

TYPICAL MAXIMUM FLUID VELOCITY FEET PER SECOND

SEE VELOCITY RATING GUIDE SHEET (PAGE TF2)

TABLE NO. 1V - STRAIGHT STEPPED THERMOWELLS

WELL TYPES- 99, 99L, 100, 101, 100L, 101L, 149S, 185, 200, 201, 249H, 260WL, 299L,
300L, 301L, 349HL, 500L, 501L, ¾ 260W, 1 260W

MATERIAL	INSERTION LENGTH- "U"							
	2 1/2	4 1/2	7 1/2	10 1/2	13 1/2	16 1/2	19 1/2	22 1/2
BRASS	207 [59.3]	75.5 [32.2]	27.3 [19.7]	13.9	8.4	5.6	4.1	3
CARBON STEEL	290 [106]	105 [59]	38.2 [36.3]	19.4	11.8	7.8	5.7	4.2
A.I.S.I. 304 A.I.S.I. 316	300 [148]	109 [82.2]	39.5	20.1	12.2	8.1	5.9	4.4
MONEL	261 [118]	95 [65.5]	34.4	17.5	10.5	7.1	5.2	3.8
BRASS	207 [59.3]	89.1 [39.8]	32.2 [23.9]	16.4	9.9	6.6	4.8	3.6
CARBON STEEL	290 [106]	123 [71.2]	44.9 [42.7]	22.8	13.8	9.3	6.7	4.9
A.I.S.I. 304 A.I.S.I. 316	300 [148]	128 [99.3]	46.4	23.6	14.3	9.6	6.9	5.1
MONEL	261 [118]	112 [79.8]	40.6	20.7	12.4	8.3	6.1	4.5
BRASS	207 [59.3]	102 [47.6]	37.0 [28]	18.8	11.4	7.6	5.5	4.1
CARBON STEEL	290 [106]	143 [84.3]	51.6 [50.8]	26.2	15.9	10.6	7.6	5.7
A.I.S.I. 304 A.I.S.I. 316	300 [148]	148 [117]	53.5	27.2	16.5	11	7.9	5.9
MONEL	261 [118]	128 [93.3]	46.7	23.7	14.4	9.5	6.9	5.1

TABLE NO. 2V - TAPERED THERMOWELLS

WELL TYPES- 250H, 251H, 260WH, 260WHL, 350HL, 351HL

WELL TYPE	MATERIAL	INSERTION LENGTH- "U"							
		2 1/2	4 1/2	7 1/2	10 1/2	13 1/2	16 1/2	19 1/2	22 1/2
1/2" EXT THRD AND .260 BORE	BRASS	305 [97.5]	93.8 [54.1]	33.9	17.1	10.5	7	5	3.7
	CARBON STEEL	386 [175]	180 [97.2]	65.3 [58.3]	33	20.1	13.4	9.6	7.1
	A.I.S.I. 304 A.I.S.I. 316	440 [243]	197 [136]	71.2	36	22	14.7	8	7.8
	MONEL	354 [195]	155 [108]	56.1	28.4	17.3	11.6	7.5	5.6
1/2" EXT THRD AND .260 BORE	BRASS	354 [161]	108 [89.5]	39.4	19.8	12.2	8.1	5.8	4.3
	CARBON STEEL	448 [289]	209 [161]	75.7	38.4	23.3	15.5	11.1	8.2
	A.I.S.I. 304 A.I.S.I. 316	490 [403]	228 [225]	82.5	41.8	25.5	17.1	12.2	9.1
	MONEL	410 [322]	179 [178]	65.1	33	20.1	13.5	8.7	6.5

**TYPICAL MAXIMUM FLUID VELOCITY FEET PER SECOND
SEE VELOCITY RATING GUIDE SHEET (PAGE TF2)**

**TABLE NO. 3V
STRAIGHT THERMOWELLS FOR .385
WELL TYPES**

150S, 151S, 325L, 326L, 385W, 385WL, ¾ 385WH, ¾ 385WHL, 450H, 475HL

MATERIAL	INSERTION LENGTH - "U"							
	2 1/2	4 1/2	7 1/2	10 1/2	13 1/2	16 1/2	19 1/2	22 1/2
BRASS	290 [145]	150 [80]	54.1 [48]	27.6	16.7	11.1	8	6
CARBON STEEL	326 [260]	192 [144]	69.5	35.4	20.5	14.3	10.3	7.7
A.I.S.I 304 A.I.S.I. 316	349 [360]	199	71.9	36.6	21.2	14.8	10.7	8
MONEL	316 [320]	189 [178]	68.1	34.8	20.8	14	10	7.5

**TABLE NO. 4V
TAPERED THERMOWELLS FOR .385 DIAMETER ELEMENTS
WELL TYPES**

451H, 476HL, 1" 385WH, 1" 385WHL

MATERIAL	INSERTION LENGTH - "U"							
	2 1/2	4 1/2	7 1/2	10 1/2	13 1/2	16 1/2	19 1/2	22 1/2
BRASS	321 [150]	129 [83.5]	46.8	23.6	14.5	9.6	6.9	5.1
CARBON STEEL	410 [270]	249 [150]	90.3	45.6	27.8	18.5	13.2	9.8
A.I.S.I 304 A.I.S.I. 316	483 [350]	72 [208]	97.3	49.7	30.4	20.3	14.5	10.7
MONEL	396 [300]	214 [167]	77.5	39.2	23.8	16	10.3	7.7

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SEE VELOCITY RATING GUIDE SHEET (PAGE TF2)**

**TABLE NO. 5V – INDUSTRIAL THERMOWELLS
WELL TYPES – 800, 801, 850, 851, 875L, 876L, 877L**

MATERIAL	INSERTION LENGTH- "U"							
	2 9/16	5 1/16	8 1/16	11 1/16	14 1/16	17 1/16	20 1/16	23 1/16
BRASS	259 [52.3]	142 [26.4]	55.8 [16.6]	29.8 [12.1]	18.4 [9.5]	12.5 [7.8]	9.0 [6.7]	6.6
CARBON STEEL	352 [94.6]	198 [48]	77.5 [30.1]	41.4 [22]	27.8 [17.3]	17.3 [14.2]	12.5 [12.1]	9.5
A.I.S.I. 304 A.I.S.I. 316	382 [131]	206 [66.3]	80.9 [41.7]	43.2 [30.2]	26.6 [24.0]	18.1	13.1	9.9
MONEL	277 [105]	179 [53.1]	70.3 [33.4]	37.5 [24.3]	23.2 [19.1]	15.7	11.3	8.5
BRASS	259 [76]	156 [38.5]	61.4 [24.2]	32.8 [17.7]	20.2 [13.9]	13.7 [11.4]	9.9	7.5
CARBON STEEL	362 [190]	215 [69.4]	34.2 [43.6]	45 [31.9]	27.7 [25]	16.9	13.6	10.3
A.I.S.I. 304 A.I.S.I. 316	382 [190]	224 [96.1]	87.8 [60.4]	46.9 [44.1]	28.9	19.7	14.2	10.8
MONEL	277 [152]	196 [77.1]	77.2 [48.5]	41.4 [35.4]	25.4	17.2	12.4	9.4

**TABLE NO. 6V
SOCKET-WELD DESIGN THERMOWELLS
WELL TYPES- 3/4 260W, 1 260W, 3/4 385W, 1 385W**

WELL TYPE	MATERIAL	INSERTION LENGTH- "U"						
		2 1/2	4 1/2	7 1/2	10 1/2	13 1/2	16 1/2	19 1/2
3/4" 260W	CARBON STEEL	290 [106]	123 [71.2]	44.9 [42.7]	22.8	13.8	9.3	4.9
	A.I.S.I. 304 A.I.S.I. 316	300 [148]	128 [99.3]	46.4	23.6	14.3	9.6	5.1
1" 260W	CARBON STEEL	290 [106]	143 [84.3]	51.6 [50.6]	26.2	15.9	10.6	5.7
	A.I.S.I. 304 A.I.S.I. 316	300 [148]	146 [117]	53.5	27.2	16.5	11	5.9
3/4" 385W 1" 385W	CARBON STEEL	426 [260]	192 [144]	69.5	35.4	20.5	14.3	7.7
	A.I.S.I. 304 A.I.S.I. 316	449 [360]	199	71.9	36.6	21.2	14.8	8

**TYPICAL MAXIMUM FLUID VELOCITY FEET PER SECOND
SEE VELOCITY RATING GUIDE SHEET (PAGE TF2)**

TABLE NO. 7V

WELL TYPES- 3/4 260WH, 1 260WH, 3/4 260WL, 1 260WL

WELL TYPE	MATERIAL	INSERTION LENGTH- "U"							
		2 1/2	4 1/2	7 1/2	10 1/2	13 1/2	16 1/2	19 1/2	22 1/2
3/4" 260WH 3/4" 260WL 3/4" 260WHL	CARBON STEEL	386 [175]	180 [97.2]	65.3 [58.3]	33	20.1	13.4	9.6	7.1
	A.I.S.I 304 A.I.S.I 316	440 [243]	197 [135]	71.2	36	22	14.7	8	7.8
	MONEL	354 [195]	155 [108]	56.1	28.4	17.3	11.6	7.5	5.6
1" 260WH 1" 260WL 1" 260WHL	CARBON STEEL	448 [269]	209 [161]	75.7	38.4	23.3	15.5	11.1	8.2
	A.I.S.I 304 A.I.S.I 316	490 [403]	228 [225]	82.5	41.8	25.5	17.1	12.2	9.1

TABLE NO. 8V

SOCKET-WELD DESIGN THERMOWELLS FOR .385 DIAMETER ELEMENTS

WELL TYPES- 1 385WH, 1 385WHL

MATERIAL	INSERTION LENGTH- "U"							
	2 1/2	4 1/2	7 1/2	10 1/2	13 1/2	16 1/2	19 1/2	22 1/2
CARBON STEEL	410 [270]	249 [150]	90.3	45.6	27.8	18.5	13.2	9.8
A.I.S.I. 304 A.I.S.I. 316	483 [350]	272 [208]	97.3	49.7	30.4	20.3	14.5	10.7

TABLE NO. 9V

STRAIGHT VAN STONE THERMOWELLS FOR 1/4" & 3/8" DIA ELEMENTS

WELL TYPES- 1" 260VS, 1" 385VS, 1 1/2" 260VS, 1 1/8" 260VS

WELL TYPE	MATERIAL	INSERTION LENGTH- "U"						
		2	4	7	10	13	16	22
260VS	CARBON STEEL	404 [129]	184 [71.2]	67 [42.7]	34	20.6	13.7	7.4
	A.I.S.I 304 A.I.S.I 316	430 [179]	192 [99.3]	69.7 [59.6]	35.4	21.5	14.7	7.7
	MONEL	350 [143]	168 [79.8]	61 [47.7]	31	18	12.5	6.7
385VS	CARBON STEEL	410 [152]	248 [84.3]	91.3 [50.6]	45.7	27.6	18.5	10
	A.I.S.I 304 A.I.S.I 316	444 [211]	258 [117]	95.2 [70.3]	47.6	28.8	19.3	10.4
	MONEL	338 [168]	226 [93.3]	83.3 [56]	41.6	25.2	16.9	9.1