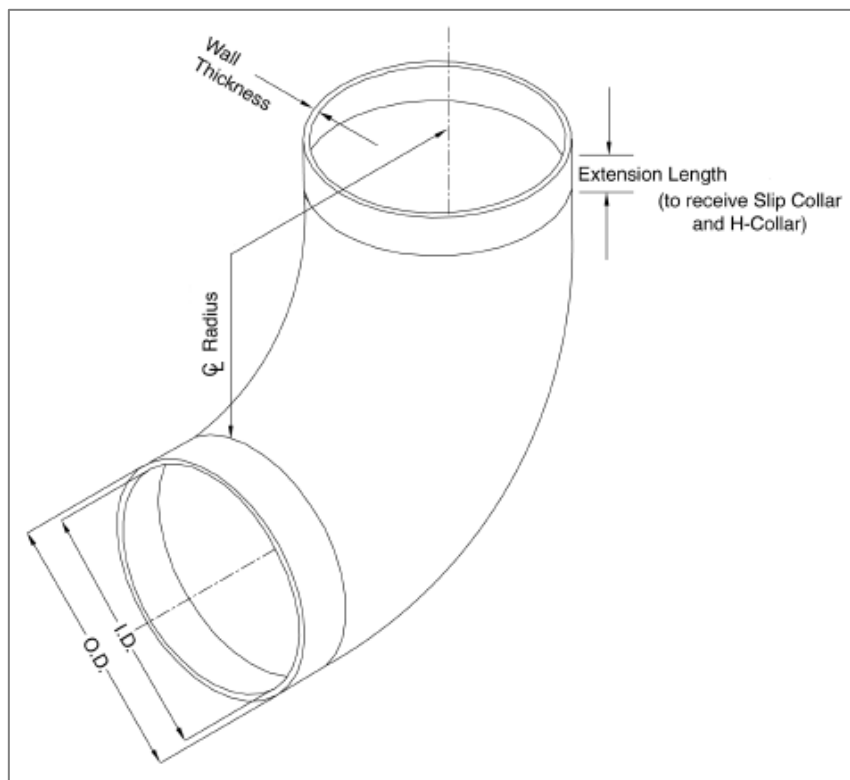
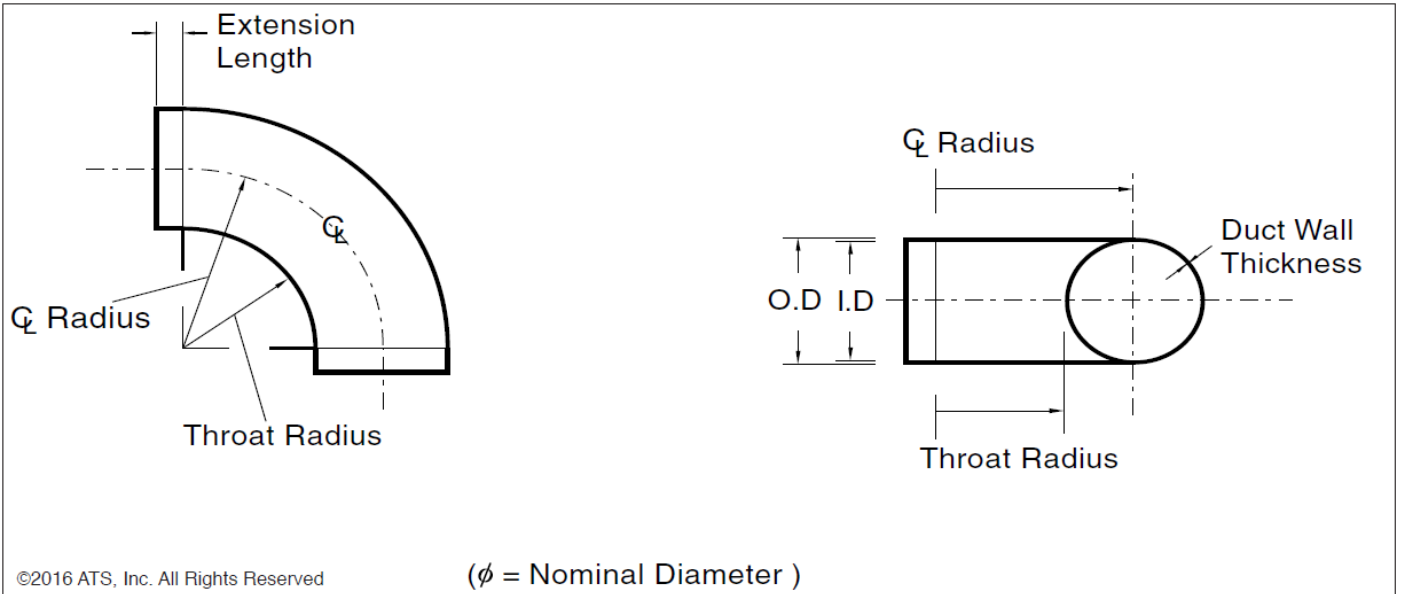


## Elbows

### Round 90° Sweep Elbow

(ATS Part Type #20)





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Our standard radius 90° sweep elbows have a centerline (CL) radii equal to 1.5 times the nominal diameter. Extensions at each end of the elbow facilitate the use of ATS H-Collars (or ATS internal slip collars) for joining purposes.

If the elbow you require exceeds the size range, requires a shorter turning radius, or is otherwise unavailable as a standard radius sweep elbow, refer to ATS part types listed below:

#19–Round Special Radius Sweep Elbow  
#21–Round 90° Short Radius Sweep Elbow  
#22–Round 90° 2 Gore Mitered Elbow  
#23–Round 90° Standard Radius 3 Gore  
#24–Round 90° 3 Gore Mitered Elbow  
#25–Round 90° 5 Gore Mitered Elbow  
#26–Round 60° Standard Radius Sweep Elbow

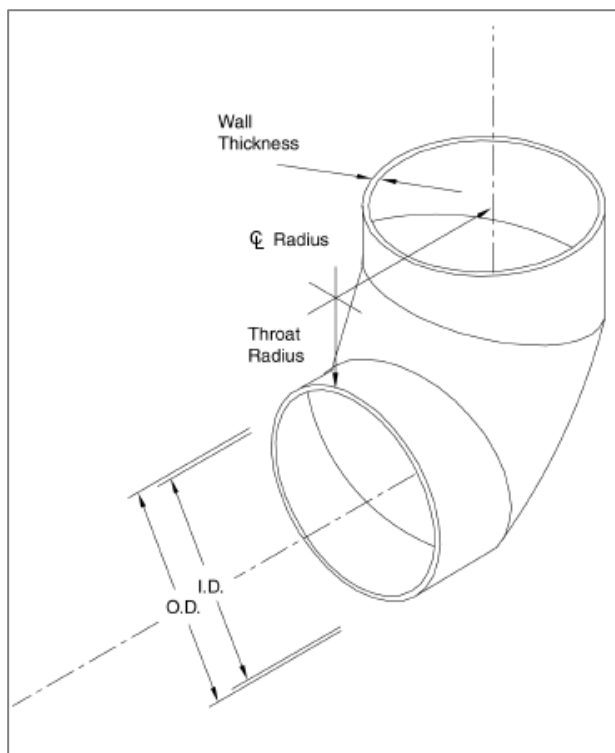
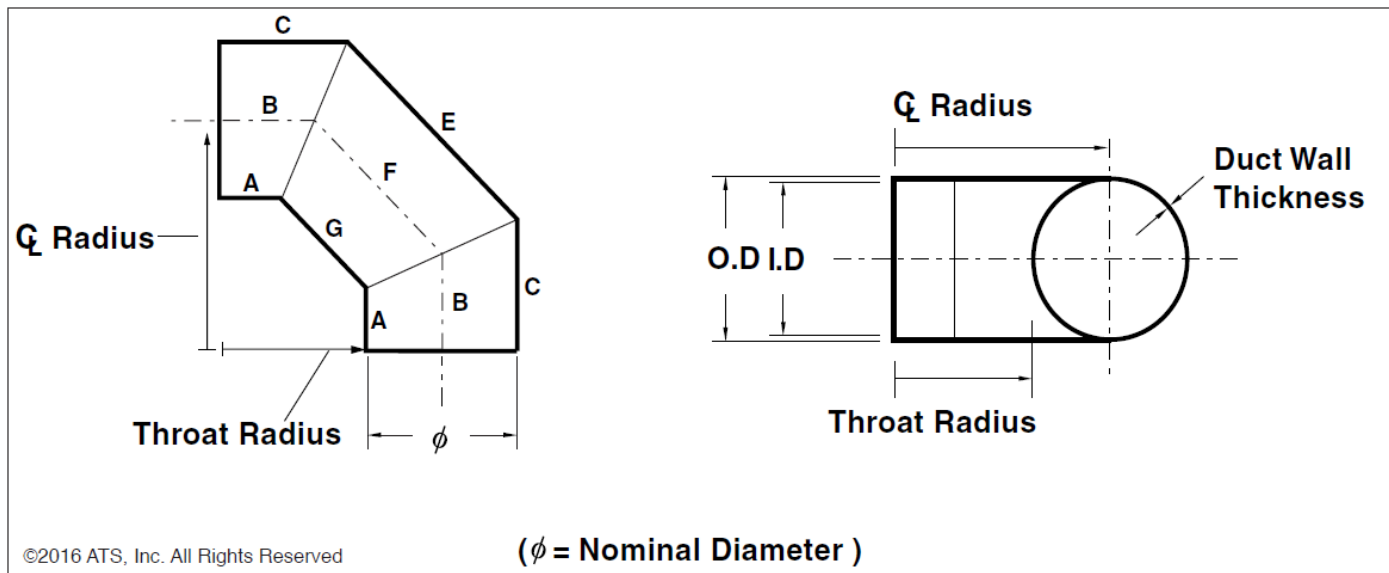
#27–Round Standard Radius Sweep Elbow (degree specified)  
#28–Round Mitered Elbow (degree specified)  
#30–Round 45° Sweep Elbow  
#32–Round 45° 2 Gore Mitered Elbow Mitered Elbow  
#33–Round 45° 3 Gore Mitered Elbow  
#35–Round 30° Sweep Elbow

Nominal Diameter		Inner Diameter		Outer Diameter		Throat Radius		Centerline Radius		Wall Thickness		Weight		Extension Length	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kgs	in	mm
2	50	2 1/4	57	2 7/16	62	1 13/16	46	3	76	5/32	4	0.5	0.2	3/4	19
3	75	3 1/4	83	3 7/16	87	2 13/16	71	4 1/2	114	5/32	4	1.7	0.8	1	25
4	100	4 1/4	108	4 7/16	113	3 13/16	97	6	152	5/32	4	2.9	1.3	1 3/4	44
6	150	6 1/4	159	6 7/16	164	5 13/16	148	9	229	5/32	4	5	2.3	1 3/4	44
8	200	8 1/4	210	8 7/16	214	7 13/16	198	12	305	5/32	4	9	4.1	1 3/4	44
10	250	10 1/4	260	10 7/16	265	9 13/16	249	15	381	5/32	4	13	5.9	1 3/4	44
12	300	12 1/4	311	12 7/16	316	11 13/16	300	18	457	5/32	4	21	9.5	1 3/4	44
14	350	14 1/4	362	14 7/16	367	13 13/16	351	21	533	5/32	4	32	14.5	1 3/4	44
16	400	16 1/4	413	16 7/16	418	15 13/16	402	24	610	5/32	4	40	18.1	1 3/4	44
18	450	18 1/4	464	18 1/2	470	17 13/16	452	27	686	5/32	4	56	25.4	2	51
20	500	20 1/4	514	20 1/2	521	19 3/4	502	30	762	7/32	5	64	29	2	51
22	550	22 1/4	565	22 1/2	572	21 3/4	552	33	838	7/32	5	76	34.5	2	51
24	600	24 1/4	616	24 1/2	622	24 3/4	629	36	914	7/32	5	88	39.9	2	51
26	650	26 1/4	667	26 9/16	675	25 3/4	654	39	991	7/32	5	98	44.5	2	51
30	750	30 3/16	767	30 1/2	775	29 11/16	754	45	1143	7/32	5	112	50.8	2	51
32	800	32 3/16	818	32 1/2	826	31 11/16	805	48	1219	1/4	6	120	54.4	2	51
36	900	36 3/16	919	36 1/2	927	35 11/16	906	54	1372	1/4	6	140	63.5	2	51

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## Round 90° 3 Gore Mitered Elbow

(ATS Part Type #24)

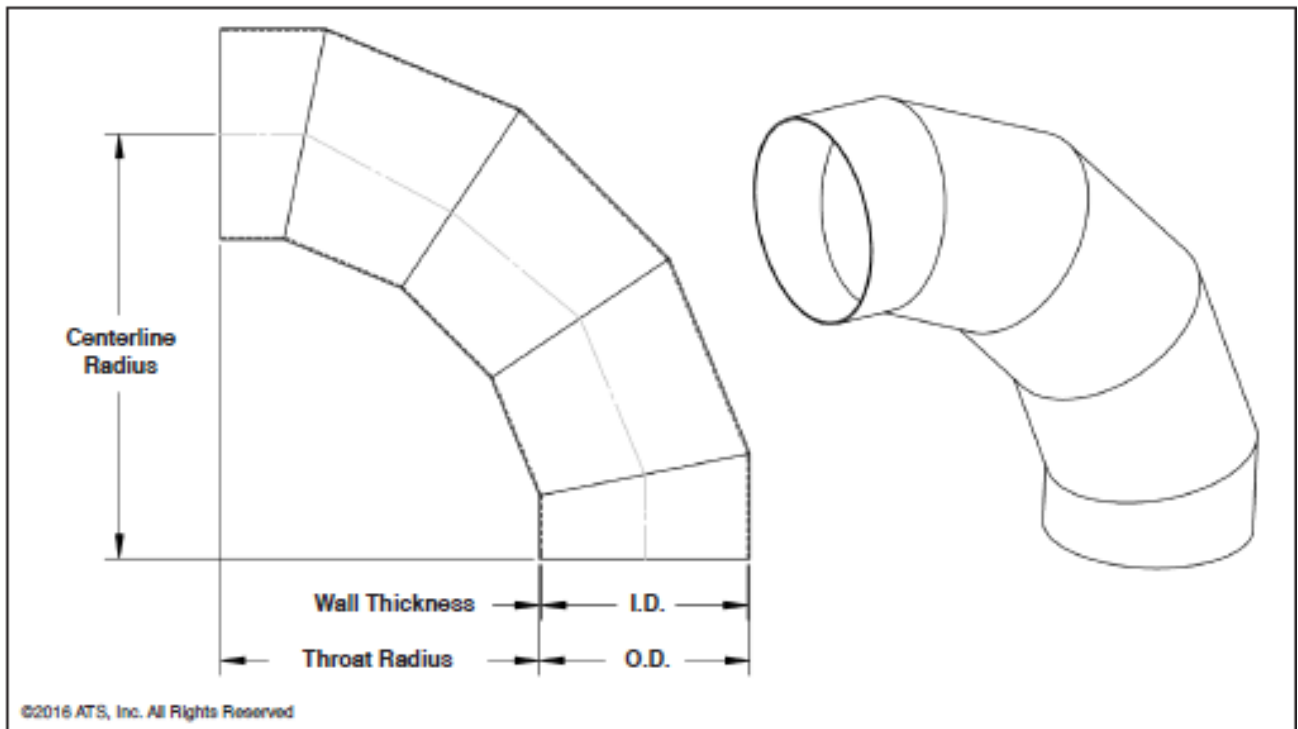


ATS 90° 3 gore mitered elbows are made to customer specifications. Part type #24 is ideal for applications where tight turning radii or other limitations on size and space make using standard sweep radius elbows impossible.

3 gore mitered elbows available in any standard nominal diameter.

## Round 90° 5 Gore Mitered Elbow

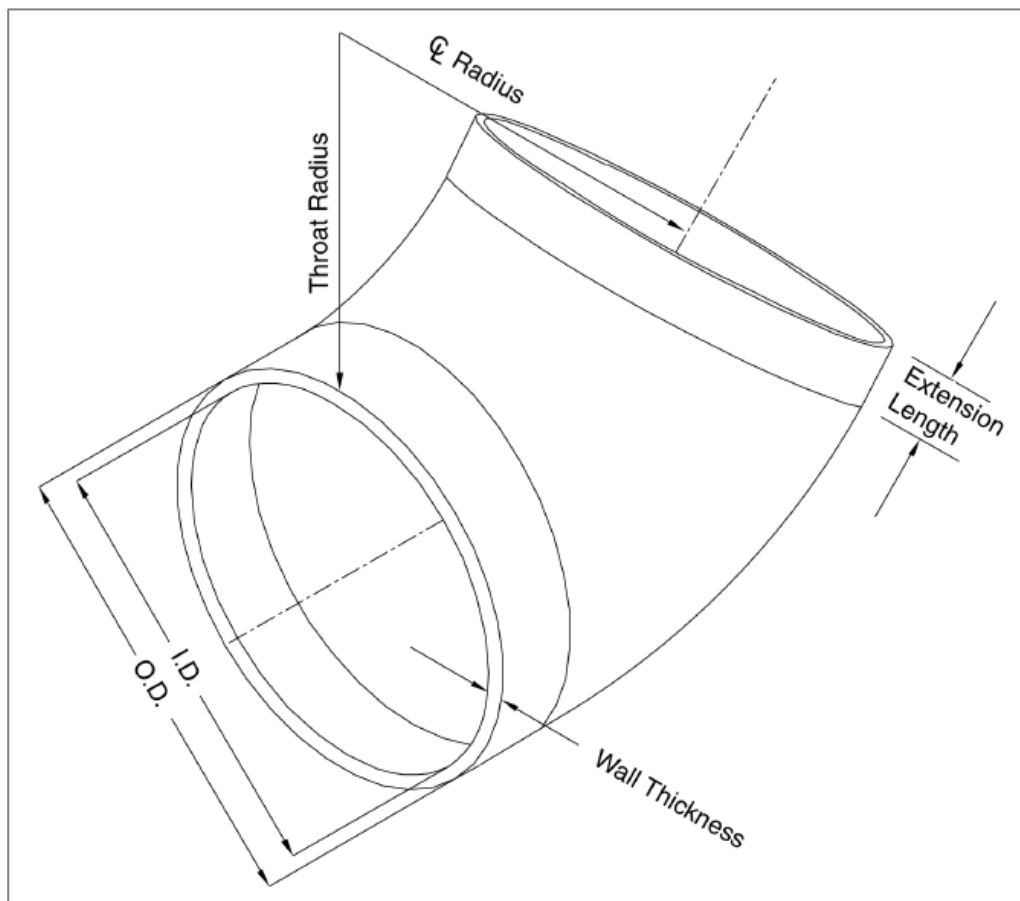
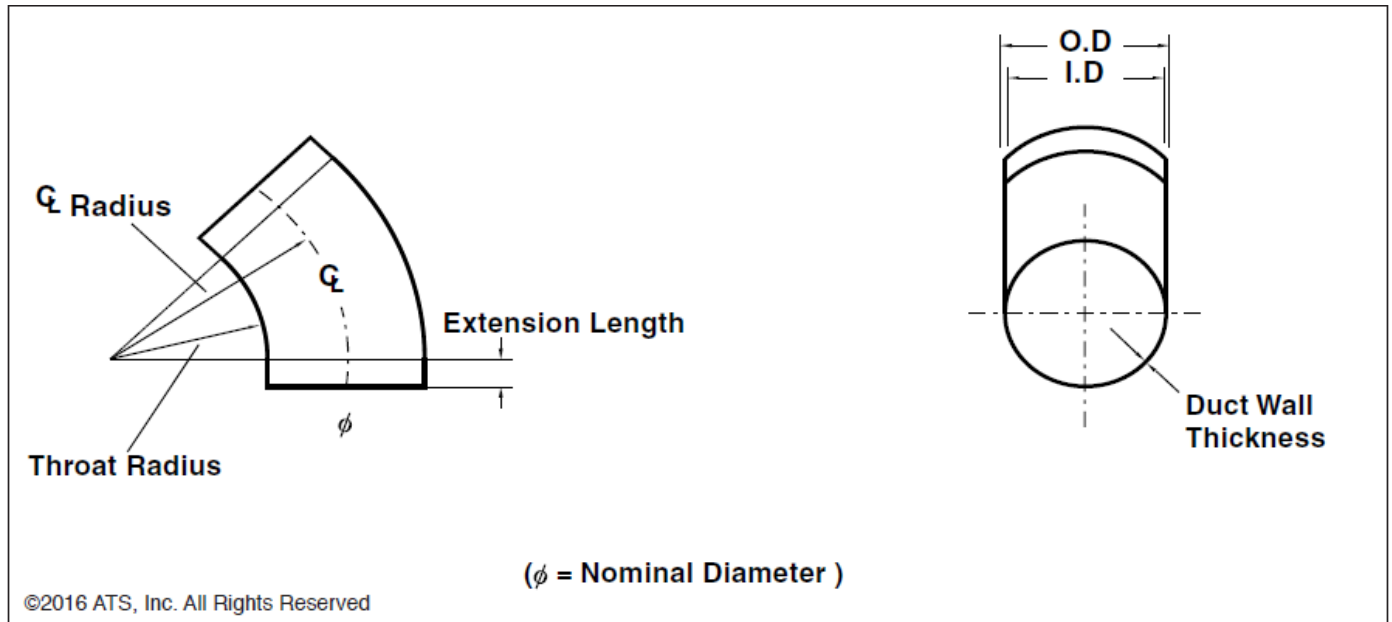
(ATS Part Type #25)



ATS 90° 5 gore mitered elbows are made to customer specifications. Part type #25 is used for better airflow. 5 gore mitered elbows available in any standard nominal diameter.

## Round 45° Sweep Elbow

(ATS Part Type #30)





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Our standard radius 45° sweep elbows have centerline radii equal to 1.5 times the nominal diameter. Extensions at each end of the elbow facilitate the use of ATS H-Collars (or ATS internal slip collars) for joining purposes.

If the 45° elbow size you require exceeds the size range, requires a shorter turn radius, or is otherwise unavailable as a sweep radius elbow, refer to ATS part types listed below:

#19–Round Special Radius Sweep Elbow  
#21–Round 90° Short Radius Sweep Elbow  
#22–Round 90° 2 Gore Mitered Elbow  
#23–Round 90° Standard Radius 3 Gore  
#24–Round 90° 3 Gore Mitered Elbow  
#25–Round 90° 5 Gore Mitered Elbow  
#26–Round 60° Standard Radius Sweep Elbow

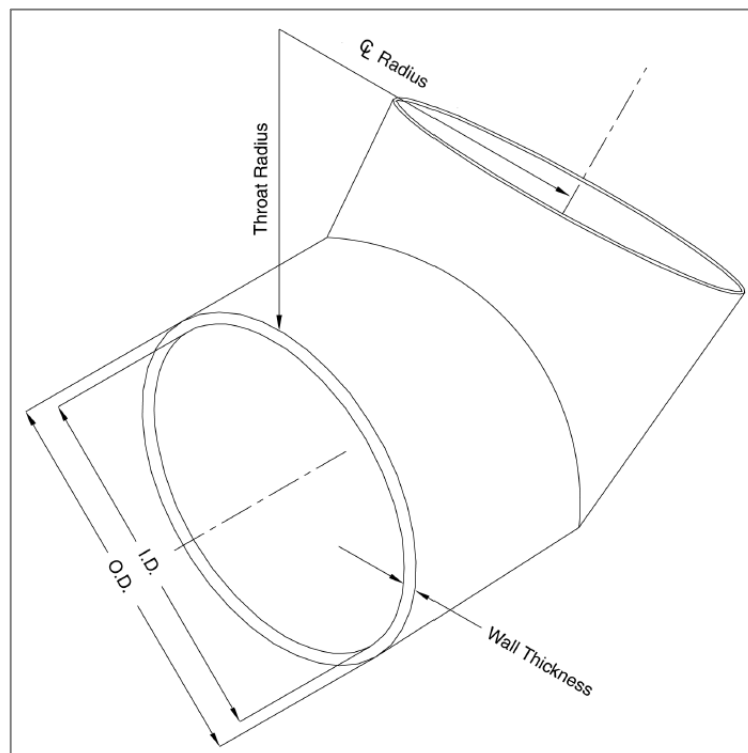
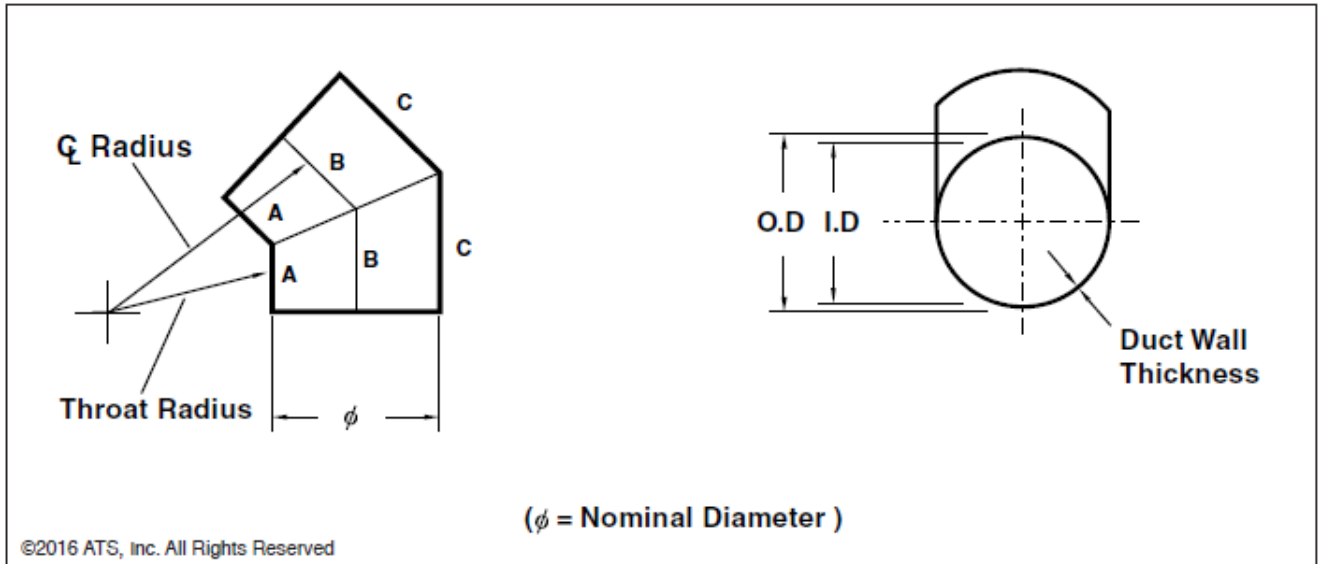
#27–Round Standard Radius Sweep Elbow (degree specified)  
#28–Round Mitered Elbow (degree specified)  
#30–Round 45° Sweep Elbow  
#32–Round 45° 2 Gore Mitered Elbow Mitered Elbow  
#33–Round 45° 3 Gore Mitered Elbow  
#35–Round 30° Sweep Elbow

Nominal Diameter		Inner Diameter		Outer Diameter		Throat Radius		Centerline Radius		Wall Thickness		Weight		Extension Length	
in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kgs	in	mm
2	50	2 1/4	57	2 3/8	60	1 13/16	46	3	76	5/32	4	0.3	0.1	3/4	19
3	75	3 1/4	83	3 3/8	86	2 13/16	71	4 1/2	114	5/32	4	0.8	0.4	1	25
4	100	4 1/4	108	4 3/8	111	3 13/16	97	6	152	5/32	4	1.5	0.7	1 3/4	44
6	150	6 1/4	159	6 3/8	162	5 13/16	148	9	229	5/32	4	3	1.4	1 3/4	44
8	200	8 1/4	210	8 3/8	213	7 13/16	198	12	305	5/32	4	6.5	2.9	1 3/4	44
10	250	10 1/4	260	10 3/8	264	9 13/16	249	15	381	5/32	4	7.1	3.2	1 3/4	44
12	300	12 1/4	311	12 3/8	314	11 13/16	300	18	457	5/32	4	11	5	1 3/4	44
14	350	14 1/4	362	14 3/8	365	13 13/16	351	21	533	5/32	4	18	8.2	1 3/4	44
16	400	16 1/4	413	16 3/8	416	15 13/16	402	24	610	5/32	4	20	9.1	1 3/4	44
18	450	18 1/4	464	18 7/16	468	17 13/16	452	27	686	7/32	5	27	12.2	2	51
20	500	20 1/4	514	20 7/16	519	19 3/4	502	30	762	7/32	5	32	14.5	2	51
22	550	22 1/4	565	22 7/16	570	21 3/4	552	33	838	7/32	5	38	17.2	2	51
24	600	24 1/4	616	24 7/16	621	24 3/4	629	36	914	7/32	5	42	19.1	2	51
26	650	26 1/4	667	26 7/16	672	25 3/4	654	39	991	7/32	5	47	21.3	2	51
30	750	30 3/16	767	30 3/8	772	29 11/16	754	45	1143	7/32	5	56	25.4	2	51
32	800	32 3/16	818	32 3/8	822	31 11/16	805	48	1219	1/4	6	60	27.2	2	51
36	900	36 3/16	919	36 7/16	930	35 11/16	906	54	1372	1/4	6	70	31.8	2	51

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## Round 45° 2 Gore Mitered Elbow

(ATS Part Type #32)



ATS 45° 2 gore mitered elbows are made to customer specifications. This part is ideal for applications where tight turning radii or other size/space limitations make using standard sweep radius elbows impossible. The use of ATS gored elbows allows for design and installation flexibility.

2 gore mitered elbows available in all standard nominal diameters.