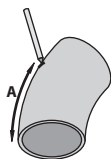
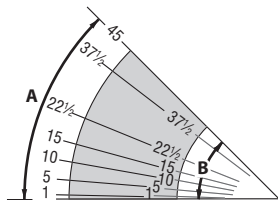
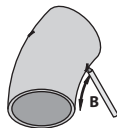


HOW TO CUT ODD-ANGLE ELBOWS



Step 1- Measure distance on outside arc using the values from the previous table & make a mark.

Step 2- Measure distance on inside arc using the values from the table below & make a mark.



Step 3- Wrap tape around elbow & mark cutting line.

Nom.	O.D.	1°		5°		10°		15°		22 ¹ / ₂ °		37 ¹ / ₂ °		45°	
		A	B	A	B	A	B	A	B	A	B	A	B	A	B
2	2.38	1/16	1/32	3/8	5/32	23/32	5/16	13/32	15/32	12 ¹ / ₃₂	23/32	23/4	13/16	39/32	17/16
2 ¹ / ₂	2.88	3/32	1/32	7/16	3/16	29/32	13/32	11 ¹ / ₃₂	19/32	21/32	29/32	313/32	1/2	41/16	113/16
3	3.50	3/32	1/16	17/32	1/4	13/32	15/32	15/8	23/32	215/32	13/32	43/32	113/16	429/32	25/32
3 ¹ / ₂	4.00	1/8	1/16	5/8	9/32	11/4	9/16	129/32	27/32	227/32	19/32	43/4	2/8	511/16	29/16
4	4.50	5/32	1/16	23/32	5/16	17/16	21/32	25/32	31/32	31/4	115/32	513/32	215/32	615/32	215/16
5	5.56	3/16	3/32	29/32	13/32	125/32	13/16	211/16	1/4	41/32	127/32	623/32	33/32	81/16	323/32
6	6.63	7/32	3/32	11/16	1/2	25/32	1	37/32	1/2	427/32	27/32	81/16	323/32	921/32	415/32
8	8.63	9/32	1/8	17/16	21/32	227/32	111/32	49/32	2	613/32	31/32	1011/16	51/32	1213/16	61/32
10	10.75	11/32	5/32	125/32	27/32	39/16	111/16	511/32	217/32	8	325/32	1311/32	65/16	16	79/16
12	12.75	7/16	3/16	21/8	1	41/4	21/32	63/8	31/32	99/16	49/16	1531/32	719/32	195/32	91/8
14	14.00	1/2	1/4	27/16	7/32	47/8	27/16	711/32	321/32	11	51/2	185/16	95/32	22	11
16	16.00	9/16	9/32	225/32	113/32	519/32	225/32	83/8	43/16	129/16	69/32	2015/16	1015/32	251/8	19/16
18	18.00	5/8	5/16	35/32	19/16	69/32	35/32	97/16	423/32	141/8	71/16	239/16	1125/32	289/32	141/8
20	20.00	11/16	11/32	31/2	13/4	631/32	31/2	1015/32	51/4	1523/32	727/32	23/16	133/32	3113/32	1523/32
22	22.00	25/32	3/8	327/32	129/32	711/16	327/32	1117/32	53/4	179/32	85/8	2813/16	1413/32	349/16	179/32
24	24.00	27/32	13/32	43/16	23/32	83/8	43/16	129/16	69/32	1827/32	97/16	3113/32	1523/32	3711/16	1827/32
26	26.00	29/32	15/32	417/32	29/32	91/16	417/32	135/8	613/16	2013/32	107/32	341/32	171/32	4027/32	2013/32
30	30.00	11/16	17/32	51/4	25/8	1015/32	51/4	1523/32	727/32	239/16	1125/32	399/32	195/8	471/8	239/16
34	34.00	13/16	19/32	515/16	231/32	117/8	515/16	1713/16	829/32	2623/32	1311/32	441/2	221/4	5313/32	2623/32
36	36.00	11/4	5/8	69/32	35/32	129/16	69/32	1827/32	97/16	289/32	141/8	471/8	239/16	569/16	289/32
42	42.00	115/32	23/32	711/32	321/32	1421/32	711/32	22	11	33	161/2	5431/32	271/2	6531/32	33