
1/2 NPT	260L	U 2-1/2	2	2-1/2	-
		U 4-1/2	3	4-1/2	5/8
		U 7-1/2	3	7-1/2	5/8
		U 10-1/2	3	10-1/2	5/8
		U 13-1/2	3	13-1/2	5/8
		U 19-1/2	3	19-1/2	5/8
3/4 NPT	260L	U 2-1/2	2	2-1/2	-
		U 4-1/2	3	4-1/2	3/4
		U 7-1/2	3	7-1/2	3/4
		U 10-1/2	3	10-1/2	3/4
		U 13-1/2	3	13-1/2	3/4
		U 19-1/2	3	19-1/2	3/4
1 NPT	260HL 385HL	U 2-1/2	2	2-1/2	7/8
		U 4-1/2	3	4-1/2	7/8
		U 7-1/2	3	7-1/2	7/8
		U 10-1/2	3	10-1/2	7/8
		U 13-1/2	3	13-1/2	7/8
		U 19-1/2	3	19-1/2	7/8
1 NPT	260L	U 2-1/2	2	2-1/2	-
		U 4-1/2	3	4-1/2	7/8
		U 7-1/2	3	7-1/2	7/8
		U 10-1/2	3	10-1/2	7/8
		U 13-1/2	3	13-1/2	7/8
		U 19-1/2	3	19-1/2	7/8
1 NPT	260HL 385HL	U 2-1/2	2	2-1/2	1-1/16
		U 4-1/2	3	4-1/2	1-1/16
		U 7-1/2	3	7-1/2	1-1/16
		U 10-1/2	3	10-1/2	1-1/16
		U 13-1/2	3	13-1/2	1-1/16
		U 19-1/2	3	19-1/2	1-1/16



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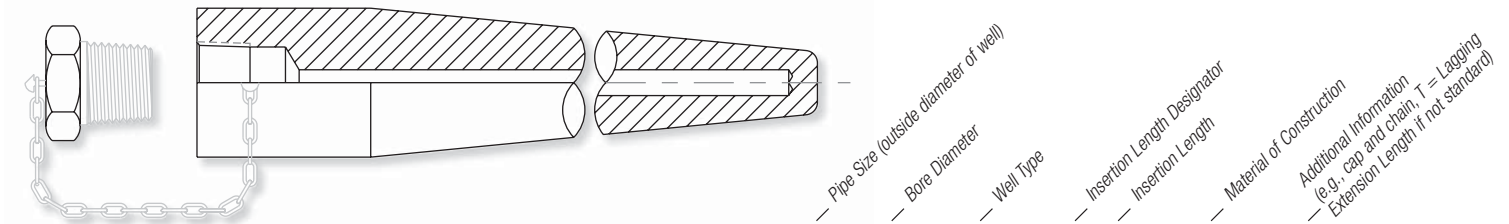
# Threaded Thermowells

# Weld-In Thermowells

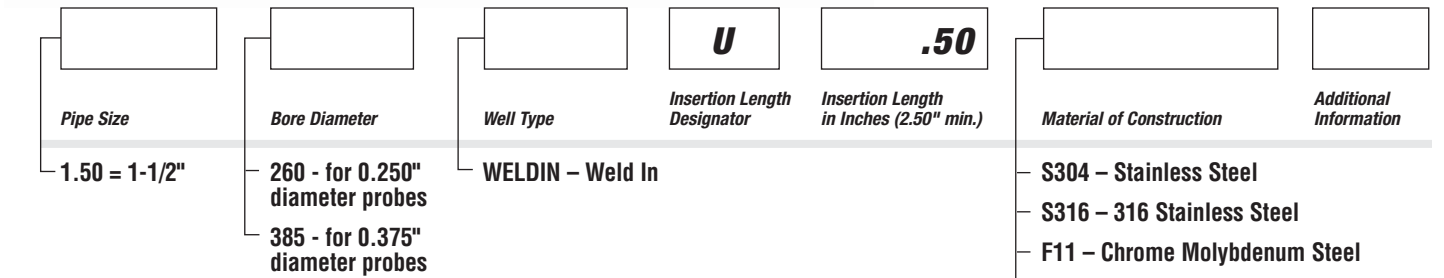
## Ordering Information

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°
3/4-260H 3/4-260HL	Brass	305 (97.5)	93.8 (54.1)	33.9	17.1	10.5	7.0	5.0	3.7	5300	4750	1100	–	–	–	–
	Carbon Steel	386 (175)	180 (97.2)	65.3 (59.3)	33.0	20.1	13.4	9.6	7.1	5950	5750	5450	5250	4000	1750	–
	A.I.S.I. 304	440 (243)	197 (135)	71.2	36.0	22.0	14.7	10.5	7.8	7800	7050	6400	6150	6000	5190	1875
	A.I.S.I. 316	440 (243)	197 (135)	71.2	36.0	22.0	14.7	10.5	7.8	7800	7800	7250	7100	6950	5800	2720
	Monel	354 (195)	155 (108)	56.1	28.4	17.3	11.6	7.5	5.6	7450	6850	6150	6100	5940	1750	–
1-260H 1-260HL	Brass	354 (161)	108 (89.5)	39.4	19.8	12.2	8.1	5.8	4.3	5300	4750	1100	–	–	–	–
	Carbon Steel	448 (289)	209 (161)	75.7	38.4	23.3	15.5	11.1	8.2	5950	5750	5450	5250	4000	1750	–
	A.I.S.I. 304	490 (403)	228 (225)	82.5	41.8	25.5	17.1	12.2	9.1	7800	7050	6400	6150	6000	5190	1875
	A.I.S.I. 316	490 (403)	228 (225)	82.5	41.8	25.5	17.1	12.2	9.1	7800	7800	7250	7100	6950	5800	2720
	Monel	410 (322)	179 (178)	65.1	33.0	20.1	13.5	8.7	6.5	7450	6850	6150	6100	5940	1750	–
3/4-385H 3/4-385HL	Brass	276 (127)	124 (79)	44.0	22.0	13.0	8.0	6.0	4.0	5000	4200	1000	–	–	–	–
	Carbon Steel	352 (228)	191 (114)	68.9	35.0	21.0	14.0	10.0	7.5	5200	5000	4800	4600	3500	1500	–
	A.I.S.I. 304	415 (299)	203 (154)	73.2	37.3	22.5	15.0	11.0	8.0	7000	6200	5600	5400	5200	4500	1650
	A.I.S.I. 316	415 (299)	203 (154)	73.2	37.3	22.5	15.0	11.0	8.0	7000	7000	6400	6200	6100	5100	2500
	Monel	340 (195)	172 (134)	62.0	31.0	19.0	12.8	8.0	6.0	6500	6000	5400	5300	5200	1500	–
1-385H 1-385HL	Brass	321 (150)	129 (83.5)	46.8	23.6	14.5	9.6	6.9	5.1	5000	4200	1000	–	–	–	–
	Carbon Steel	410 (270)	249 (150)	90.3	45.6	27.8	18.5	13.2	9.8	5200	5000	4800	4600	3500	1500	–
	A.I.S.I. 304	483 (350)	272 (208)	97.3	49.7	30.4	20.3	14.5	10.7	7000	6200	5600	5400	5200	4500	1650
	A.I.S.I. 316	483 (350)	272 (208)	97.3	49.7	30.4	20.3	14.5	10.7	7000	7000	6400	6200	6100	5100	2500
	Monel	396 (306)	214 (167)	77.5	39.2	23.8	16.0	10.3	7.7	6500	6000	5400	5300	5200	1500	–
3/4-385S 3/4-385L 1-385S 1-385L	Brass	290 (145)	150 (80)	54.1 (49)	27.6	16.7	11.1	8.0	6.0	5000	4200	1000	–	–	–	–
	Carbon Steel	326 (260)	192 (144)	69.5	35.4	20.5	14.3	10.3	7.7	5200	5000	4800	4600	3500	1500	–
	A.I.S.I. 304	349 (360)	199	71.9	36.6	21.2	14.8	10.7	8.0	7000	6200	5600	5400	5200	4500	1650
	A.I.S.I. 316	349 (360)	199	71.9	36.6	21.2	14.8	10.7	8.0	7000	7000	6400	6200	6100	5100	2500
	Monel	316 (320)	189 (178)	68.1	34.8	20.8	14.0	10.0	7.5	6500	6000	5400	5300	5200	1500	–
1/2-260L 1/2-260S	Brass	207 (59.3)	75.5 (32.2)	27.3 (19.7)	13.9	8.4	5.6	4.1	3.0	5000	4200	1000	–	–	–	–
	Carbon Steel	290 (106)	105 (59)	38.2 (36.3)	19.4	11.8	7.8	5.7	4.2	5200	5000	4800	4600	3500	1500	–
	A.I.S.I. 304	300 (148)	109 (82.2)	39.5	20.1	12.2	8.1	5.9	4.4	7000	6200	5600	5400	5200	4500	1650
	A.I.S.I. 316	300 (148)	109 (82.2)	39.5	20.1	12.2	8.1	5.9	4.4	7000	7000	6400	6200	6100	5100	2500
	Monel	261 (118)	95 (65.5)	34.4	17.5	10.5	7.1	5.2	3.8	6500	6000	5400	5300	5200	1500	–
3/4-260S 3/4-260L	Brass	207 (59.3)	89.1 (39.8)	32.2 (23.9)	16.4	9.9	6.6	4.8	3.6	5000	4200	1000	–	–	–	–
	Carbon Steel	290 (106)	123 (71.2)	44.9 (42.7)	22.8	13.8	9.3	6.7	4.9	5200	5000	4800	4600	3500	1500	–
	A.I.S.I. 304	300 (148)	128 (99.3)	46.4	23.6	14.3	9.6	6.9	5.1	7000	6200	5600	5400	5200	4500	1650
	A.I.S.I. 316	300 (148)	128 (99.3)	46.4	23.6	14.3	9.6	6.9	5.1	7000	7000	6400	6200	6100	5100	2500
	Monel	261 (118)	112 (79.8)	40.6	20.7	12.4	8.3	6.1	4.5	6500	6000	5400	5300	5200	1500	–
1-260S 1-260L	Brass	207 (59.3)	102 (47.6)	37.0 (28)	18.8	11.4	7.6	5.5	4.1	5000	4200	1000	–	–	–	–
	Carbon Steel	290 (106)	143 (84.3)	51.6 (50.6)	26.2	15.9	10.6	7.6	5.7	5200	5000	4800	4600	3500	1500	–
	A.I.S.I. 304	300 (148)	148 (117)	53.5	27.2	16.5	11.0	7.9	5.9	7000	6200	5600	5400	5200	4500	1650
	A.I.S.I. 316	300 (148)	148 (117)	53.5	27.2	16.5	11.0	7.9	5.9	7000	7000	6400	6200	6100	5100	2500
	Monel	261 (118)	128 (93.3)	46.7	23.7	14.4	9.5	6.9	5.1	6500	6000	5400	5300	5200	1500	–

\* 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.

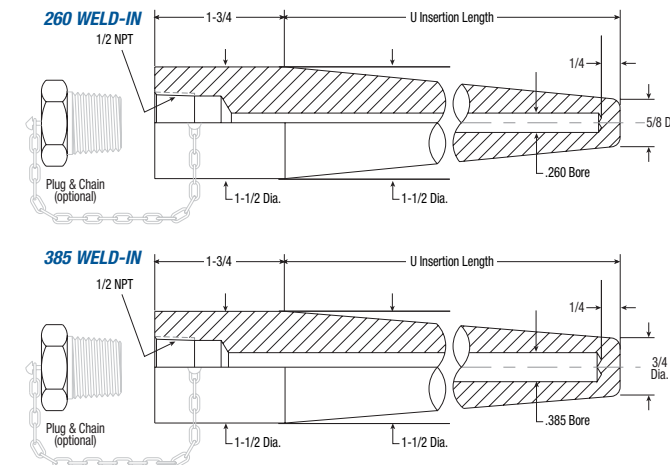


Example: **1.50-260WELDIN-U 7.50-S316,T=3.50"**



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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