



* Reference photo

Material: ASTM A403 316L
Design: ASME / ANSI B16.9
Ends: Butt Welded
Schedule: SCH 10S

TENSILE REQUIREMENTS

MATERIAL	Yield Strength, min, ksi [MPa]	Tensile Strength, min, ksi [MPa]
316L	25 [170]	70 [485]

PERMITTED VARIATIONS IN WALL THICKNESS

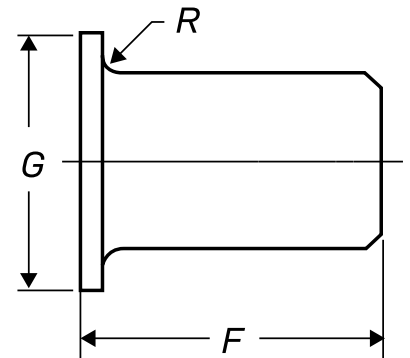
NPS Designator	Tolerance, % from Nominal	
	Over	Under
1/8 to 2 1/2 incl., all t/D ratios	20.0	12.5
3 to 18 incl., t/D up to 5 % incl.	22.5	12.5
3 to 18 incl., t/D > 5%	15.0	12.5

DIMENSIONS

Nominal Pipe Size (NPS)	Outside Diameter of Barrel, mm (in.)		Short Pattern Length, F, mm (in.)	Radius of Fillet, R, mm (in.)	Diameter of Lap, G, mm (in.)	Nominal Wall Thickness, mm (in.)	Approx. Weight, kg
	Max.	Min					
1/2	22.8 (0.896)	20.5 (0.809)	51 (2.00)	3 (0.12)	35 (1.38)	2.11 (0.083)	0.08
3/4	28.1 (1.106)	25.9 (1.019)	51 (2.00)	3 (0.12)	43 (1.69)	2.11 (0.083)	0.09
1	35.0 (1.376)	32.6 (1.284)	51 (2.00)	3 (0.12)	51 (2.00)	2.77 (0.109)	0.174
1 1/4	43.6 (1.716)	41.4 (1.629)	51 (2.00)	5 (0.19)	64 (2.50)	2.77 (0.109)	0.2
1 1/2	49.9 (1.965)	47.5 (1.869)	51 (2.00)	6 (0.25)	73 (2.88)	2.77 (0.109)	0.25
2	62.4 (2.456)	59.5 (2.344)	64 (2.50)	8 (0.31)	92 (3.62)	2.77 (0.109)	0.38
2 1/2	75.3 (2.966)	72.2 (2.844)	64 (2.50)	8 (0.31)	105 (4.12)	3.05 (0.12)	0.47
3	91.3 (3.596)	88.1 (3.469)	64 (2.50)	10 (0.38)	127 (5.00)	3.05 (0.12)	0.72
3 1/2	104.0 (4.096)	100.8 (3.969)	76 (3.00)	10 (0.38)	140 (5.50)	3.05 (0.12)	-
4	116.7 (4.593)	113.5 (4.469)	76 (3.00)	11 (0.44)	157 (6.19)	3.05 (0.12)	1.1
5	144.3 (5.683)	140.5 (5.532)	76 (3.00)	11 (0.44)	186 (7.31)	3.4 (0.134)	1.6
6	171.3 (6.743)	167.5 (6.594)	89 (3.50)	13 (0.50)	216 (8.50)	3.4 (0.134)	2.2
8	222.1 (8.743)	218.3 (8.594)	102 (4.00)	13 (0.50)	270 (10.62)	3.76 (0.148)	3.5
10	277.2 (10.913)	272.3 (10.719)	127 (5.00)	13 (0.50)	324 (12.75)	4.19 (0.165)	5.5
12	328.0 (12.913)	323.1 (12.719)	152 (6.00)	13 (0.50)	381 (15.00)	4.57 (0.18)	8.1
14	359.9 (14.170)	354.8 (13.969)	152 (6.00)	13 (0.50)	413 (16.25)	4.78 (0.188)	-
16	411.0 (16.180)	405.6 (15.969)	152 (6.00)	13 (0.50)	470 (18.50)	4.78 (0.188)	-

where:

t = Nominal Wall Thickness
D = Ordered Outside Diameter



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* Conversion equivalents are approximate. Reference weights.

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

