



ALUMINUM PIPE SPECIFICATIONS

NPS Pipe Size Inches	Tolerance, Inches	
	Allowable deviation of mean ¹ diameter from nominal diameter.  Difference between 1/2 (AA + BB) and nominal diameter	Allowable deviation of diameter at any point from nominal diameter.  Difference between AA and nominal diameter
	Schedule 5 and 10	Schedule 20 and greater
Under 2	+.015 – .031	+.015 – .031
2-4	+.031 – .031	+1% – 1%
5-7	+.062 – .031	+1% – 1%
8-12	+.093 – .031	+1% – 1%

WALL THICKNESS — PIPE

Schedule Number	Tolerance
	Allowable deviation of wall thickness at any point from nominal wall thickness
5 and 10	$\pm 12\text{-}1/2\%$, ± 0.12 in. min.
20 and greater	$-12\text{-}1/2\%^2$

WEIGHT — PIPE

Schedule Number	Tolerance
	Allowable deviation from theoretical weight
5 and 10	For schedule 5 and 10, only diameter, wall thickness, and length tolerances apply.
20 and greater	+8%

¹ Mean diameter is the average of any two diameter measurements taken at right angles to each other at any point along the length.

² Maximum wall thickness is controlled by weight tolerance


³ For schedule 5 and 10, only diameter, wall thickness, and length tolerances apply.

⁴ Minimum weight is controlled by tolerances for outside diameter and wall thickness.

LENGTH — PIPE

Specified length Ft	Tolerance, Inches plus
	Allowable deviation from theoretical length
Up thru 20	1/4
Over 20 thru 40	1/2

STRAIGHTNESS — PIPE

Pipe size Inches	Tolerance ⁵ , Inches
	Allowable deviation from straight
	
In total length or in any measured segment of one ft. or more of total length	In total length or in any measured segment of one ft. or more of total length
Under 6	.010 x measured length, ft.