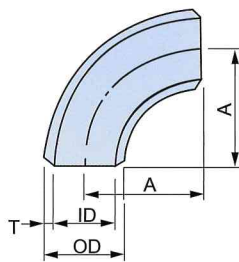


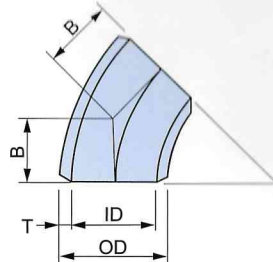
ELBOW

Long & Short Radius

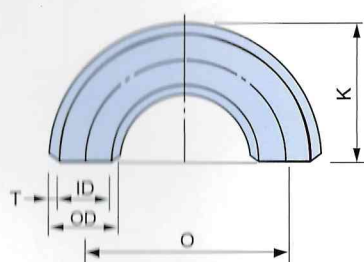
ASME B 16.9
ASME B 36.10
ASME B 36.19



90°ELBOW (LONG)



45°ELBOW (LONG)



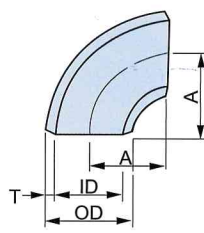
180°ELBOW (LONG)

Nominal Pipe Size		Dimensions	Wall Thickness		Long Radius	Short Radius
			Sch. No.	T		
NPS	DN	mm		mm	mm	mm
1/2	15	21.3	5/5s	1.65	A = 38 B = 16 O = 76 K = 48	-
			10/10s	2.11		
			30	2.41		
			STD/40/40s	2.77		
			XS/80/80s	3.73		
			160	4.78		
			XXS	7.47		
3/4	20	26.7	5/5s	1.65	A = 38 B = 19 O = 76 K = 51	-
			10/10s	2.11		
			30	2.41		
			STD/40/40s	2.87		
			XS/80/80s	3.91		
			160	5.56		
			XXS	7.82		
1	25	33.4	5/5s	1.65	A = 38 B = 22 O = 76 K = 56	A = 25 O = 51 K = 41
			10/10s	2.77		
			30	2.90		
			STD/40/40s	3.38		
			XS/80/80s	4.55		
			160	6.35		
			XXS	9.09		
1 1/4	32	42.2	5/5s	1.65	A = 48 B = 25 O = 95 K = 70	A = 32 O = 64 K = 52
			10/10s	2.77		
			30	2.97		
			STD/40/40s	3.56		
			XS/80/80s	4.85		
			160	6.35		
			XXS	9.70		
1 1/2	40	48.3	5/5s	1.65	A = 57 B = 29 O = 114 K = 83	A = 38 O = 76 K = 62
			10/10s	2.77		
			30	3.18		
			STD/40/40s	3.68		
			XS/80/80s	5.08		
			160	7.14		
			XXS	10.15		
2	50	60.3	5/5s	1.65	A = 76 B = 35 O = 152 K = 106	A = 51 O = 102 K = 81
			10/10s	2.77		
			30	3.18		
			STD/40/40s	3.91		
			XS/80/80s	5.54		
			160	8.74		
			XXS	11.07		

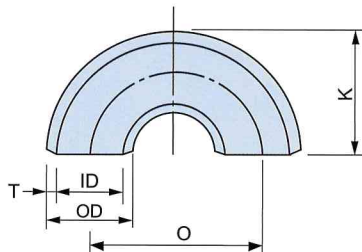
ELBOW

Long & Short Radius

ASME B 16.9
ASME B 36.10
ASME B 36.19



90°ELBOW (SHORT)



180°ELBOW (SHORT)

Nominal Pipe Size		Dimensions	Wall Thickness		Long Radius	Short Radius
			Sch. No.	T		
NPS	DN	mm		mm	mm	mm
2 1/2	65	73.0	5/5s	2.11	A = 95 B = 44 O = 190 K = 132	A = 64 O = 127 K = 100
			10/10s	3.05		
			30	4.78		
			STD/40/40s	5.16		
			XS/80/80s	7.01		
			160	9.53		
			XXS	14.02		
3	80	88.9	5/5s	2.11	A = 114 B = 51 O = 229 K = 159	A = 76 O = 152 K = 121
			10/10s	3.05		
			30	4.78		
			STD/40/40s	5.49		
			XS/80/80s	7.62		
			160	11.13		
			XXS	15.24		
3 1/2	90	101.6	5/5s	2.11	A = 133 B = 57 O = 267 K = 184	A = 89 O = 178 K = 140
			10/10s	3.05		
			30	4.78		
			STD/40/40s	5.74		
			XS/80/80s	8.08		
4	100	114.3	5/5s	2.11	A = 152 B = 64 O = 305 K = 210	A = 102 O = 203 K = 159
			10/10s	3.05		
			30	4.78		
			STD/40/40s	6.02		
			XS/80/80s	8.56		
			120	11.13		
			160	13.49		
			XXS	17.12		
5	125	141.3	5/5s	2.77	A = 190 B = 79 O = 381 K = 262	A = 127 O = 254 K = 197
			10/10s	3.40		
			STD/40/40s	6.55		
			XS/80/80s	9.53		
			120	12.70		
			160	15.88		
			XXS	19.05		
6	150	168.3	5/5s	2.77	A = 229 B = 95 O = 457 K = 313	A = 152 O = 305 K = 237
			10/10s	3.40		
			STD/40/40s	7.11		
			XS/80/80s	10.97		
			120	14.27		
			160	18.26		
			XXS	21.95		