

## Long and short Radius Elbow

Nominal Pipe Size, NPS	Outside Diameter at Bevel, OD	ASME B16.9 B16.28				Unit: mm
		Center-to-End				
		Long Radius Elbow		Short Radius Elbow		
90 Deg. A	45 Deg. B	90 Deg. A	45 Deg. B			
1/2"	21.3	38.1	15.7	-	-	
3/4"	26.7	38.1	19.0	-	-	
1"	33.4	38.1	22.4	25.4	-	
1.1/4"	42.2	47.8	25.4	31.8	-	
1.1/2"	48.3	57.2	28.4	38.1	-	
2"	60.3	76.2	35.0	50.8	-	
2.1/2"	73.0	95.2	44.4	63.5	-	
3"	88.9	114.3	50.8	76.2	31.6	
3.1/2"	101.6	113.4	57.2	88.9	36.8	
4"	114.3	152.4	63.5	101.6	42.1	
5"	141.3	190.5	79.2	127.0	52.6	
6"	168.3	228.6	95.2	152.4	63.4	
8"	219.1	304.8	127.0	203.2	84.2	
10"	273.0	381.0	158.8	254.0	105.2	
12"	323.8	457.2	190.5	304.8	126.3	
14"	355.6	533.4	222.2	355.6	147.3	
16"	406.4	609.6	254.0	406.4	168.3	
18"	457.2	685.8	285.8	457.2	189.4	
20"	508.0	762.0	317.5	508.0	210.4	
22"	558.8	838.2	342.9	558.8	231.5	
24"	609.6	914.4	381.0	609.6	252.5	
26"	660.4	990.6	406.4	660.4	273.5	
28"	711.2	1066.8	438.2	711.2	294.6	
30"	762.0	1143.0	469.9	762.0	315.6	
32"	812.8	1219.2	501.6	812.8	336.7	
34"	863.6	1295.4	533.4	863.6	357.7	
36"	914.4	1371.6	565.2	914.4	378.8	
38"	965.2	1447.8	599.9	965.2	-	
40"	1016.0	1524.0	632.0	1016.0	420.8	
42"	1066.8	1600.2	660.4	1066.8	441.9	
44"	1117.6	1676.4	695.4	1117.6	462.9	
46"	1168.4	1752.6	726.9	1168.4	-	
48"	1219.2	1828.8	759.0	1219.2	505.0	
50"	1270.0	-	-	-	-	
52"	1320.8	1982.0	821.0	1320.8	547.1	
54"	1371.6	2057.4	852.2	1371.6	568.1	
56"	1422.4	2133.6	883.8	1422.4	589.2	
58"	1473.2	2210.0	915.0	-	-	
60"	1524.0	2286.0	946.9	1524.0	631.3	
62"	1574.8	-	-	-	-	
64"	1625.6	2439.0	1010.0	-	-	
66"	1676.4	2514.6	1041.6	-	-	
68"	1727.2	2591.0	1073.0	-	-	
70"	1778.0	-	-	-	-	
72"	1828.8	2743.2	1136.0	-	841.7	
76"	1930.0	2895	1200	-	-	
78"	1981.0	2972	1231	-	-	
80"	2032.0	3048	1262	-	-	
84"	2134.0	3201	1325	-	-	
100"	2540.0	3810	1578	-	-	

Factory Standard, size must be agreed by seller and buyer

## Long and short Return Elbow

Nominal Pipe Size, NPS	Outside Diameter at Bevel, OD	ASME B16.9 B16.28				Unit: mm
		Long Radius Elbow		Short Radius Elbow		
		Center-to-center O	Back-to-Face K	Center-to-center O	Back-to-Face K	
1/2"	21.3	76.2	47.8	-	-	
3/4"	26.7	76.2	50.8	-	-	
1"	33.4	76.2	55.6	50.8	41.1	
1.1/4"	42.2	95.2	69.8	63.5	52.3	
1.1/2"	48.3	114.3	82.6	76.2	62	
2"	60.3	152.4	106.4	101.6	81	
2.1/2"	73.0	190.5	131.8	127	100.1	
3"	88.9	228.6	158.8	152.4	120.7	
3.1/2"	101.6	266.7	184.2	177.8	139.7	
4"	114.3	304.8	209.6	203.2	158.8	
5"	141.3	381	261.9	254	196.9	
6"	168.3	457.2	312.7	304.8	236.5	
8"	219.1	609.6	414.3	406.4	312.7	
10"	273.0	762	517.6	508	390.7	

