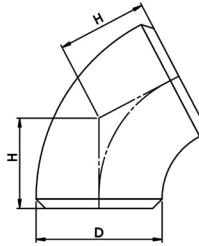
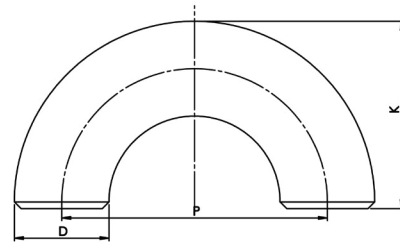


90° ELBOW



45° ELBOW



180° ELBOW

Nominal Pipe Size		Outside Diameter (mm)	Center To End		Center To Center		End To End		
			90° Elbow (F)		45° Elbow (H)	180° Elbow (P)		180° Elbow (K)	
DN	NPS		Long	Short	Long	Long	Short	Long	Short
15	1/2"	21.7	38.1	-	15.8	76.2	-	49.0	-
20	3/4"	27.2	38.1	-	15.8	76.2	-	51.7	-
25	1"	34.0	38.1	25.4	15.8	76.2	50.8	55.1	42.4
32	1 1/4"	42.7	47.6	31.8	19.7	95.2	63.6	69.0	53.2
40	1 1/2"	48.6	57.2	38.1	23.7	114.4	76.2	81.5	62.4
50	2"	60.5	76.2	50.8	31.6	152.4	101.6	106.5	81.1
65	2 1/2"	76.3	95.3	63.5	39.5	190.6	127.0	133.5	101.7
80	3"	89.1	114.3	76.2	47.3	228.6	152.4	158.9	120.8
90	3 1/2"	101.6	133.4	88.9	55.3	266.8	177.8	184.2	139.7
100	4"	114.3	152.4	101.6	63.1	304.8	203.2	209.6	158.8
125	5"	139.8	190.5	127.0	78.9	381.0	254.0	260.4	196.9
150	6"	165.2	228.6	152.4	94.7	457.2	304.8	311.2	235.0
200	8"	216.3	304.8	203.2	126.3	609.6	406.4	413.0	311.4
250	10"	267.4	381.0	254.0	157.8	762.0	508.0	514.7	387.7
300	12"	318.5	457.2	304.8	189.4	914.4	609.6	616.5	464.1
350	14"	355.6	533.4	355.6	220.9	1066.8	711.2	711.2	533.4
400	16"	406.4	609.6	406.4	252.5	1219.2	812.8	812.8	609.6
450	18"	457.2	685.8	457.2	284.1	-	-	-	-
500	20"	508.0	762.0	508.0	315.6	-	-	-	-
550	22"	558.8	838.2	558.8	347.2	-	-	-	-
600	24"	609.6	914.4	609.6	378.7	-	-	-	-
650	26"	660.4	990.6	660.4	410.3	-	-	-	-
700	28"	711.2	1066.8	711.2	441.9	-	-	-	-
750	30"	762.0	1143.0	762.0	473.4	-	-	-	-