



SINCE 1976

BUTT WELD ELBOWS 45-90 LR AND 3D ASME B16.9

NPS	O.D.	90° Long Rad Center to End	45° Long Rad Center to End	90° 3D Center to End	45° 3D Center to End
	D	A	B	A	B
1/2	21.3	38	16		
3/4	26.7	38	19	57	24
1	33.4	38	22	76	31
1¼	42.2	48	25	95	39
1½	48.3	57	29	114	47
2	60.3	76	35	152	63
2½	73	95	44	190	79
3	88.9	114	51	229	95
3½	101.6	133	57	267	111
4	114.3	152	64	305	127
5	141.3	190	79	381	157
6	168.3	229	95	457	189
8	219.1	305	127	610	252
10	273	381	159	762	316
12	323.8	457	190	914	378
14	355.6	533	222	1,067	441
16	406.4	610	254	1,219	505
18	457	686	286	1372	568
20	508	762	318	1524	632
22	559	838	343	1676	694
24	610	914	381	1829	757
26	660	991	406	1981	821
28	711	1067	438	2134	883
30	762	1143	470	2286	946
32	813	1219	502	2438	1010
34	864	1295	533	2591	1073
36	914	1372	565	2743	1135
38	965	1448	600	2896	1200
40	1016	1524	632	3048	1264
42	1067	1600	660	3200	1326
44	1118	1676	695	3353	1389
46	1168	1753	727	3505	1453
48	1219	1829	759	3658	1516

Dimensions are in millimeters unless otherwise indicated. Wall thickness (t) must be specified by customer.

