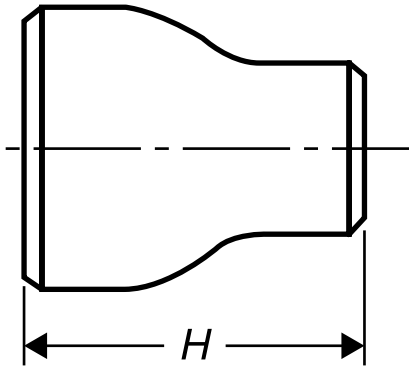




* Reference photo



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]
316L	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.)		End-to-End, H, mm (in.)	Nominal Wall Thickness, mm (in.)		Approx. Weight, kg
	Large End	Small End		Large End	Small End	
3/4 × 1/2	26.7 (1.05)	21.3 (0.84)	38 (1.50)	2.87 (0.113)	2.77 (0.109)	0.105
3/4 × 3/8	26.7 (1.05)	17.3 (0.68)	38 (1.50)	2.87 (0.113)	2.31 (0.091)	0.06
1 × 3/4	33.4 (1.32)	26.7 (1.05)	51 (2.00)	3.38 (0.133)	2.87 (0.113)	0.116
1 × 1/2	33.4 (1.32)	21.3 (0.84)	51 (2.00)	3.38 (0.133)	2.77 (0.109)	0.105
1 1/4 × 1	42.2 (1.66)	33.4 (1.32)	51 (2.00)	3.56 (0.14)	3.38 (0.133)	0.157
1 1/4 × 3/4	42.2 (1.66)	26.7 (1.05)	51 (2.00)	3.56 (0.14)	2.87 (0.113)	0.15
1 1/4 × 1/2	42.2 (1.66)	21.3 (0.84)	51 (2.00)	3.56 (0.14)	2.77 (0.109)	0.15
1 1/2 × 1 1/4	48.3 (1.90)	42.2 (1.66)	64 (2.50)	3.68 (0.145)	3.56 (0.14)	0.263
1 1/2 × 1	48.3 (1.90)	33.4 (1.32)	64 (2.50)	3.68 (0.145)	3.38 (0.133)	0.219
1 1/2 × 3/4	48.3 (1.90)	26.7 (1.05)	64 (2.50)	3.68 (0.145)	2.87 (0.113)	0.201
1 1/2 × 1/2	48.3 (1.90)	21.3 (0.84)	64 (2.50)	3.68 (0.145)	2.77 (0.109)	0.204
2 × 1 1/2	60.3 (2.38)	48.3 (1.90)	76 (3.00)	3.91 (0.154)	3.68 (0.145)	0.372
2 × 1 1/4	60.3 (2.38)	42.2 (1.66)	76 (3.00)	3.91 (0.154)	3.56 (0.14)	0.352

* 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.)		End-to-End, H, mm (in.)	Nominal Wall Thickness, mm (in.)		Approx. Weight, kg
	Large End	Small End		Large End	Small End	
2 × 1	60.3 (2.38)	33.4 (1.32)	76 (3.00)	3.91 (0.154)	3.38 (0.133)	0.322
2 × 3/4	60.3 (2.38)	26.7 (1.05)	76 (3.00)	3.91 (0.154)	2.87 (0.113)	0.298
2 1/2 × 2	73.0 (2.88)	60.3 (2.38)	89 (3.50)	5.16 (0.203)	3.91 (0.154)	0.724
2 1/2 × 1 1/2	73.0 (2.88)	48.3 (1.90)	89 (3.50)	5.16 (0.203)	3.68 (0.145)	0.661
2 1/2 × 1 1/4	73.0 (2.88)	42.2 (1.66)	89 (3.50)	5.16 (0.203)	3.56 (0.14)	0.67
2 1/2 × 1	73.0 (2.88)	33.4 (1.32)	89 (3.50)	5.16 (0.203)	3.38 (0.133)	0.793
3 × 2 1/2	88.9 (3.50)	73.0 (2.88)	89 (3.50)	5.49 (0.216)	5.16 (0.203)	1.08
3 × 2	88.9 (3.50)	60.3 (2.38)	89 (3.50)	5.49 (0.216)	3.91 (0.154)	0.846
3 × 1 1/2	88.9 (3.50)	48.3 (1.90)	89 (3.50)	5.49 (0.216)	3.68 (0.145)	0.783
3 × 1 1/4	88.9 (3.50)	42.2 (1.66)	89 (3.50)	5.49 (0.216)	3.56 (0.14)	0.775
3 1/2 × 3	101.6 (4.00)	88.9 (3.50)	102 (4.00)	5.74 (0.226)	5.49 (0.216)	-
3 1/2 × 2 1/2	101.6 (4.00)	73.0 (2.88)	102 (4.00)	5.74 (0.226)	5.16 (0.203)	-
3 1/2 × 2	101.6 (4.00)	60.3 (2.38)	102 (4.00)	5.74 (0.226)	3.91 (0.154)	-
3 1/2 × 1 1/2	101.6 (4.00)	48.3 (1.90)	102 (4.00)	5.74 (0.226)	3.68 (0.145)	-
3 1/2 × 1 1/4	101.6 (4.00)	42.2 (1.66)	102 (4.00)	5.74 (0.226)	3.56 (0.14)	-
4 × 3 1/2	114.3 (4.50)	101.6 (4.00)	102 (4.00)	6.02 (0.237)	5.74 (0.226)	-
4 × 3	114.3 (4.50)	88.9 (3.50)	102 (4.00)	6.02 (0.237)	5.49 (0.216)	1.45
4 × 2 1/2	114.3 (4.50)	73.0 (2.88)	102 (4.00)	6.02 (0.237)	5.16 (0.203)	1.37
4 × 2	114.3 (4.50)	60.3 (2.38)	102 (4.00)	6.02 (0.237)	3.91 (0.154)	1.27
4 × 1 1/2	114.3 (4.50)	48.3 (1.90)	102 (4.00)	6.02 (0.237)	3.68 (0.145)	1.241
5 × 4	141.3 (5.56)	114.3 (4.50)	127 (5.00)	6.55 (0.258)	6.02 (0.237)	2.5
5 × 3 1/2	141.3 (5.56)	101.6 (4.00)	127 (5.00)	6.55 (0.258)	5.74 (0.226)	-
5 × 3	141.3 (5.56)	88.9 (3.50)	127 (5.00)	6.55 (0.258)	5.49 (0.216)	2.27
5 × 2 1/2	141.3 (5.56)	73.0 (2.88)	127 (5.00)	6.55 (0.258)	5.16 (0.203)	2.37
5 × 2	141.3 (5.56)	60.3 (2.38)	127 (5.00)	6.55 (0.258)	3.91 (0.154)	2.26
6 × 5	168.3 (6.62)	141.3 (5.56)	140 (5.50)	7.11 (0.28)	6.55 (0.258)	3.57
6 × 4	168.3 (6.62)	114.3 (4.50)	140 (5.50)	7.11 (0.28)	6.02 (0.237)	3.3
6 × 3 1/2	168.3 (6.62)	101.6 (4.00)	140 (5.50)	7.11 (0.28)	5.74 (0.226)	-
6 × 3	168.3 (6.62)	88.9 (3.50)	140 (5.50)	7.11 (0.28)	5.49 (0.216)	3.04
6 × 2 1/2	168.3 (6.62)	73.0 (2.88)	140 (5.50)	7.11 (0.28)	5.16 (0.203)	2.74
8 × 6	219.1 (8.62)	168.3 (6.62)	152 (6.00)	8.18 (0.322)	7.11 (0.28)	5.71
8 × 5	219.1 (8.62)	141.3 (5.56)	152 (6.00)	8.18 (0.322)	6.55 (0.258)	5.4
8 × 4	219.1 (8.62)	114.3 (4.50)	152 (6.00)	8.18 (0.322)	6.02 (0.237)	5.1
8 × 3 1/2	219.1 (8.62)	101.6 (4.00)	152 (6.00)	8.18 (0.322)	5.74 (0.226)	-
10 × 8	273.0 (10.75)	219.1 (8.62)	178 (7.00)	9.27 (0.365)	8.18 (0.322)	9.58
10 × 6	273.0 (10.75)	168.3 (6.62)	178 (7.00)	9.27 (0.365)	7.11 (0.28)	8.78
10 × 5	273.0 (10.75)	141.3 (5.56)	178 (7.00)	9.27 (0.365)	6.55 (0.258)	-
10 × 4	273.0 (10.75)	114.3 (4.50)	178 (7.00)	9.27 (0.365)	6.02 (0.237)	-
12 × 10	323.8 (12.75)	273.0 (10.75)	203 (8.00)	9.53 (0.375)	9.27 (0.365)	16.78
12 × 8	323.8 (12.75)	219.1 (8.62)	203 (8.00)	9.53 (0.375)	8.18 (0.322)	13.7
12 × 6	323.8 (12.75)	168.3 (6.62)	203 (8.00)	9.53 (0.375)	7.11 (0.28)	-
12 × 5	323.8 (12.75)	141.3 (5.56)	203 (8.00)	9.53 (0.375)	6.55 (0.258)	-
14 × 12	355.6 (14.00)	323.8 (12.75)	330 (13.00)	9.53 (0.375)	9.53 (0.375)	-
14 × 10	355.6 (14.00)	273.0 (10.75)	330 (13.00)	9.53 (0.375)	9.27 (0.365)	-
14 × 8	355.6 (14.00)	219.1 (8.62)	330 (13.00)	9.53 (0.375)	8.18 (0.322)	-
14 × 6	355.6 (14.00)	168.3 (6.62)	330 (13.00)	9.53 (0.375)	7.11 (0.28)	-
16 × 14	406.4 (16.00)	355.6 (14.00)	356 (14.00)	9.53 (0.375)	9.53 (0.375)	-
16 × 12	406.4 (16.00)	323.8 (12.75)	356 (14.00)	9.53 (0.375)	9.53 (0.375)	-
16 × 10	406.4 (16.00)	273.0 (10.75)	356 (14.00)	9.53 (0.375)	9.27 (0.365)	-
16 × 8	406.4 (16.00)	219.1 (8.62)	356 (14.00)	9.53 (0.375)	8.18 (0.322)	-
18 × 16	457 (18.00)	406.4 (16.00)	381 (15.00)	9.53 (0.375)	9.53 (0.375)	-
18 × 14	457 (18.00)	355.6 (14.00)	381 (15.00)	9.53 (0.375)	9.53 (0.375)	-

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