

Tube Specifications

Standards

- ASTM A-269/ A270-S2
- ASME / BPE

Surface Finish

Surface finish specifications are the same for fittings & tubes.



tubing Dimensional Tolerances: Tubing specification, ASTM A-269/A270-S2

Tubing Diameter		Wall Thickness		OD Tolerance Length (ASTM Spee.)		Length (ASTM Spee.)		Wall Thickness Tolerance	Ordering Code
in.	mm.	in.	mm.	in.	mm.	in.	mm.	in.	
1/4"	6.35	0.035	0.89	+/- 0.005	+/- 0.127	0.125	3.175	+/- 10%	007000-010-P6*
3/8"	9.53	0.035	0.89	+/- 0.005	+/- 0.128	0.125	3.175	+/- 10%	010000-010-P6*
1/2"	12.70	0.065	1.65	+/- 0.005	+/- 0.129	0.125	3.175	+/- 10%	015000-010-P6*
3/4"	19.05	0.065	1.65	+/- 0.005	+/- 0.130	0.125	3.175	+/- 10%	020000-010-P6*
1.0"	25.40	0.065	1.65	+/- 0.005	+/- 0.131	0.125	3.175	+/- 10%	025000-010-P6*
1 1/2"	38.10	0.065	1.65	+/- 0.008	+/- 0.203	0.125	3.175	+/- 10%	038000-010-P6*
2.0"	50.80	0.065	1.65	+/- 0.008	+/- 0.204	0.125	3.175	+/- 10%	051000-010-P6*
2 1/2"	63.50	0.065	1.65	+/-0.010	+/- 0.254	0.125	3.175	+/- 10%	063000-010-P6*
3.0"	76.20	0.065	1.65	+/-0.015	+/- 0.381	0.125	3.175	+/- 10%	076000-010-P6*
4.0"	101.60	0.083	2.11	+/-0.010	+/- 0.381	0.188	4.763	+/- 10%	100000-010-P6*
6.0"	152.40	0.109	2.77	+/-0.030	+/- 0.762	0.188	4.763	+/- 10%	150000-010-P6*

Table 1

Inside Surface		Outside Surface	
No finish requirement		No finish requirement	0
SF1 (MP* 20μ-in 0.51 μm)		Mechanically polished to 32RA μ-in	4
SF4 (MP** 15μ-in 0.38 μm)		Mechanically polished to 32RA μ-in	M
MPE** 10μ-in 0.25μm		Mechanically polished to 32RA μ-in	R

*MP: Mechanically Polished

**MPE: Mechanically Polished & Electropolished