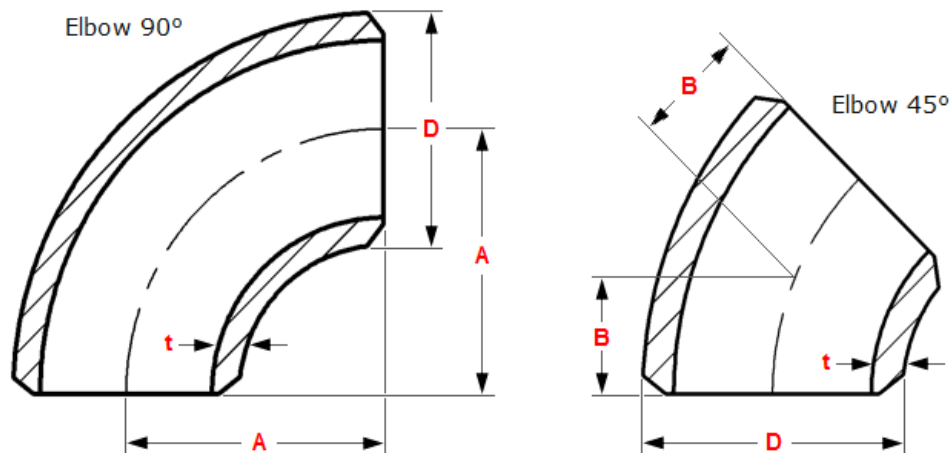




Dimensions of Long Radius Elbows - ASME B16.9



NPS	OD, D	Center to End	
		90 deg Elbows, A	45 deg Elbows, B
1/2	21.3	38	16
3/4	26.7	38	19
1	33.4	38	22
1 1/4	42.2	48	25
1 1/2	48.3	57	29
2	60.3	76	35
2 1/2	73	95	44
3	88.9	114	51
3 1/2	101.6	133	57
4	114.3	152	64
5	141.3	190	79
6	168.3	229	95
8	219.1	305	127
10	273	381	159
12	323.8	457	190
14	355.6	533	222
16	406.4	610	254
18	457	686	286
20	508	762	318
22	559	838	343
24	610	914	381
26	660	991	406
28	711	1067	438
30	762	1143	470
32	813	1219	502
34	864	1295	533
36	914	1372	565
38	965	1448	600
40	1016	1524	632
42	1067	1600	660
44	1118	1676	695
46	1168	1753	727
48	1219	1829	759