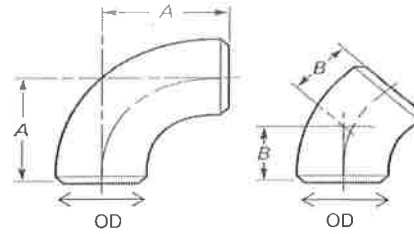


Long Radius Elbows

ASME/ASTM SA/A403-WP304/304L, WP316/316L

ASME B16.9

45° & 90° Elbow



Size	Outside Diameter at Bevel (OD)	Center-to-End		Approximate Weight(kg)									
		90° (A)	45° (B)	90° (Elbows)					45° (Elbows)				
		mm	mm	10S	STD	40S/40	XS	80S/80	10S	STD	40S/40	XS	80S/80
½"	21.3	38.00	16.00	0.06	0.08	0.08	0.10	0.10	0.03	0.04	0.04	0.05	0.05
¾"	26.7	38.00	19.00	0.08	0.10	0.10	0.14	0.14	0.04	0.06	0.06	0.08	0.08
1"	33.4	38.00	22.00	0.13	0.15	0.15	0.20	0.20	0.09	0.11	0.11	0.10	0.10
1 ¼"	42.2	48.00	25.00	0.21	0.26	0.26	0.35	0.35	0.11	0.17	0.17	0.18	0.18
1 ½"	48.3	57.00	29.00	0.28	0.37	0.37	0.51	0.51	0.17	0.23	0.23	0.25	0.25
2"	60.3	76.00	35.00	0.48	0.65	0.65	0.90	0.90	0.25	0.40	0.40	0.47	0.47
2 ½"	73.0	95.00	44.00	0.81	1.37	1.37	1.79	1.79	0.48	0.77	0.77	0.90	0.90
3"	88.9	114.00	51.00	1.14	2.04	2.04	2.87	2.87	0.63	1.08	1.08	1.44	1.44
3 ½"	101.6	133.00	57.00	1.70	2.82	2.82	4.00	4.00	0.75	1.42	1.42	2.05	2.05
4"	114.3	152.00	64.00	1.97	3.84	3.84	5.45	5.45	1.08	2.09	2.09	2.81	2.81
5"	141.3	190.00	79.00	3.42	6.48	6.48	9.69	9.69	1.81	3.43	3.43	4.85	4.85
6"	168.3	229.00	95.00	3.60	9.94	9.94	15.99	15.99	2.72	5.44	5.44	8.02	8.02
8"	219.1	305.00	127.00	10.00	20.10	20.10	31.70	31.70	5.33	10.77	10.77	16.22	16.22
10"	273.1	381.00	159.00	11.70	37.00	37.00	48.60	57.11	9.75	19.28	19.28	24.30	30.00
12"	323.9	457.00	190.00	28.00	54.00	58.15	70.00	94.82	13.61	27.00	29.57	36.80	49.94
14"	355.6	533.00	222.00	36.29	69.00	70.31	94.35	132.16	18.14	32.93	35.15	47.20	69.92
16"	406.4	610.00	254.00	47.63	91.00	91.63	124.75	204.30	23.81	43.31	45.81	62.00	102.15
18"	457.2	686.00	286.00	59.87	116.00	177.06	157.50	287.84	29.94	54.99	88.53	79.00	143.92
20"	508.0	762.00	318.00	82.09	140.00	230.00	194.30	390.90	49.90	68.13	114.00	97.16	195.67
22"	558.8	838.00	343.00	99.44	170.00	-	236.00	523.40	58.32	81.13	-	118.00	256.70
24"	609.6	914.00	381.00	135.59	206.00	384.00	268.50	667.40	70.31	98.57	192.04	141.20	333.70
26"	660.4	991.00	406.00	-	242.00	-	348.00	-	-	114.11	-	166.00	-
28"	711.2	1067.00	438.00	-	275.00	-	404.00	-	-	132.73	-	190.00	-
30"	762.0	1143.00	470.00	269.00	324.00	-	441.00	-	139.00	152.75	-	218.00	-
32"	812.8	1219.00	502.00	-	349.53	-	510.00	-	-	156.24	-	240.00	-
34"	863.6	1295.00	533.00	-	395.24	-	560.00	-	-	196.96	-	272.00	-
36"	914.4	1372.00	565.00	-	443.71	-	625.00	-	-	221.20	-	304.00	-
38"	965.2	1448.00	600.00	-	497.71	-	710.00	-	-	248.15	-	339.00	-
40"	1016.0	1524.00	632.00	-	551.98	-	745.00	-	-	257.35	-	376.00	-
42"	1066.8	1600.00	660.00	-	606.16	-	840.00	-	-	301.34	-	414.00	-
44"	1117.8	1676.00	695.00	-	669.04	-	970.00	-	-	333.68	-	456.00	-
46"	1168.4	1753.00	727.00	-	731.69	-	1055.00	-	-	365.07	-	498.00	-
48"	1219.2	1829.00	759.00	-	797.28	-	1134.00	-	-	397.69	-	542.00	-

General Notes:

1) All dimensions are in mm

2) Dimension tolerance are as per ASME B16.9