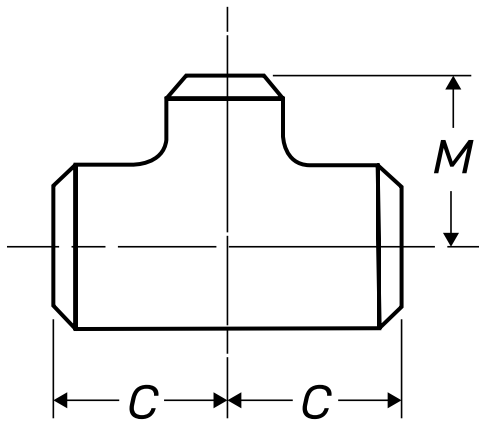




* Reference photo



Material: ASTM A403 304L
Design: ASME / ANSI B16.9
Ends: Butt Welded
Schedule: SCH 40S

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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 para Perú y para su exportación.

DIMENSIONS

Nominal Pipe Size (NPS)	Nominal Wall Thickness, mm (in.)		Outside Diameter at Bevel, mm (in.)		Center-to-End, mm (in.)		Approx. Weight, kg
	Large End	Small End	Run	Outlet	Run, C	Outlet, M	
1/2 × 1/2 × 3/8	2.77 (0.109)	2.31 (0.091)	21.3 (0.84)	17.3 (0.68)	25 (1.00)	25 (1.00)	0.10
1/2 × 1/2 × 1/4	2.77 (0.109)	2.24 (0.088)	21.3 (0.84)	13.7 (0.54)	25 (1.00)	25 (1.00)	0.09
3/4 × 3/4 × 1/2	2.87 (0.113)	2.77 (0.109)	26.7 (1.05)	21.3 (0.84)	29 (1.12)	29 (1.12)	0.15
3/4 × 3/4 × 3/8	2.87 (0.113)	2.31 (0.091)	26.7 (1.05)	17.3 (0.68)	29 (1.12)	29 (1.12)	0.15
1 × 1 × 3/4	3.38 (0.133)	2.87 (0.113)	33.4 (1.32)	26.7 (1.05)	38 (1.50)	38 (1.50)	0.27
1 × 1 × 1/2	3.38 (0.133)	2.77 (0.109)	33.4 (1.32)	21.3 (0.84)	38 (1.50)	38 (1.50)	0.26
1 1/4 × 1 1/4 × 1	3.56 (0.14)	3.38 (0.133)	42.2 (1.66)	33.4 (1.32)	48 (1.88)	48 (1.88)	0.53
1 1/4 × 1 1/4 × 3/4	3.56 (0.14)	2.87 (0.113)	42.2 (1.66)	26.7 (1.05)	48 (1.88)	48 (1.88)	0.52
1 1/4 × 1 1/4 × 1/2	3.56 (0.14)	2.77 (0.109)	42.2 (1.66)	21.3 (0.84)	48 (1.88)	48 (1.88)	0.51
1 1/2 × 1 1/2 × 1 1/4	3.68 (0.145)	3.56 (0.14)	48.3 (1.90)	42.2 (1.66)	57 (2.25)	57 (2.25)	0.78
1 1/2 × 1 1/2 × 1	3.68 (0.145)	3.38 (0.133)	48.3 (1.90)	33.4 (1.32)	57 (2.25)	57 (2.25)	0.76
1 1/2 × 1 1/2 × 3/4	3.68 (0.145)	2.87 (0.113)	48.3 (1.90)	26.7 (1.05)	57 (2.25)	57 (2.25)	0.74
1 1/2 × 1 1/2 × 1/2	3.68 (0.145)	2.77 (0.109)	48.3 (1.90)	21.3 (0.84)	57 (2.25)	57 (2.25)	0.73

* 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)	Nominal Wall Thickness, mm (in.)		Outside Diameter at Bevel, mm (in.)		Center-to-End, mm (in.)		Approx. Weight, kg
	Large End	Small End	Run	Outlet	Run, C	Outlet, M	
2 x 2 x 1 1/2	3.91 (0.154)	3.68 (0.145)	60.3 (2.38)	48.3 (1.90)	64 (2.50)	60 (2.38)	1.15
2 x 2 x 1 1/4	3.91 (0.154)	3.56 (0.14)	60.3 (2.38)	42.2 (1.66)	64 (2.50)	57 (2.25)	1.13
2 x 2 x 1	3.91 (0.154)	3.38 (0.133)	60.3 (2.38)	33.4 (1.32)	64 (2.50)	51 (2.00)	1.10
2 x 2 x 3/4	3.91 (0.154)	2.87 (0.113)	60.3 (2.38)	26.7 (1.05)	64 (2.50)	44 (1.75)	1.09
2 1/2 x 2 1/2 x 2	5.16 (0.203)	3.91 (0.154)	73.0 (2.88)	60.3 (2.38)	76 (3.00)	70 (2.75)	1.98
2 1/2 x 2 1/2 x 1 1/2	5.16 (0.203)	3.68 (0.145)	73.0 (2.88)	48.3 (1.90)	76 (3.00)	67 (2.62)	1.94
2 1/2 x 2 1/2 x 1 1/4	5.16 (0.203)	3.56 (0.14)	73.0 (2.88)	42.2 (1.66)	76 (3.00)	64 (2.50)	1.89
2 1/2 x 2 1/2 x 1	5.16 (0.203)	3.38 (0.133)	73.0 (2.88)	33.4 (1.32)	76 (3.00)	57 (2.25)	1.87
3 x 3 x 2 1/2	5.49 (0.216)	5.16 (0.203)	88.9 (3.50)	73.0 (2.88)	86 (3.38)	83 (3.25)	2.98
3 x 3 x 2	5.49 (0.216)	3.91 (0.154)	88.9 (3.50)	60.3 (2.38)	86 (3.38)	76 (3.00)	2.91
3 x 3 x 1 1/2	5.49 (0.216)	3.68 (0.145)	88.9 (3.50)	48.3 (1.90)	86 (3.38)	73 (2.88)	2.85
3 x 3 x 1 1/4	5.49 (0.216)	3.56 (0.14)	88.9 (3.50)	42.2 (1.66)	86 (3.38)	70 (2.75)	2.81
3 1/2 x 3 1/2 x 3	5.74 (0.226)	5.49 (0.216)	101.6 (4.00)	88.9 (3.50)	95 (3.75)	92 (3.62)	4.13
3 1/2 x 3 1/2 x 2 1/2	5.74 (0.226)	5.16 (0.203)	101.6 (4.00)	73.0 (2.88)	95 (3.75)	89 (3.50)	4.07
3 1/2 x 3 1/2 x 2	5.74 (0.226)	3.91 (0.154)	101.6 (4.00)	60.3 (2.38)	95 (3.75)	83 (3.25)	3.51
3 1/2 x 3 1/2 x 1 1/2	5.74 (0.226)	3.68 (0.145)	101.6 (4.00)	48.3 (1.90)	95 (3.75)	79 (3.12)	3.47
4 x 4 x 3 1/2	6.02 (0.237)	5.74 (0.226)	114.3 (4.50)	101.6 (4.00)	105 (4.12)	102 (4.00)	4.72
4 x 4 x 3	6.02 (0.237)	5.49 (0.216)	114.3 (4.50)	88.9 (3.50)	105 (4.12)	98 (3.88)	4.64
4 x 4 x 2 1/2	6.02 (0.237)	5.16 (0.203)	114.3 (4.50)	73.0 (2.88)	105 (4.12)	95 (3.75)	4.54
4 x 4 x 2	6.02 (0.237)	3.91 (0.154)	114.3 (4.50)	60.3 (2.38)	105 (4.12)	89 (3.50)	4.48
4 x 4 x 1 1/2	6.02 (0.237)	3.68 (0.145)	114.3 (4.50)	48.3 (1.90)	105 (4.12)	86 (3.38)	4.43
5 x 5 x 4	6.55 (0.258)	6.02 (0.237)	141.3 (5.56)	114.3 (4.50)	124 (4.88)	117 (4.62)	8.47
5 x 5 x 3 1/2	6.55 (0.258)	5.74 (0.226)	141.3 (5.56)	101.6 (4.00)	124 (4.88)	114 (4.50)	8.28
5 x 5 x 3	6.55 (0.258)	5.49 (0.216)	141.3 (5.56)	88.9 (3.50)	124 (4.88)	111 (4.38)	8.09
5 x 5 x 2 1/2	6.55 (0.258)	5.16 (0.203)	141.3 (5.56)	73.0 (2.88)	124 (4.88)	108 (4.25)	8.00
5 x 5 x 2	6.55 (0.258)	3.91 (0.154)	141.3 (5.56)	60.3 (2.38)	124 (4.88)	105 (4.12)	7.90
6 x 6 x 5	7.11 (0.28)	6.55 (0.258)	168.3 (6.62)	141.3 (5.56)	143 (5.62)	137 (5.38)	9.90
6 x 6 x 4	7.11 (0.28)	6.02 (0.237)	168.3 (6.62)	114.3 (4.50)	143 (5.62)	130 (5.12)	9.68
6 x 6 x 3 1/2	7.11 (0.28)	5.74 (0.226)	168.3 (6.62)	101.6 (4.00)	143 (5.62)	127 (5.00)	9.46
6 x 6 x 3	7.11 (0.28)	5.49 (0.216)	168.3 (6.62)	88.9 (3.50)	143 (5.62)	124 (4.88)	11.94
6 x 6 x 2 1/2	7.11 (0.28)	5.16 (0.203)	168.3 (6.62)	73.0 (2.88)	143 (5.62)	121 (4.75)	9.24
8 x 8 x 6	8.18 (0.322)	7.11 (0.28)	219.1 (8.62)	168.3 (6.62)	178 (7.00)	168 (6.62)	18.82
8 x 8 x 5	8.18 (0.322)	6.55 (0.258)	219.1 (8.62)	141.3 (5.56)	178 (7.00)	162 (6.38)	18.39
8 x 8 x 4	8.18 (0.322)	6.02 (0.237)	219.1 (8.62)	114.3 (4.50)	178 (7.00)	156 (6.12)	17.98
8 x 8 x 3 1/2	8.18 (0.322)	5.74 (0.226)	219.1 (8.62)	101.6 (4.00)	178 (7.00)	152 (6.00)	17.77
10 x 10 x 8	9.27 (0.365)	8.18 (0.322)	273.0 (10.75)	219.1 (8.62)	216 (8.50)	203 (8.00)	31.84
10 x 10 x 6	9.27 (0.365)	7.11 (0.28)	273.0 (10.75)	168.3 (6.62)	216 (8.50)	194 (7.62)	31.13
10 x 10 x 5	9.27 (0.365)	6.55 (0.258)	273.0 (10.75)	141.3 (5.56)	216 (8.50)	191 (7.50)	30.42
10 x 10 x 4	9.27 (0.365)	6.02 (0.237)	273.0 (10.75)	114.3 (4.50)	216 (8.50)	184 (7.25)	30.07
12 x 12 x 10	9.53 (0.375)	9.27 (0.365)	323.8 (12.75)	273.0 (10.75)	254 (10.00)	241 (9.50)	55.78
12 x 12 x 8	9.53 (0.375)	8.18 (0.322)	323.8 (12.75)	219.1 (8.62)	254 (10.00)	229 (9.00)	54.42
12 x 12 x 6	9.53 (0.375)	7.11 (0.28)	323.8 (12.75)	168.3 (6.62)	254 (10.00)	219 (8.62)	53.51
12 x 12 x 5	9.53 (0.375)	6.55 (0.258)	323.8 (12.75)	141.3 (5.56)	254 (10.00)	216 (8.50)	52.61
14 x 14 x 12	9.53 (0.375)	9.53 (0.375)	355.6 (14.00)	323.8 (12.75)	279 (11.00)	270 (10.62)	71.20
14 x 14 x 10	9.53 (0.375)	9.27 (0.365)	355.6 (14.00)	273.0 (10.75)	279 (11.00)	257 (10.12)	69.84
14 x 14 x 8	9.53 (0.375)	8.18 (0.322)	355.6 (14.00)	219.1 (8.62)	279 (11.00)	248 (9.75)	68.03
14 x 14 x 6	9.53 (0.375)	7.11 (0.28)	355.6 (14.00)	168.3 (6.62)	279 (11.00)	238 (9.38)	67.12
16 x 16 x 14	9.53 (0.375)	9.53 (0.375)	406.4 (16.00)	355.6 (14.00)	305 (12.00)	305 (12.00)	89.80
16 x 16 x 12	9.53 (0.375)	9.53 (0.375)	406.4 (16.00)	323.8 (12.75)	305 (12.00)	295 (11.62)	87.53
16 x 16 x 10	9.53 (0.375)	9.27 (0.365)	406.4 (16.00)	273.0 (10.75)	305 (12.00)	283 (11.12)	85.71
16 x 16 x 8	9.53 (0.375)	8.18 (0.322)	406.4 (16.00)	219.1 (8.62)	305 (12.00)	273 (10.75)	84.81
16 x 16 x 6	9.53 (0.375)	7.11 (0.28)	406.4 (16.00)	168.3 (6.62)	305 (12.00)	264 (10.38)	83.45

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