Tube Specification ASTM	Out Side Diameter (mm)	Permissible variations in Outside Diameter (mm)		Permissible variations in Outside Diameter (mm)		Permissible variations in Wall Thickness (mm)												Under As THK HF 5/ CFS/ WL.D
		Over		Under		Over												
						2.4 Wt.			> 2.4 to 3.8 Ind.			> 3.8-4.6 Ind.			> 4.6			
		HF Seamless	CFS and Welded	HFS	CFS and Welded	HFS	CFS	WLD	HFS	CFS	WLD	HFS	CFS	WLD	HFS	CFS	WLD	
A -213 Seamless Ferritic & Austiinitc Tube	Under 25.4 25.4 to 38.1 Incl. Over 38.1 to 50.8 Excl.		0.10 0.15 0.20		0.10 0.15 0.20	40 %	20 %	18 %	35 %	20 %		33 %	20 %	18 %	28 %	20 %	18 %	
A 249 Welded Heat Ex. & Condenser Tube	Over 50.8 to 63.5 Excl. Over 63.5 to 76.2 Excl.	0.4	0.25 0.30	0.8	0.25 0.30	22 %			22 %			22 %			22 %			
A 269 Seamless & Welded Austinitic S.S Tubes	Over 76.2 to 101.6 Incl. Over 101.6 to 190.5 Incl.		0.38 0.38	1.2	0.38 0.64													