

Tolerance & Permissible Variations for Pipe&Tube

ASTM213	D < 25.4	+0.10/-0.10	D ≤ 38.1	+20/0	D < 50.8	+3.0/0
	≥ 25.4 ≤ 38.1	+0.15/-0.15				
	> 38.1 ≤ 50.8	+0.20/-0.20	D ≥ 38.1	+22/0	D ≥ 50.8	+5.0/0
	> 50.8 ≤ 63.5	+0.25/-0.25				
	> 63.5 ≤ 76.2	+0.30/-0.30				
	> 76.2 ≤ 101.6	+0.38/-0.38				
	> 101.6 ≤ 190.5	+0.38/-0.64				
	> 190.5 ≤ 228.6	+0.38/-1.14				
ASTM A269	D ≤ 12.7	+0.13/-0.13	D ≤ 12.7	+15/-15	D ≤ 38.1	+3.2/0
	> 12.7 ≤ 38.1		> 12.7 ≤ 203.2	+10/-10		
	> 38.1 ≤ 88.9	+0.25/-0.25				
	> 88.9 ≤ 139.7	+0.38/-0.38				
	> 139.7 ≤ 203.2	+0.76/-0.76				
ASTM A312	10.29 ≤ 48.26	+0.40/-0.80		+12.5/-12.5		+6.0/0
	> 48.26 ≤ 114.30	+0.80/-0.80				
	> 114.30 ≤ 219.08	+1.60 /-0.80				
	> 219.08 ≤ 457.20	+2.40/-0.80				
ASTM A789	D ≤ 12.7	+0.13/-0.13	D ≤ 12.7	+15/-15	≤ 38.1	+3.0/0
	> 12.7 ≤ 38.1		> 12.7 ≤ 203.2	+10/-10	D > 38.1	+5.0/0
	> 38.1 ≤ 88.9	+0.25/-0.25				
	> 88.9 ≤ 139.7	+0.38/-0.38				
	> 139.7 ≤ 203.2	+0.76/-0.76				
ASTM A790	10.29 ≤ 48.26	+0.40/-0.80		+12.5/-12.5		+6.0/0
	> 48.26 ≤ 114.3	+0.80/-0.80				
	> 114.3 ≤ 219.08	+1.60/-0.80				
	> 219.08 ≤ 457.20	+2.40/-0.80				
ASTM SB165 ASTM SB167 ASTM SB423 ASTM SB444 ASTM SB622 ASTM SB677 (Cold Finished)	> 10 ≤ 16	+0.13/-0.13		±15%	< 50.8	+3.2/0
	> 16 ≤ 38	+0.19/-0.19		±10%		
	> 38 ≤ 76	+0.25/-0.25			≥ 50.8	+4.8/0
	> 76 ≤ 114	+0.38/-0.38				
	> 114 ≤ 152	+0.51/-0.51				
	> 152 ≤ 168	+0.64/-0.64				
	> 168 ≤ 219	+0.79/-0.79				
ASTM SB407 (Cold Finished)	> 12.7 ≤ 15.8	+0.127/-0.127		±15%		+3.2/0
	> 15.8 ≤ 38.1	+0.19/-0.19		±10%		
	> 38.1 ≤ 88.9	+0.254/-0.254				
	> 88.9 ≤ 114.3	+0.381/-0.381				
	> 114.3 ≤ 152.4	+0.508/-0.508				
	> 152.4 ≤ 168.3	+0.635/-0.635				