

ALL FITTINGS							90° / 60° / 15° / 30° ELBOWS AND TEES			REDUCERS			180. RETURNS				CAPS			ANGULARITY TOLERANCE											
Nominal Pipe Size Inches	Outside Diameter at Bevel		Inside Diameter at End		Wall Thickness			Center End Dimension			Overall Length			Center to Center Dimension		Back to Face Dimension		Alignment of Ends		Overall Length			Nominal Pipe Size Inches	Off Angle		Off Plane					
	D		T		A, B, C, M			H			O		K		U		E/E1			Q		P									
	(1) B 16.9 MSS SP 75 [Note 1,6]	MSS SP 75	(2) B 16.9 MSS SP 75 [Note 1,7]	MSS SP 75	B 16.9 MSS SP 43 MSS SP 75 [Note 7]	MSS SP 43	MSS SP 75	B 16.9 MSS SP 43 MSS SP 75	MSS SP 43	MSS SP 75	B 16.9 MSS SP 43 MSS SP 75	MSS SP 43	MSS SP 75	B 16.9 MSS SP 43 MSS SP 75	MSS SP 43	MSS SP 75	B 16.9 MSS SP 43 MSS SP 75	MSS SP 43	MSS SP 75	B 16.9 MSS SP 43 MSS SP 75	MSS SP 43	MSS SP 75	B 16.9 MSS SP 43 MSS SP 75	MSS SP 43	MSS SP 75	B 16.9 MSS SP 43 MSS SP 75	MSS SP 43	MSS SP 75			
1/2" to 2 1/2"	+1.6 to -0.8		+0.8 to +1.6		Not Less Than of Nominal Thk of	87.5% of 0.25mm	16" to 24"	From 1/2" to 24"	From 3/4" to 8"	From 1/2" to 24"	From 3/4" to 8"	16" to 24"	From 1/2" to 8"	From 1/2" to 8"	From 1/2" to 24"	From 1/2" to 24"	From 1/2" to 8"	From 1/2" to 8"	From 1/2" to 4"	From 1/2" to 4"	From 1/2" to 4"	From 1/2" to 4"	From 1/2" to 4"	From 1/2" to 4"	+1 to +2	16" to 24"	+2 to +4	16" to 24"			
3" to 4"	+1.6						From 16"	From 26"	From 10"	From 26"		From 26"	From 10"	From 10"		From 10"	From 10"	From 5"	From 10"	From 10"	From 5"	From 16"	From 16"	From 16"							
5" to 8"	+2.4 to -1.6	+1.59 to -0.79					From 16" to 36"	From 26" to 30"	From 10" to 24"	From 26" to 36"		From 10" to 24"	From 26" to 36"	From 10" to 24"	From 10" to 26"		From 10" to 24"	From 10" to 24"	From 5" to 24"	From 10" to 24"	From 10" to 24"	From 5" to 24"	From 16" to 24"	From 16" to 24"	From 16" to 24"						
10" to 18"	+4 to -3	+2.38 to -0.79	+3.2 to +3.2	+24 to +3.2			87.5% of Nominal Thk	16" to 24"	+3 to +2.38	From 10" to 24"	From 26" to 36"	From 10" to 24"	From 26" to 36"	From 10" to 24"	From 10" to 26"		From 10" to 24"	From 10" to 24"	From 5" to 24"	From 10" to 24"	From 10" to 24"	From 5" to 24"	From 16" to 24"	From 16" to 24"	From 16" to 24"						
20" to 48"	+6 to -4.8	+3.17 to -0.79	+4.8 to +3.2	From 38" to 48"				26" to 36"	From 32" to 48"	From 38" to 48"	From 26" to 48"	From 38" to 48"	From 26" to 48"	+2.38 to +9.5	38" to 48"		OUT OF ROUNDNESS MSS SP 75(3)				From 26" to 48"	From 5" to 24"	26" to 48"	32" to 42"	+5 to +5	+3.2 to +19	+13 to +19	+19 to +19			
						0.25mm	+5	+4.8	+5	+9.5					Nominal Pipe Size Inches	At Ends of Fittings	Though out Body of Elbow	For 3 R MSS SP 75													

