



* Reference photo

Material: ASTM A403 304L
Design: ASME / ANSI B16.9
Ends: Butt Welded
Schedule: SCH 10S

TENSILE REQUIREMENTS

MATERIAL	Yield Strength, min, ksi [MPa]	Tensile Strength, min, ksi [MPa]
304L	25 [170]	70 [485]

PERMITTED VARIATIONS IN WALL THICKNESS

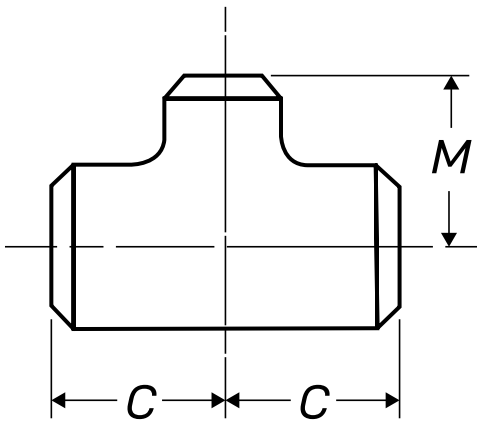
NPS Designator	Tolerance, % from Nominal	
	Over	Under
1/8 to 2 1/2 incl., all t/D ratios	20.0	12.5
3 to 18 incl., t/D up to 5 % incl.	22.5	12.5
3 to 18 incl., t/D > 5%	15.0	12.5

where:

t = Nominal Wall Thickness

D = Ordered Outside Diameter

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DIMENSIONS

Nominal Pipe Size (NPS)	Outside Diameter at Bevel, mm (in.)		Center-to-End, mm (in.)		Nominal Wall Thickness, mm (in.)		Approx. Weight, kg
	Run	Outlet	Run, C	Outlet, M	Large End	Small End	
1/2 x 1/2 x 3/8	21.3 (0.84)	17.3 (0.68)	25 (1.00)	25 (1.00)	2.11 (0.083)	2.11 (0.083)	0.09
1/2 x 1/2 x 1/4	21.3 (0.84)	13.7 (0.54)	25 (1.00)	25 (1.00)	2.11 (0.083)	1.65 (0.065)	0.08
3/4 x 3/4 x 1/2	26.7 (1.05)	21.3 (0.84)	29 (1.12)	29 (1.12)	2.11 (0.083)	2.11 (0.083)	0.11
3/4 x 3/4 x 3/8	26.7 (1.05)	17.3 (0.68)	29 (1.12)	29 (1.12)	2.11 (0.083)	2.11 (0.083)	0.11
1 x 1 x 3/4	33.4 (1.32)	26.7 (1.05)	38 (1.50)	38 (1.50)	2.77 (0.109)	2.11 (0.083)	0.25
1 x 1 x 1/2	33.4 (1.32)	21.3 (0.84)	38 (1.50)	38 (1.50)	2.77 (0.109)	2.11 (0.083)	0.25
1 1/4 x 1 1/4 x 1	42.2 (1.66)	33.4 (1.32)	48 (1.88)	48 (1.88)	2.77 (0.109)	2.11 (0.083)	0.45
1 1/4 x 1 1/4 x 3/4	42.2 (1.66)	26.7 (1.05)	48 (1.88)	48 (1.88)	2.77 (0.109)	2.11 (0.083)	0.44
1 1/4 x 1 1/4 x 1/2	42.2 (1.66)	21.3 (0.84)	48 (1.88)	48 (1.88)	2.77 (0.109)	2.11 (0.083)	0.43
1 1/2 x 1 1/2 x 1 1/4	48.3 (1.90)	42.2 (1.66)	57 (2.25)	57 (2.25)	2.77 (0.109)	2.11 (0.083)	0.61
1 1/2 x 1 1/2 x 1	48.3 (1.90)	33.4 (1.32)	57 (2.25)	57 (2.25)	2.77 (0.109)	2.11 (0.083)	0.60
1 1/2 x 1 1/2 x 3/4	48.3 (1.90)	26.7 (1.05)	57 (2.25)	57 (2.25)	2.77 (0.109)	2.11 (0.083)	0.59
1 1/2 x 1 1/2 x 1/2	48.3 (1.90)	21.3 (0.84)	57 (2.25)	57 (2.25)	2.77 (0.109)	2.11 (0.083)	0.58

* Conversion equivalents are approximate. Reference weights.

* Photos and reference data. Reference weights. We accept no liability for incorrect uses or misinterpretations of this data.



Nominal Pipe Size (NPS)	Outside Diameter at Bevel, mm (in.)		Center-to-End, mm (in.)		Nominal Wall Thickness, mm (in.)		Approx. Weight, kg
	Run	Outlet	Run, C	Outlet, M	Large End	Small End	
2 × 2 × 1 1/2	60.3 (2.38)	48.3 (1.90)	64 (2.50)	60 (2.38)	2.77 (0.109)	2.11 (0.083)	0.76
2 × 2 × 1 1/4	60.3 (2.38)	42.2 (1.66)	64 (2.50)	57 (2.25)	2.77 (0.109)	2.11 (0.083)	0.74
2 × 2 × 1	60.3 (2.38)	33.4 (1.32)	64 (2.50)	51 (2.00)	2.77 (0.109)	2.11 (0.083)	0.73
2 × 2 × 3/4	60.3 (2.38)	26.7 (1.05)	64 (2.50)	44 (1.75)	2.77 (0.109)	2.11 (0.083)	0.72
2 1/2 × 2 1/2 × 2	73.0 (2.88)	60.3 (2.38)	76 (3.00)	70 (2.75)	3.05 (0.12)	2.77 (0.109)	1.27
2 1/2 × 2 1/2 × 1 1/2	73.0 (2.88)	48.3 (1.90)	76 (3.00)	67 (2.62)	3.05 (0.12)	2.77 (0.109)	1.24
2 1/2 × 2 1/2 × 1 1/4	73.0 (2.88)	42.2 (1.66)	76 (3.00)	64 (2.50)	3.05 (0.12)	3.05 (0.12)	1.21
2 1/2 × 2 1/2 × 1	73.0 (2.88)	33.4 (1.32)	76 (3.00)	57 (2.25)	3.05 (0.12)	2.77 (0.109)	1.19
3 × 3 × 2 1/2	88.9 (3.50)	73.0 (2.88)	86 (3.38)	83 (3.25)	3.05 (0.12)	2.77 (0.109)	1.59
3 × 3 × 2	88.9 (3.50)	60.3 (2.38)	86 (3.38)	76 (3.00)	3.05 (0.12)	2.77 (0.109)	1.56
3 × 3 × 1 1/2	88.9 (3.50)	48.3 (1.90)	86 (3.38)	73 (2.88)	3.05 (0.12)	2.77 (0.109)	1.52
3 × 3 × 1 1/4	88.9 (3.50)	42.2 (1.66)	86 (3.38)	70 (2.75)	3.05 (0.12)	2.77 (0.109)	1.50
3 1/2 × 3 1/2 × 3	101.6 (4.00)	88.9 (3.50)	95 (3.75)	92 (3.62)	3.05 (0.12)	3.05 (0.12)	2.40
3 1/2 × 3 1/2 × 2 1/2	101.6 (4.00)	73.0 (2.88)	95 (3.75)	89 (3.50)	3.05 (0.12)	3.05 (0.12)	2.34
3 1/2 × 3 1/2 × 2	101.6 (4.00)	60.3 (2.38)	95 (3.75)	83 (3.25)	3.05 (0.12)	2.77 (0.109)	2.29
3 1/2 × 3 1/2 × 1 1/2	101.6 (4.00)	48.3 (1.90)	95 (3.75)	79 (3.12)	3.05 (0.12)	2.77 (0.109)	2.26
4 × 4 × 3 1/2	114.3 (4.50)	101.6 (4.00)	105 (4.12)	102 (4.00)	3.05 (0.12)	3.05 (0.12)	3.11
4 × 4 × 3	114.3 (4.50)	88.9 (3.50)	105 (4.12)	98 (3.88)	3.05 (0.12)	3.05 (0.12)	3.04
4 × 4 × 2 1/2	114.3 (4.50)	73.0 (2.88)	105 (4.12)	95 (3.75)	3.05 (0.12)	3.05 (0.12)	2.98
4 × 4 × 2	114.3 (4.50)	60.3 (2.38)	105 (4.12)	89 (3.50)	3.05 (0.12)	2.77 (0.109)	2.94
4 × 4 × 1 1/2	114.3 (4.50)	48.3 (1.90)	105 (4.12)	86 (3.38)	3.05 (0.12)	2.77 (0.109)	2.90
5 × 5 × 4	141.3 (5.56)	114.3 (4.50)	124 (4.88)	117 (4.62)	3.4 (0.134)	3.05 (0.12)	5.49
5 × 5 × 3 1/2	141.3 (5.56)	101.6 (4.00)	124 (4.88)	114 (4.50)	3.4 (0.134)	3.05 (0.12)	5.37
5 × 5 × 3	141.3 (5.56)	88.9 (3.50)	124 (4.88)	111 (4.38)	3.4 (0.134)	3.05 (0.12)	5.24
5 × 5 × 2 1/2	141.3 (5.56)	73.0 (2.88)	124 (4.88)	108 (4.25)	3.4 (0.134)	3.05 (0.12)	5.18
5 × 5 × 2	141.3 (5.56)	60.3 (2.38)	124 (4.88)	105 (4.12)	3.4 (0.134)	2.77 (0.109)	5.12
6 × 6 × 5	168.3 (6.62)	141.3 (5.56)	143 (5.62)	137 (5.38)	3.4 (0.134)	3.05 (0.12)	7.27
6 × 6 × 4	168.3 (6.62)	114.3 (4.50)	143 (5.62)	130 (5.12)	3.4 (0.134)	3.05 (0.12)	7.10
6 × 6 × 3 1/2	168.3 (6.62)	101.6 (4.00)	143 (5.62)	127 (5.00)	3.4 (0.134)	3.05 (0.12)	6.94
6 × 6 × 3	168.3 (6.62)	88.9 (3.50)	143 (5.62)	124 (4.88)	3.4 (0.134)	3.05 (0.12)	6.86
6 × 6 × 2 1/2	168.3 (6.62)	73.0 (2.88)	143 (5.62)	121 (4.75)	3.4 (0.134)	3.05 (0.12)	6.78
8 × 8 × 6	219.1 (8.62)	168.3 (6.62)	178 (7.00)	168 (6.62)	3.76 (0.148)	3.4 (0.134)	14.08
8 × 8 × 5	219.1 (8.62)	141.3 (5.56)	178 (7.00)	162 (6.38)	3.76 (0.148)	3.4 (0.134)	13.77
8 × 8 × 4	219.1 (8.62)	114.3 (4.50)	178 (7.00)	156 (6.12)	3.76 (0.148)	3.05 (0.12)	13.46
8 × 8 × 3 1/2	219.1 (8.62)	101.6 (4.00)	178 (7.00)	152 (6.00)	3.76 (0.148)	3.05 (0.12)	13.30
10 × 10 × 8	273.0 (10.75)	219.1 (8.62)	216 (8.50)	203 (8.00)	4.19 (0.165)	3.76 (0.148)	24.08
10 × 10 × 6	273.0 (10.75)	168.3 (6.62)	216 (8.50)	194 (7.62)	4.19 (0.165)	3.4 (0.134)	23.55
10 × 10 × 5	273.0 (10.75)	141.3 (5.56)	216 (8.50)	191 (7.50)	4.19 (0.165)	3.4 (0.134)	23.01
10 × 10 × 4	273.0 (10.75)	114.3 (4.50)	216 (8.50)	184 (7.25)	4.19 (0.165)	3.05 (0.12)	22.74
12 × 12 × 10	323.8 (12.75)	273.0 (10.75)	254 (10.00)	241 (9.50)	4.57 (0.18)	4.19 (0.165)	35.51
12 × 12 × 8	323.8 (12.75)	219.1 (8.62)	254 (10.00)	229 (9.00)	4.57 (0.18)	3.76 (0.148)	34.72
12 × 12 × 6	323.8 (12.75)	168.3 (6.62)	254 (10.00)	219 (8.62)	4.57 (0.18)	3.4 (0.134)	33.93
12 × 12 × 5	323.8 (12.75)	141.3 (5.56)	254 (10.00)	216 (8.50)	4.57 (0.18)	3.4 (0.134)	33.54
14 × 14 × 12	355.6 (14.00)	323.8 (12.75)	279 (11.00)	270 (10.62)	4.78 (0.188)	4.57 (0.18)	43.67
14 × 14 × 10	355.6 (14.00)	273.0 (10.75)	279 (11.00)	257 (10.12)	4.78 (0.188)	4.19 (0.165)	42.70
14 × 14 × 8	355.6 (14.00)	219.1 (8.62)	279 (11.00)	248 (9.75)	4.78 (0.188)	3.76 (0.148)	41.73
14 × 14 × 6	355.6 (14.00)	168.3 (6.62)	279 (11.00)	238 (9.38)	4.78 (0.188)	3.4 (0.134)	41.25
16 × 16 × 14	406.4 (16.00)	355.6 (14.00)	305 (12.00)	305 (12.00)	4.78 (0.188)	4.78 (0.188)	53.06
16 × 16 × 12	406.4 (16.00)	323.8 (12.75)	305 (12.00)	295 (11.62)	4.78 (0.188)	4.57 (0.18)	51.70
16 × 16 × 10	406.4 (16.00)	273.0 (10.75)	305 (12.00)	283 (11.12)	4.78 (0.188)	4.19 (0.165)	50.79
16 × 16 × 8	406.4 (16.00)	219.1 (8.62)	305 (12.00)	273 (10.75)	4.78 (0.188)	3.76 (0.148)	49.89
16 × 16 × 6	406.4 (16.00)	168.3 (6.62)	305 (12.00)	264 (10.38)	4.78 (0.188)	3.4 (0.134)	49.43

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