



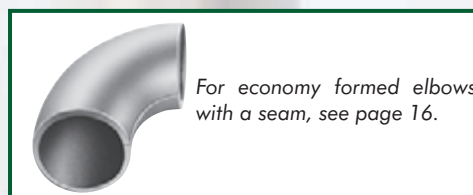
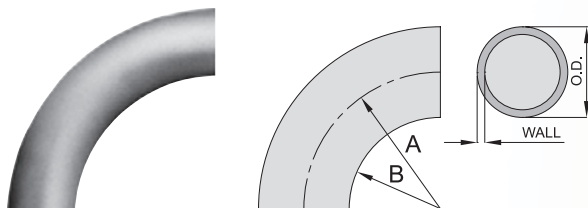
Sharpe Products offers the largest selection of stock bends which includes, economy formed elbows (with a seam) as well as mandrel bent elbows that have no visible seam. We have stock elbows that range in sizes from 1" O.D. to 3-1/2" O.D. and come in steel, stainless steel and aluminum.

Stainless 1-1/4" pipe, 1-1/2" pipe, and 1-1/2" O.D. tubing elbows are bent with pre-polished material and may require some touch-up. All other elbows are supplied with a mill finish. Stock products are available for same-day shipping if ordered before 2pm CST.

For all other materials, sizes, radii, and finishes, please call for a quote. Quantity Discounts available and special discounts available for Sharpe Thinkers members.

BENT 90° PIPE & TUBE ELBOWS

These mandrel bent elbows have no visible seam. Stainless 1-1/4" pipe, 1-1/2" pipe, and 1-1/2" O.D. tubing elbows are bent with pre-polished material and may require some touch-up. For additional sizes or radii call for a quote. Mandrel bent 35°, 45°, and 55° elbows are also available. For pricing on these elbows please call or visit our website at www.sharpeproducts.com.



Pipe: 6063 Alloy – Tube: 6061 Alloy

304 Alloy

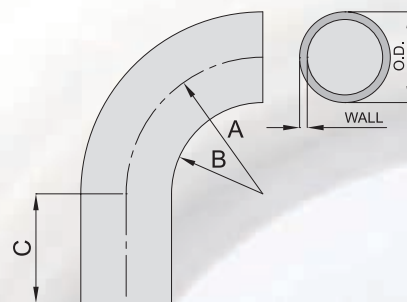
Pipe or Tube Outside Dia. (O.D.)	A= C.L.R.	B= I.R.	STEEL			ALUMINUM			STAINLESS		
			Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.
1"	2.50"	2"	.120" (11 Gage)	4125	0.37	.125"	5125	0.13	.065" (16 Gage)	6125	0.22
1"	3"	2.50"	.120" (11 Gage)	4135	0.44	.125"	5135	0.15	.065" (16 Gage)	6135	0.26
1.05" (3/4" Pipe)	1.50"	.98"	.113" (Sch 40)	205	0.22	.113" (Sch 40)	1205	0.08	.113" (Sch 40)	2205	0.22
1.05" (3/4" Pipe)	2"	1.475"	.113" (Sch 40)	215	0.30	.113" (Sch 40)	1215	0.10	.113" (Sch 40)	2215	0.30
1.05" (3/4" Pipe)	2.50"	1.975"	.113" (Sch 40)	225	0.37	.113" (Sch 40)	1225	0.13	.113" (Sch 40)	2225	0.37
1.05" (3/4" Pipe)	3"	2.475"	.113" (Sch 40)	235	0.44	.113" (Sch 40)	1235	0.15	.113" (Sch 40)	2235	0.45
1.25"	2.50"	1.875"	.120" (11 Gage)	4225	0.47	.125"	5225	0.17	.065" (16 Gage)	6225	0.27
1.25"	3"	2.375"	.120" (11 Gage)	4235	0.57	.125"	5235	0.20	.065" (16 Gage)	6235	0.33
1.25"	6"	5.375"	.120" (11 Gage)	4265	1.14	.125"	5265	0.39	.065" (16 Gage)	6265	0.66
1.315" (1" Pipe)	1.50"	.843"	.133" (Sch 40)	305	0.33	.133" (Sch 40)	1305	0.11	.133" (Sch 40)	2305	0.33
1.315" (1" Pipe)	2"	1.343"	.133" (Sch 40)	315	0.44	.133" (Sch 40)	1315	0.15	.133" (Sch 40)	2315	0.45
1.315" (1" Pipe)	2.50"	1.843"	.133" (Sch 40)	325	0.55	.133" (Sch 40)	1325	0.19	.133" (Sch 40)	2325	0.56
1.315" (1" Pipe)	3"	2.343"	.133" (Sch 40)	335	0.66	.133" (Sch 40)	1335	0.23	.133" (Sch 40)	2335	0.67
1.315" (1" Pipe)	4"	3.343"	.133" (Sch 40)	345	0.88	.133" (Sch 40)	1345	0.30	.133" (Sch 40)	2345	0.90
1.315" (1" Pipe)	5"	4.343"	.133" (Sch 40)	355	1.10	.133" (Sch 40)	1355	0.38	.133" (Sch 40)	2355	1.12
1.315" (1" Pipe)	6"	5.343"	.133" (Sch 40)	365	1.32	.133" (Sch 40)	1365	0.46	.133" (Sch 40)	2365	1.35
1.315" (1" Pipe)	7"	6.343"	.133" (Sch 40)	375	1.54	.133" (Sch 40)	1375	0.53	.133" (Sch 40)	2375	1.56
1.50"	2"	1.25"	.120" (11 Gage)	4315	0.46	.125"	5315	0.17	.120" (11 Gage)	6315-11	0.26
1.50"	2.50"	1.75"							.065" (16 Gage)	6325	0.33
1.50"	2.50"	1.75"	.120" (11 Gage)	4325	0.58	.125"	5325	0.20	.120" (11 Gage)	6325-11	0.59

Pipe: 6063 Alloy – Tube: 6061 Alloy

304 Alloy

Pipe or Tube O.D.	A = C.L.R.	B = I.R.	STEEL			ALUMINUM			STAINLESS		
			Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.
1.50"	2.75"	2"	.065" (16 Gage)	4825-16	0.36				.065" (16 Gage)	6825	0.36
1.50"	2.75"	2"	.120" (11 Gage)	4825	0.64	.125"	5825	0.23	.120" (11 Gage)	6825-11	0.64
1.50"	3"	2.25"	.120" (11 Gage)	4335	0.69	.125"	5335	0.23	.065" (16 Gage)	6335	0.40
1.50"	3"	2.25"							.065" (11 Gage)	6335-11	0.70
1.50"	4"	3.25"	.120" (11 Gage)	4345	0.93	.125"	5345	0.32	.065" (16 Gage)	6345	0.53
1.50"	5"	4.25"	.120" (11 Gage)	4355	1.16	.125"	5355	0.42	.065" (16 Gage)	6355	0.66
1.50"	6"	5.25"	.120" (11 Gage)	4365	1.39	.125"	5365	0.50	.065" (16 Gage)	6365	0.79
1.66" (1 1/4" Pipe)	2.00"	1.17"	.140" (Sch 40)	415	0.60	.140" (Sch 40)	1415	0.21	.140" (Sch 40)	2415	0.61
1.66" (1 1/4" Pipe)	2.50"	1.67"	.140" (Sch 40)	425	0.74	.140" (Sch 40)	1425	0.26	.140" (Sch 40)	2425	0.76
1.66" (1 1/4" Pipe)	3"	2.17"	.140" (Sch 40)	435	0.89	.140" (Sch 40)	1435	0.31	.140" (Sch 40)	2435	0.91
1.66" (1 1/4" Pipe)	4"	3.17"	.140" (Sch 40)	445	1.19	.140" (Sch 40)	1445	0.41	.140" (Sch 40)	2445	1.22
1.66" (1 1/4" Pipe)	5"	4.17"	.140" (Sch 40)	455	1.49	.140" (Sch 40)	1455	0.52	.140" (Sch 40)	2455	1.52
1.66" (1 1/4" Pipe)	6"	5.17"	.140" (Sch 40)	465	1.79	.140" (Sch 40)	1465	0.62	.140" (Sch 40)	2465	1.83
1.66" (1 1/4" Pipe)	7" **	6.17"	.140" (Sch 40)	475	2.08	.140" (Sch 40)	1475	0.72	.140" (Sch 40)	2475	2.11
1.66" (1 1/4" Pipe)	8" **	7.17"	.140" (Sch 40)	485	2.38	.140" (Sch 40)	1485	0.83	.140" (Sch 40)	2485	2.41
1.66" (1 1/4" Pipe)	9" **	8.17"	.140" (Sch 40)	495	2.68	.140" (Sch 40)	1495	0.93	.140" (Sch 40)	2495	2.71
1.66" (1 1/4" Pipe)	12" **	11.17"	.140" (Sch 40)	4-12-5	3.57	.140" (Sch 40)	14-12-5	0.92	.140" (Sch 40)	24-12-5	3.61
1.90" (1 1/2" Pipe)	2.50"	1.55"	.145" (Sch 40)	525	0.89	.145" (Sch 40)	1525	0.31	.145" (Sch 40)	2525	0.91
1.90" (1 1/2" Pipe)	3"	2.05"	.145" (Sch 40)	535	1.07	.145" (Sch 40)	1535	0.37	.145" (Sch 40)	2535	1.09
1.90" (1 1/2" Pipe)	4"	3.05"	.145" (Sch 40)	545	1.42	.145" (Sch 40)	1545	0.49	.145" (Sch 40)	2545	1.45
1.90" (1 1/2" Pipe)	5"	4.05"	.145" (Sch 40)	555	1.78	.145" (Sch 40)	1555	0.62	.145" (Sch 40)	2555	1.82
1.90" (1 1/2" Pipe)	6"	5.05"	.145" (Sch 40)	565	2.13	.145" (Sch 40)	1565	0.74	.145" (Sch 40)	2565	2.18
1.90" (1 1/2" Pipe)	7" **	6.05"	.145" (Sch 40)	575	2.49	.145" (Sch 40)	1575	0.87	.145" (Sch 40)	2575	2.52
1.90" (1 1/2" Pipe)	8" **	7.05"	.145" (Sch 40)	585	2.85	.145" (Sch 40)	1585	0.99	.145" (Sch 40)	2585	2.88
1.90" (1 1/2" Pipe)	9" **	8.05"	.145" (Sch 40)	595	3.20	.145" (Sch 40)	1595	1.11	.145" (Sch 40)	2595	3.24
1.90" (1 1/2" Pipe)	12" **	11.05"	.145" (Sch 40)	5-12-5	4.27	.145" (Sch 40)	15-12-5	1.48	.145" (Sch 40)	25-12-5	4.32
2"	3"	2"	.120" (11 Gage)	4535	0.95	.125"	5535	0.33	.120" (11 Gage)	6535	0.96
2"	4"	3"	.120" (11 Gage)	4545	1.26	.125"	5545	0.44	.120" (11 Gage)	6545	1.29
2"	5"	4"	.120" (11 Gage)	4555	1.58	.125"	5555	0.55	.120" (11 Gage)	6555	1.61
2"	6"	5"	.120" (11 Gage)	4565	1.89	.125"	5565	0.66	.120" (11 Gage)	6565	1.93
2.375" (2" Pipe)	3"	1.813"	.154" (Sch 40)	635	1.44	.154" (Sch 40)	1635	0.50	.154" (Sch 40)	2635	1.45
2.375" (2" Pipe)	4"	2.813"	.154" (Sch 40)	645	1.92	.154" (Sch 40)	1645	0.66	.154" (Sch 40)	2645	1.95
2.375" (2" Pipe)	5"	3.813"	.154" (Sch 40)	655	2.40	.154" (Sch 40)	1655	0.83	.154" (Sch 40)	2655	2.42
2.375" (2" Pipe)	6"	4.813"	.154" (Sch 40)	665	2.88	.154" (Sch 40)	1665	1.00	.154" (Sch 40)	2665	2.91
2.375" (2" Pipe)	12" **	10.813"	.154" (Sch 40)	6-12-5	5.74	.154" (Sch 40)	16-12-5	1.99	.154" (Sch 40)	26-12-5	5.81
2.50"	5"	3.75"	.120" (11 Gage)	4655	2.00	.125"	5655	0.69	.120" (11 Gage)	6655	2.04
2.875" (2 1/2" Pipe)	5"	3.563"	.203" (Sch 40)	755	3.79	.203" (Sch 40)	1755	1.31	.203" (Sch 40)	2755	3.87
3"	5"	3.50"	.120" (11 Gage)	4755	2.42	.125"	5755	0.84	.120" (11 Gage)	6755	2.47
3.50" (3" Pipe)	6"	4.25"	.120"	4865	3.40	.125"	5865	1.18	.120" (11 Gage)	6865	3.47

****PLEASE NOTE:** These elbows are considered a "made-to-order" item and are a NON-RETURNABLE/NON-REFUNDABLE part due to the processes used to produce them.



BENT 90° PIPE & TUBE ELBOWS WITH 1 TANGENT

These mandrel bent elbows have no visible seam. Stainless 1-1/4" pipe, 1-1/2" pipe, and 1-1/2" O.D. tubing elbows are bent with pre-polished material and may require some touch-up. Mandrel bent 35°, 45°, and 55° elbows are also available. For pricing on 35°, 45°, 55° elbows, and other additional sizes or radii please call for a quote.

Pipe: 6063 Alloy – Tube: 6061 Alloy

304 Alloy

Pipe or Tube Outside Dia. (O.D.)	A= C.L.R.	B= I.R.	C= Tangent	STEEL			ALUMINUM			STAINLESS		
				Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.
1"	2.50"	2"	2"	.120" (11 Gage)	4126	0.56	.125"	5126	0.19	.065" (16 Gage)	6126	0.33
1"	3"	2.50"	2"	.120" (11 Gage)	4136	0.63	.125"	5136	0.22	.065" (16 Gage)	6136	0.37
1.05" (3/4" Pipe)	1.50"	.98"	2"	.113" (Sch 40)	206	0.41	.113" (Sch 40)	1206	0.14	.113" (Sch 40)	2206	0.42
1.05" (3/4" Pipe)	2"	1.475"	2"	.113" (Sch 40)	216	0.48	.113" (Sch 40)	1216	0.17	.113" (Sch 40)	2216	0.49
1.05" (3/4" Pipe)	2.50"	1.975"	2"	.113" (Sch 40)	226	0.56	.113" (Sch 40)	1226	0.19	.113" (Sch 40)	2226	0.57
1.05" (3/4" Pipe)	3"	2.475"	2"	.113" (Sch 40)	236	0.63	.113" (Sch 40)	1236	0.22	.113" (Sch 40)	2236	0.64
1.25"	2.50"	1.875"	2"	.120" (11 Gage)	4226	0.72	.125"	5226	0.26	.065" (16 Gage)	6226	0.42
1.25"	3"	2.375"	2"	.120" (11 Gage)	4236	0.81	.125"	5236	0.28	.065" (16 Gage)	6236	0.47
1.25"	6"	5.375"	2"	.120" (11 Gage)	4266	1.38	.125"	5266	0.48	.065" (16 Gage)	6266	0.80
1.315" (1" Pipe)	1.50"	.843"	2"	.133" (Sch 40)	306	0.61	.133" (Sch 40)	1306	0.21	.133" (Sch 40)	2306	0.62
1.315" (1" Pipe)	2"	1.343"	2"	.133" (Sch 40)	316	0.72	.133" (Sch 40)	1316	0.25	.133" (Sch 40)	2316	0.73
1.315" (1" Pipe)	2.50"	1.843"	2"	.133" (Sch 40)	326	0.83	.133" (Sch 40)	1326	0.29	.133" (Sch 40)	2326	0.85
1.315" (1" Pipe)	3"	2.343"	2"	.133" (Sch 40)	336	0.94	.133" (Sch 40)	1336	0.33	.133" (Sch 40)	2336	0.96
1.315" (1" Pipe)	4"	3.343"	2"	.133" (Sch 40)	346	1.16	.133" (Sch 40)	1346	0.40	.133" (Sch 40)	2346	1.18
1.315" (1" Pipe)	5"	4.343"	2"	.133" (Sch 40)	356	1.38	.133" (Sch 40)	1356	0.48	.133" (Sch 40)	2356	1.41
1.315" (1" Pipe)	6"	5.343"	2"	.133" (Sch 40)	366	1.60	.133" (Sch 40)	1366	0.55	.133" (Sch 40)	2366	1.63
1.315" (1" Pipe)	7"***	6.343"	2"	.133" (Sch 40)	376	1.82	.133" (Sch 40)	1376	0.63	.133" (Sch 40)	2376	1.84
1.50"	2"	1.25"	2"	.120" (11 Gage)	4316	0.77	.125"	5316	0.27	.120" (11 Gage)	6316-11	0.43
1.50"	2.50"	1.75"	2"	.120" (11 Gage)	4326	0.88	.125"	5326	0.30	.120" (11 Gage)	6326-11	0.88
1.50"	2.50"	1.75"	2"							.065" (16 Gage)	6326	0.50
1.50"	2.75"	2"	2"	.120" (11 Gage)	4826	0.93	.125"	5826	0.34	.120" (11 Gage)	6826-11	0.94
1.50"	2.75"	2"	2"	.065" (16 Gage)	4826-16	0.53				.065" (16 Gage)	6826	0.53
1.50"	3"	2.25"	2"	.120" (11 Gage)	4336	0.99	.125"	5336	0.34	.065" (16 Gage)	6336	0.56
1.50"	3"	2.25"	2"							.065" (11 Gage)	6336-11	1.00
1.50"	4"	3.25"	2"	.120" (11 Gage)	4346	1.23	.125"	5346	0.42	.065" (16 Gage)	6346	0.70
1.50"	5"	4.25"	2"	.120" (11 Gage)	4356	1.45	.125"	5356	0.52	.065" (16 Gage)	6356	0.83
1.50"	6"	5.25"	2"	.120" (11 Gage)	4366	1.69	.125"	5366	0.61	.065" (16 Gage)	6366	0.96

BENT 90° ELBOWS – 1 TANGENT

Pipe: 6063 Alloy – Tube: 6061 Alloy

304 Alloy

Pipe or Tube Outside Dia. (O.D.)	A= C.L.R.	B= I.R.	C= Tangent	STEEL			ALUMINUM			STAINLESS		
				Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.
1.66" (1 1/4" Pipe)	2.50"	1.67"	2"	.140" (Sch 40)	426	1.13	.140" (Sch 40)	1426	0.39	.140" (Sch 40)	2426	1.15
1.66" (1 1/4" Pipe)	3"	2.17"	2"	.140" (Sch 40)	436	1.27	.140" (Sch 40)	1436	0.44	.140" (Sch 40)	2436	1.30
1.66" (1 1/4" Pipe)	4"	3.17"	2"	.140" (Sch 40)	446	1.57	.140" (Sch 40)	1446	0.54	.140" (Sch 40)	2446	1.60
1.66" (1 1/4" Pipe)	5"	4.17"	2"	.140" (Sch 40)	456	1.87	.140" (Sch 40)	1456	0.65	.140" (Sch 40)	2456	1.91
1.66" (1 1/4" Pipe)	6"	5.17"	2"	.140" (Sch 40)	466	2.17	.140" (Sch 40)	1466	0.75	.140" (Sch 40)	2466	2.21
1.66" (1 1/4" Pipe)	7"	6.17"	2"	.140" (Sch 40)	476	2.46	.140" (Sch 40)	1476	0.85	.140" (Sch 40)	2476	2.49
1.66" (1 1/4" Pipe)	8"	7.17"	2"	.140" (Sch 40)	486	2.76	.140" (Sch 40)	1486	0.96	.140" (Sch 40)	2486	2.79
1.66" (1 1/4" Pipe)	9"	8.17"	2"	.140" (Sch 40)	496	3.06	.140" (Sch 40)	1496	1.06	.140" (Sch 40)	2496	3.09
1.66" (1 1/4" Pipe)	12"	11.17"	2"	.140" (Sch 40)	4-12-6	3.95	.140" (Sch 40)	14-12-6	1.37	.140" (Sch 40)	24-12-6	4.00
1.90" (1 1/2" Pipe)	2.50"	1.55"	2"	.145" (Sch 40)	526	1.35	.145" (Sch 40)	1526	0.47	.145" (Sch 40)	2526	1.37
1.90" (1 1/2" Pipe)	3"	2.05"	2"	.145" (Sch 40)	536	1.52	.145" (Sch 40)	1536	0.53	.145" (Sch 40)	2536	1.55
1.90" (1 1/2" Pipe)	4"	3.05"	2"	.145" (Sch 40)	546	1.88	.145" (Sch 40)	1546	0.65	.145" (Sch 40)	2546	1.92
1.90" (1 1/2" Pipe)	5"	4.05"	2"	.145" (Sch 40)	556	2.24	.145" (Sch 40)	1556	0.77	.145" (Sch 40)	2556	2.28
1.90" (1 1/2" Pipe)	6"	5.05"	2"	.145" (Sch 40)	566	2.59	.145" (Sch 40)	1566	0.90	.145" (Sch 40)	2566	2.64
1.90" (1 1/2" Pipe)	7"	6.05"	2"	.145" (Sch 40)	576	2.94	.145" (Sch 40)	1576	1.02	.145" (Sch 40)	2576	2.98
1.90" (1 1/2" Pipe)	8"	7.05"	2"	.145" (Sch 40)	586	3.30	.145" (Sch 40)	1586	1.15	.145" (Sch 40)	2586	3.34
1.90" (1 1/2" Pipe)	9"	8.05"	2"	.145" (Sch 40)	596	3.66	.145" (Sch 40)	1596	1.27	.145" (Sch 40)	2596	3.70
1.90" (1 1/2" Pipe)	12"	11.05"	2"	.145" (Sch 40)	5-12-6	4.72	.145" (Sch 40)	15-12-6	1.64	.145" (Sch 40)	25-12-6	4.78
2"	3"	2"	2"	.120" (11 Gage)	4536	1.35	.125"	5536	0.47	.120" (11 Gage)	6536	1.38
2"	4"	3"	2"	.120" (11 Gage)	4546	1.66	.125"	5546	0.58	.120" (11 Gage)	6546	1.70
2"	5"	4"	2"	.120" (11 Gage)	4556	1.98	.125"	5556	0.69	.120" (11 Gage)	6556	2.02
2"	6"	5"	2"	.120" (11 Gage)	4566	2.30	.125"	5566	0.79	.120" (11 Gage)	6566	2.34
2.375" (2" Pipe)	3"	1.813"	5"	.154" (Sch 40)	636	2.96	.154" (Sch 40)	1636	1.03	.154" (Sch 40)	2636	2.99
2.375" (2" Pipe)	4"	2.813"	5"	.154" (Sch 40)	646	3.43	.154" (Sch 40)	1646	1.19	.154" (Sch 40)	2646	3.49
2.375" (2" Pipe)	5"	3.813"	5"	.154" (Sch 40)	656	3.92	.154" (Sch 40)	1656	1.36	.154" (Sch 40)	2656	3.96
2.375" (2" Pipe)	6"	4.813"	5"	.154" (Sch 40)	666	4.39	.154" (Sch 40)	1666	1.52	.154" (Sch 40)	2666	4.48
2.375" (2" Pipe)	12"	10.813"	5"	.154" (Sch 40)	6-12-6	7.28	.154" (Sch 40)	16-12-6	2.52	.154" (Sch 40)	26-12-6	7.35
2.50"	5"	3.75"	5"	.120" (11 Gage)	4656	3.27	.125"	5656	1.18	.120" (11 Gage)	6656	3.34
2.875" (2 1/2" Pipe)	5"	3.563"	5"	.203" (Sch 40)	756	6.21	.203" (Sch 40)	1756	2.15	.203" (Sch 40)	2756	6.33
3"	5"	3.50"	5"	.120" (11 Gage)	4756	3.95	.125"	5756	1.42	.120" (11 Gage)	6756	4.03
3.50" (3" Pipe)	6"	4.25"	5"	.120"	4866	5.21	.125"	5866	1.88	.120" (11 Gage)	6866	5.31

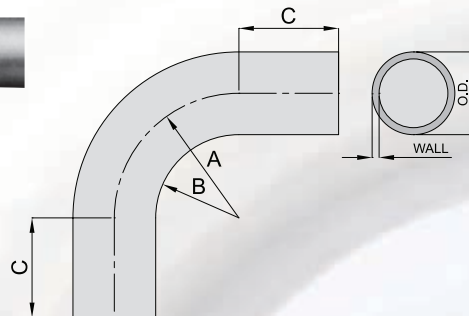
QUANTITY DISCOUNTS AVAILABLE

1-99 Total Pieces	List Price	100-499 Total Pieces	Less 10%
500-999 Total Pieces	Less 15%	1000 + Pieces	Less 20%

Quantity Discounts Not Available on Disks.
See Page 58 on How You Can Save an Additional 10% Discount by Becoming a "Sharpe Thinker"!

****PLEASE NOTE:** These elbows are considered a "made-to-order" item and are a NON-RETURNABLE/NON-REFUNDABLE part due to the processes used to produce them.

VISIT WWW.SHARPEPRODUCTS.COM FOR PRICING & ONLINE ORDERING



BENT 90° PIPE & TUBE ELBOWS WITH TANGENTS

These mandrel bent elbows have no visible seam. Stainless 1-1/4" pipe, 1-1/2" pipe, and 1-1/2" O.D. tubing elbows are bent with pre-polished material and may require some touch-up. Mandrel bent 35°, 45°, and 55° elbows are also available. For pricing on 35°, 45°, 55° elbows, and other additional sizes or radii please call for a quote.

Pipe: 6063 Alloy – Tube: 6061 Alloy

304 Alloy

Pipe Tube Outside Dia. (O.D.)	A= C.L.R.	B= I.R.	C= Tangent	STEEL			ALUMINUM			STAINLESS		
				Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.
1"	2.50"	2"	2"	.120" (11 Gage)	4127	0.75	.125"	5127	0.26	.065" (16 Gage)	6127	0.44
1"	3"	2.50"	2"	.120" (11 Gage)	4137	0.82	.125"	5137	0.28	.065" (16 Gage)	6137	0.48
1.05" (3/4" Pipe)	1.50"	.98"	2"	.113" (Sch 40)	207	0.65	.113" (Sch 40)	1207	0.21	.113" (Sch 40)	2207	0.61
1.05" (3/4" Pipe)	2"	1.475"	2"	.113" (Sch 40)	217	0.67	.113" (Sch 40)	1217	0.23	.113" (Sch 40)	2217	0.68
1.05" (3/4" Pipe)	2.50"	1.975"	2"	.113" (Sch 40)	227	0.75	.113" (Sch 40)	1227	0.26	.113" (Sch 40)	2227	0.76
1.05" (3/4" Pipe)	3"	2.475"	2"	.113" (Sch 40)	237	0.82	.113" (Sch 40)	1237	0.29	.113" (Sch 40)	2237	0.83
1.25"	2.50"	1.875"	2"	.120" (11 Gage)	4227	0.96	.125"	5227	0.33	.065" (16 Gage)	6227	0.56
1.25"	3"	2.375"	2"	.120" (11 Gage)	4237	1.06	.125"	5237	0.37	.065" (16 Gage)	6237	0.61
1.25"	6"	5.375"	2"	.120" (11 Gage)	4267	1.63	.125"	5267	0.56	.065" (16 Gage)	6267	0.94
1.315" (1" Pipe)	1.50"	.843"	2"	.133" (Sch 40)	307	0.89	.133" (Sch 40)	1307	0.31	.133" (Sch 40)	2307	0.90
1.315" (1" Pipe)	2"	1.343"	2"	.133" (Sch 40)	317	1.00	.133" (Sch 40)	1317	0.35	.133" (Sch 40)	2317	1.01
1.315" (1" Pipe)	2.50"	1.843"	2"	.133" (Sch 40)	327	1.11	.133" (Sch 40)	1327	0.38	.133" (Sch 40)	2327	1.13
1.315" (1" Pipe)	3"	2.343"	2"	.133" (Sch 40)	337	1.22	.133" (Sch 40)	1337	0.42	.133" (Sch 40)	2337	1.25
1.315" (1" Pipe)	4"	3.343"	2"	.133" (Sch 40)	347	1.44	.133" (Sch 40)	1347	0.50	.133" (Sch 40)	2347	1.47
1.315" (1" Pipe)	5"	4.343"	2"	.133" (Sch 40)	357	1.66	.133" (Sch 40)	1357	0.57	.133" (Sch 40)	2357	1.68
1.315" (1" Pipe)	6"	5.343"	2"	.133" (Sch 40)	367	1.88	.133" (Sch 40)	1367	0.65	.133" (Sch 40)	2367	1.92
1.315" (1" Pipe)	7" **	6.343"	2"	.133" (Sch 40)	377	2.10	.133" (Sch 40)	1377	0.73	.133" (Sch 40)	2377	2.12
1.50"	2"	1.25"	2"	.120" (11 Gage)	4317	1.05	.125"	5317	0.38	.120" (11 Gage)	6317-11	1.06
1.50"	2.50"	1.75"	2"	.120" (11 Gage)	4327	1.17	.125"	5327	0.41	.120" (11 Gage)	6327-11	1.11
1.50"	2.50"	1.75"	2"							.065" (16 Gage)	6327	0.67
1.50"	2.75"	2"	2"	.120" (11 Gage)	4827	1.23	.125"	5827	0.44	.120" (11 Gage)	6827-11	1.24
1.50"	2.75"	2"	2"	.065" (16 Gage)	4827-16	0.69				.065" (16 Gage)	6827	0.70
1.50"	3"	2.25"	2"	.120" (11 Gage)	4337	1.29	.125"	5337	0.45	.065" (16 Gage)	6337	0.73
1.50"	3"	2.25"	2"							.065" (11 Gage)	6337-11	1.30
1.50"	4"	3.25"	2"	.120" (11 Gage)	4347	1.52	.125"	5347	0.53	.065" (16 Gage)	6347	0.68
1.50"	5"	4.25"	2"	.120" (11 Gage)	4357	1.75	.125"	5357	0.63	.065" (16 Gage)	6357	0.99
1.50"	6"	5.25"	2"	.120" (11 Gage)	4367	1.98	.125"	5367	0.71	.065" (16 Gage)	6367	1.13

BENT 90° ELBOWS – TANGENTS

Pipe: 6063 Alloy – Tube: 6061 Alloy

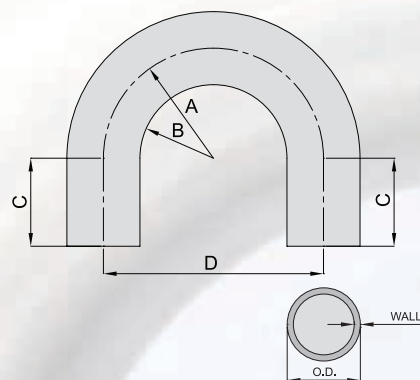
304 Alloy

Pipe or Tube Outside Dia. (O.D.)	A= C.L.R.	B= I.R.	C= Tangent	STEEL			ALUMINUM			STAINLESS		
				Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.
1.66" (1 1/4" Pipe)	2"	1.17"	2"	.140" (Sch 40)	417	1.35	.140" (Sch 40)	1417	0.47	.140" (Sch 40)	2417	1.37
1.66" (1 1/4" Pipe)	2.50"	1.67"	2"	.140" (Sch 40)	427	1.51	.140" (Sch 40)	1427	0.52	.140" (Sch 40)	2427	1.54
1.66" (1 1/4" Pipe)	3"	2.17"	2"	.140" (Sch 40)	437	1.66	.140" (Sch 40)	1437	0.57	.140" (Sch 40)	2437	1.69
1.66" (1 1/4" Pipe)	4"	3.17"	2"	.140" (Sch 40)	447	1.96	.140" (Sch 40)	1447	0.68	.140" (Sch 40)	2447	1.99
1.66" (1 1/4" Pipe)	5"	4.17"	2"	.140" (Sch 40)	457	2.25	.140" (Sch 40)	1457	0.78	.140" (Sch 40)	2457	2.30
1.66" (1 1/4" Pipe)	6"	5.17"	2"	.140" (Sch 40)	467	2.55	.140" (Sch 40)	1467	0.88	.140" (Sch 40)	2467	2.60
1.66" (1 1/4" Pipe)	7"	6.17"	2"	.140" (Sch 40)	477	2.84	.140" (Sch 40)	1477	0.99	.140" (Sch 40)	2477	2.87
1.66" (1 1/4" Pipe)	8"	7.17"	2"	.140" (Sch 40)	487	3.14	.140" (Sch 40)	1487	1.09	.140" (Sch 40)	2487	3.17
1.66" (1 1/4" Pipe)	9"	8.17"	2"	.140" (Sch 40)	497	3.44	.140" (Sch 40)	1497	1.19	.140" (Sch 40)	2497	3.48
1.66" (1 1/4" Pipe)	12"	11.17"	2"	.140" (Sch 40)	4-12-7	4.33	.140" (Sch 40)	14-12-7	1.50	.140" (Sch 40)	24-12-7	4.38
1.90" (1 1/2" Pipe)	2"	1.05"	2"	.145" (Sch 40)	517	1.62	.145" (Sch 40)	1517	0.56	.145" (Sch 40)	2517	1.64
1.90" (1 1/2" Pipe)	2.50"	1.55"	2"	.145" (Sch 40)	527	1.80	.145" (Sch 40)	1527	0.62	.145" (Sch 40)	2527	1.84
1.90" (1 1/2" Pipe)	3"	2.05"	2"	.145" (Sch 40)	537	1.98	.145" (Sch 40)	1537	0.68	.145" (Sch 40)	2537	2.02
1.90" (1 1/2" Pipe)	4"	3.05"	2"	.145" (Sch 40)	547	2.34	.145" (Sch 40)	1547	0.81	.145" (Sch 40)	2547	2.38
1.90" (1 1/2" Pipe)	5"	4.05"	2"	.145" (Sch 40)	557	2.69	.145" (Sch 40)	1557	0.93	.145" (Sch 40)	2557	2.75
1.90" (1 1/2" Pipe)	6"	5.05"	2"	.145" (Sch 40)	567	3.05	.145" (Sch 40)	1567	1.06	.145" (Sch 40)	2567	3.11
1.90" (1 1/2" Pipe)	7"	6.05"	2"	.145" (Sch 40)	577	3.40	.145" (Sch 40)	1577	1.18	.145" (Sch 40)	2577	3.44
1.90" (1 1/2" Pipe)	8"	7.05"	2"	.145" (Sch 40)	587	3.75	.145" (Sch 40)	1587	1.30	.145" (Sch 40)	2587	3.80
1.90" (1 1/2" Pipe)	9"	8.05"	2"	.145" (Sch 40)	597	4.12	.145" (Sch 40)	1597	1.43	.145" (Sch 40)	2597	4.16
1.90" (1 1/2" Pipe)	12"	11.05"	2"	.145" (Sch 40)	5-12-7	5.18	.145" (Sch 40)	15-12-7	1.80	.145" (Sch 40)	25-12-7	5.24
2"	3"	2"	2"	.120" (11 Gage)	4537	1.75	.125"	5537	0.61	.120" (11 Gage)	6537	1.79
2"	4"	3"	2"	.120" (11 Gage)	4547	2.07	.125"	5547	0.72	.120" (11 Gage)	6547	2.11
2"	5"	4"	2"	.120" (11 Gage)	4557	2.38	.125"	5557	0.82	.120" (11 Gage)	6557	2.43
2"	6"	5"	2"	.120" (11 Gage)	4567	2.70	.125"	5567	0.93	.120" (11 Gage)	6567	2.75
2.375" (2" Pipe)	3"	1.813"	5"	.154" (Sch 40)	637	4.48	.154" (Sch 40)	1637	1.55	.154" (Sch 40)	2637	4.53
2.375" (2" Pipe)	4"	2.813"	5"	.154" (Sch 40)	647	4.96	.154" (Sch 40)	1647	1.72	.154" (Sch 40)	2647	5.06
2.375" (2" Pipe)	5"	3.813"	5"	.154" (Sch 40)	657	5.44	.154" (Sch 40)	1657	1.89	.154" (Sch 40)	2657	5.50
2.375" (2" Pipe)	6"	4.813"	5"	.154" (Sch 40)	667	5.91	.154" (Sch 40)	1667	2.05	.154" (Sch 40)	2667	6.03
2.375" (2" Pipe)	12"	10.813"	5"	.154" (Sch 40)	6-12-7	8.80	.154" (Sch 40)	16-12-7	3.05	.154" (Sch 40)	26-12-7	8.88
2.50"	5"	3.75"	5"	.120" (11 Gage)	4657	4.45	.125"	5657	1.63	.120" (11 Gage)	6657	4.63
2.875" (2 1/2" Pipe)	5"	3.563"	5"	.203" (Sch 40)	757	8.62	.203" (Sch 40)	1757	2.99	.203" (Sch 40)	2757	8.79
3"	5"	3.50"	5"	.120" (11 Gage)	4757	5.49	.125"	5757	1.98	.120" (11 Gage)	6757	5.60
3.50" (3" Pipe)	6"	4.25"	5"	.120"	4867	7.01	.125"	5867	2.53	.120" (11 Gage)	6867	7.15

NEED A CUSTOM BEND MADE?
NO PROBLEM! SEE OUR CUSTOM BENDING
SERVICES STARTING ON PAGE 48!

****PLEASE NOTE:** These elbows are considered a "made-to-order" item and are a NON-RETURNABLE/NON-REFUNDABLE part due to the processes used to produce them.

VISIT WWW.SHARPEPRODUCTS.COM FOR PRICING & ONLINE ORDERING



BENT 180° PIPE & TUBE ELBOWS

These mandrel bent elbows have no visible seam. Stainless 1-1/4" pipe, 1-1/2" pipe, and 1-1/2" O.D. tubing elbows are bent with pre-polished material and may require some touch-up. Mandrel bent 125°, 135°, and 145° elbows are also available. For pricing on 125°, 135°, 145° elbows, and other additional sizes or radii please call for a quote or visit our website at www.sharpeproducts.com.

Pipe: 6063 Alloy – Tube: 6061 Alloy

304 Alloy

Pipe or Tube Outside Dia. (O.D.)	A= C.L.R.	B= I.R.	C= Tangent	D= C.L.D.	STEEL			ALUMINUM			STAINLESS		
					Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.
1"	2.50"	2"	2"	5"	.120" (11 Gage)	4128	1.11	.125"	5128	0.39	.065" (16 Gage)	6128	0.65
1"	3"	2.50"	2"	6"	.120" (11 Gage)	4138	1.26	.125"	5138	0.44	.065" (16 Gage)	6138	0.74
1.05" (3/4" Pipe)	1.50"	.98"	2"	3"	.113" (Sch 40)	208	0.60	.113" (Sch 40)	1208	0.29	.113" (Sch 40)	2208	0.83
1.05" (3/4" Pipe)	2"	1.475"	2"	4"	.113" (Sch 40)	218	0.97	.113" (Sch 40)	1218	0.34	.113" (Sch 40)	2218	0.98
1.05" (3/4" Pipe)	2.50"	1.975"	2"	5"	.113" (Sch 40)	228	1.15	.113" (Sch 40)	1228	0.39	.113" (Sch 40)	2228	1.13
1.05" (3/4" Pipe)	3"	2.475"	2"	6"	.113" (Sch 40)	238	1.26	.113" (Sch 40)	1238	0.44	.113" (Sch 40)	2238	1.28
1.25"	2.50"	1.875"	2"	5"	.120" (11 Gage)	4228	1.44	.125"	5228	0.50	.065" (16 Gage)	6228	0.83
1.25"	3"	2.375"	2"	6"	.120" (11 Gage)	4238	1.63	.125"	5238	0.56	.065" (16 Gage)	6238	0.94
1.25"	6"	5.375"	2"	12"	.120" (11 Gage)	4268	2.76	.125"	5268	0.96	.065" (16 Gage)	6268	1.60
1.315" (1" Pipe)	1.50"	.843"	2"	3"	.133" (Sch 40)	308	0.66	.133" (Sch 40)	1308	0.42	.133" (Sch 40)	2308	1.23
1.315" (1" Pipe)	2"	1.343"	2"	4"	.133" (Sch 40)	318	1.44	.133" (Sch 40)	1318	0.50	.133" (Sch 40)	2318	1.46
1.315" (1" Pipe)	2.50"	1.843"	2"	5"	.133" (Sch 40)	328	1.66	.133" (Sch 40)	1328	0.57	.133" (Sch 40)	2328	1.69
1.315" (1" Pipe)	3"	2.343"	2"	6"	.133" (Sch 40)	338	1.88	.133" (Sch 40)	1338	0.65	.133" (Sch 40)	2338	1.92
1.315" (1" Pipe)	4"	3.343"	2"	8"	.133" (Sch 40)	348	2.32	.133" (Sch 40)	1348	0.80	.133" (Sch 40)	2348	2.37
1.315" (1" Pipe)	5"	4.343"	2"	10"	.133" (Sch 40)	358	2.76	.133" (Sch 40)	1358	0.95	.133" (Sch 40)	2358	2.81
1.315" (1" Pipe)	6"	5.343"	2"	12"	.133" (Sch 40)	368	3.20	.133" (Sch 40)	1368	1.11	.133" (Sch 40)	2368	3.25
1.315" (1" Pipe)	7" **	6.343"	2"	14"	.133" (Sch 40)	378	3.64	.133" (Sch 40)	1378	1.26	.133" (Sch 40)	2378	3.68
1.50"	2"	1.25"	2"	4"	.120" (11 Gage)	4318	1.52	.125"	5318	0.55	.120" (11 Gage)	6318-11	1.13
1.50"	2.50"	1.75"	2"	5"	.120" (11 Gage)	4328	1.76	.125"	5328	0.61	.120" (11 Gage)	6328-11	1.77
1.50"	2.50"	1.75"	2"	5"							.065" (16 Gage)	6328	1.00
1.50"	2.75"	2"	2"	5.5"	.120" (11 Gage)	4828	1.87	.125"	5828	0.67	.120" (11 Gage)	6828-11	1.88
1.50"	2.75"	2"	2"	5.5"	.065" (16 Gage)	4828-16	1.06				.065" (16 Gage)	6828	1.06
1.50"	3"	2.25"	2"	6"	.120" (11 Gage)	4338	1.99	.125"	5338	0.69	.065" (16 Gage)	6338	1.13
1.50"	3"	2.25"	2"	6"							.065" (11 Gage)	6338-11	2.00
1.50"	4"	3.25"	2"	8"	.120" (11 Gage)	4348	2.45	.125"	5348	0.85	.065" (16 Gage)	6348	1.39
1.50"	5"	4.25"	2"	8"	.120" (11 Gage)	4358	2.91	.125"	5358	1.04	.065" (16 Gage)	6358	1.65
1.50"	6"	5.25"	2"	12"	.120" (11 Gage)	4368	3.38	.125"	5368	1.21	.065" (16 Gage)	6368	1.92

Pipe: 6063 Alloy – Tube: 6061 Alloy

304 Alloy

Pipe or Tube Outside Dia. (O.D.)	A= C.L.R.	B= I.R.	C= Tangent	D= C.L.D.	STEEL			ALUMINUM			STAINLESS		
					Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.	Wall Thickness	Part No.	Wt. Ea.
1.66" (1 1/4" Pipe)	2"	1.17"	2"	4"	.140" (Sch 40)	418	1.95	.140" (Sch 40)	1418	0.68	.140" (Sch 40)	2418	1.97
1.66" (1 1/4" Pipe)	2.50"	1.67"	2"	5"	.140" (Sch 40)	428	2.25	.140" (Sch 40)	1428	0.78	.140" (Sch 40)	2428	2.30
1.66" (1 1/4" Pipe)	3"	2.17"	2"	6"	.140" (Sch 40)	438	2.55	.140" (Sch 40)	1438	0.88	.140" (Sch 40)	2438	2.60
1.66" (1 1/4" Pipe)	4"	3.17"	2"	8"	.140" (Sch 40)	448	3.15	.140" (Sch 40)	1448	1.09	.140" (Sch 40)	2448	3.21
1.66" (1 1/4" Pipe)	5"	4.17"	2"	10"	.140" (Sch 40)	458	3.74	.140" (Sch 40)	1458	1.30	.140" (Sch 40)	2458	3.77
1.66" (1 1/4" Pipe)	6"	5.17"	2"	12"	.140" (Sch 40)	468	4.34	.140" (Sch 40)	1468	1.50	.140" (Sch 40)	2468	4.43
1.66" (1 1/4" Pipe)	7" **	6.17"	2"	14"	.140" (Sch 40)	478	4.92	.140" (Sch 40)	1478	1.71	.140" (Sch 40)	2478	4.98
1.66" (1 1/4" Pipe)	8" **	7.17"	2"	16"	.140" (Sch 40)	488	5.52	.140" (Sch 40)	1488	1.92	.140" (Sch 40)	2488	5.58
1.66" (1 1/4" Pipe)	9" **	8.17"	2"	18"	.140" (Sch 40)	498	6.12	.140" (Sch 40)	1498	2.12	.140" (Sch 40)	2498	6.19
1.66" (1 1/4" Pipe)	12" **	11.17"	2"	24"	.140" (Sch 40)	4-12-8	7.90	.140" (Sch 40)	14-12-8	2.74	.140" (Sch 40)	24-12-8	7.99
1.90" (1 1/2" Pipe)	2"	1.05"	2"	4"	.145" (Sch 40)	518	2.33	.145" (Sch 40)	1518	0.81	.145" (Sch 40)	2518	2.36
1.90" (1 1/2" Pipe)	2.50"	1.55"	2"	5"	.145" (Sch 40)	528	2.69	.145" (Sch 40)	1528	0.93	.145" (Sch 40)	2528	2.76
1.90" (1 1/2" Pipe)	3"	2.05"	2"	6"	.145" (Sch 40)	538	3.05	.145" (Sch 40)	1538	1.05	.145" (Sch 40)	2538	3.11
1.90" (1 1/2" Pipe)	4"	3.05"	2"	8"	.145" (Sch 40)	548	3.75	.145" (Sch 40)	1548	1.30	.145" (Sch 40)	2548	3.84
1.90" (1 1/2" Pipe)	5"	4.05"	2"	10"	.145" (Sch 40)	558	4.47	.145" (Sch 40)	1558	1.55	.145" (Sch 40)	2558	4.56
1.90" (1 1/2" Pipe)	6"	5.05"	2"	12"	.145" (Sch 40)	568	5.19	.145" (Sch 40)	1568	1.79	.145" (Sch 40)	2568	5.29
1.90" (1 1/2" Pipe)	7" **	6.05"	2"	14"	.145" (Sch 40)	578	5.90	.145" (Sch 40)	1578	2.04	.145" (Sch 40)	2578	5.96
1.90" (1 1/2" Pipe)	8" **	7.05"	2"	16"	.145" (Sch 40)	588	6.60	.145" (Sch 40)	1588	2.29	.145" (Sch 40)	2588	6.68
1.90" (1 1/2" Pipe)	9" **	8.05"	2"	18"	.145" (Sch 40)	598	7.32	.145" (Sch 40)	1598	2.54	.145" (Sch 40)	2598	7.40
1.90" (1 1/2" Pipe)	12" **	11.05"	2"	24"	.145" (Sch 40)	5-12-8	9.44	.145" (Sch 40)	15-12-8	3.28	.145" (Sch 40)	25-12-8	9.56
2"	3"	2"	2"	6"	.120" (11 Gage)	4538	2.70	.125"	5538	0.93	.120" (11 Gage)	6538	2.75
2"	4"	3"	2"	8"	.120" (11 Gage)	4548	3.33	.125"	5548	1.15	.120" (11 Gage)	6548	3.40
2"	5"	4"	2"	10"	.120" (11 Gage)	4558	3.96	.125"	5558	1.37	.120" (11 Gage)	6558	4.04
2"	6"	5"	2"	12"	.120" (11 Gage)	4568	4.59	.125"	5568	1.59	.120" (11 Gage)	6568	4.68
2.375" (2" Pipe)	3"	1.813"	5"	6"	.154" (Sch 40)	638	5.92	.154" (Sch 40)	1638	2.05	.154" (Sch 40)	2638	5.98
2.375" (2" Pipe)	4"	2.813"	5"	8"	.154" (Sch 40)	648	6.87	.154" (Sch 40)	1648	2.38	.154" (Sch 40)	2648	7.01
2.375" (2" Pipe)	5"	3.813"	5"	10"	.154" (Sch 40)	658	7.84	.154" (Sch 40)	1658	2.72	.154" (Sch 40)	2658	7.92
2.375" (2" Pipe)	6"	4.813"	5"	12"	.154" (Sch 40)	668	8.78	.154" (Sch 40)	1668	3.04	.154" (Sch 40)	2668	8.96
2.375" (2" Pipe)	12" **	10.813"	5"	24"	.154" (Sch 40)	6-12-8	14.55	.154" (Sch 40)	16-12-8	5.04	.154" (Sch 40)	26-12-8	14.69
2.50"	5"	3.75"	5"	10"	.120" (11 Gage)	4658	6.53	.125"	5658	2.35	.120" (11 Gage)	6658	6.66
2.875" (2 1/2" Pipe)	5"	3.563"	5"	10"	.203" (Sch 40)	758	12.41	.203" (Sch 40)	1758	4.30	.203" (Sch 40)	2758	12.66
3"	5"	3.50"	5"	10"	.120" (11 Gage)	4758	7.90	.125"	5758	2.85	.120" (11 Gage)	6758	8.06
3.50" (3" Pipe)	6"	4.25"	5"	12"	.120"	4868	10.41	.125"	5868	3.75	.120" (11 Gage)	6868	10.62

THINK SHARPE AND SAVE!
BECOME A "SHARPE THINKER" MEMBER!

Join the Sharpe Thinkers Club and you will receive an **ADDITIONAL 10% Discount** on all stock orders, regardless of quantity.

See Page 58 on how you can save an **ADDITIONAL 10% Discount** by Becoming a "Sharpe Thinker"!

****PLEASE NOTE:** These elbows are considered a "made-to-order" item and are a **NON-RETURNABLE/NON-REFUNDABLE** part due to the processes used to produce them.

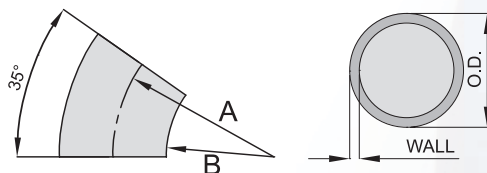
VISIT WWW.SHARPEPRODUCTS.COM FOR PRICING & ONLINE ORDERING



MISC. DEGREE ELBOWS

The 35°, 45°, and 55° elbows listed below have a seam. We also offer mandrel bent 35°, 45°, and 55° elbows, which are seamless. Call for pricing and availability for seamless elbows or visit our website at www.sharpeproducts.com.

ECONOMY FORMED 35° ELBOWS

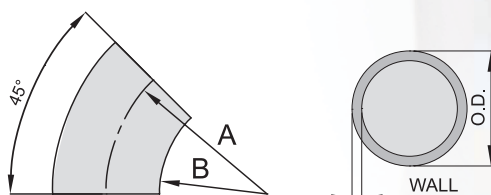


WALL THICKNESS		
STEEL	ALUMINUM	STAINLESS
10 Gage	.132"	11 Gage

		3003 Alloy		304 Alloy	
Pipe or Tube Dia. (O.D.)	A=C.L.R. B=I.R.	STEEL	ALUMINUM	STAINLESS	
		Part No.	Wt. Ea.	Part No.	Wt. Ea.
1.315" (1" Pipe)	1.658" 1"	E315-35	0.14	E31535-AL	0.05
1.315" (1" Pipe)	2.658" 2"	E335-35	0.23	E33535-AL	0.07
1.50"*	2.25" 1.50"	E4315-35	0.20	E431535-AL	0.07
1.66" (1 1/4" Pipe)	1.83" 1"	E415-35	0.21	E41535-AL	0.07
1.66" (1 1/4" Pipe)	2.455" 1.625"	E425-35	0.30	E42535-AL	0.10
1.66" (1 1/4" Pipe)	2.83" 2"	E435-35	0.34	E43535-AL	0.12
1.66" (1 1/4" Pipe)	3.83" 3"	E445-35	0.44	E44535-AL	0.15
1.90" (1 1/2" Pipe)	1.95" 1"	E515-35	0.24	E51535-AL	0.08
1.90" (1 1/2" Pipe)	2.25" 1.30"	RE505-35	0.29	RE50535-AL	0.10
1.90" (1 1/2" Pipe)	2.575" 1.625"	E525-35	0.33	E52535-AL	0.12
1.90" (1 1/2" Pipe)	2.95" 2"	E535-35	0.39	E53535-AL	0.14
2.375" (2" Pipe)	3" 1.813"	E635-35	0.49	E63535-AL	0.17

*Denotes: 1-1/2" Tube Elbows have a wall thickness of .125".

ECONOMY FORMED 45° ELBOWS



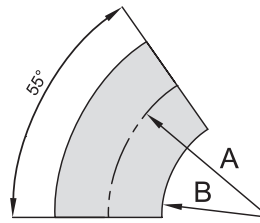
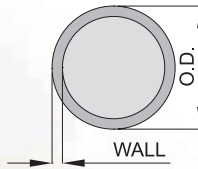
WALL THICKNESS		
STEEL	ALUMINUM	STAINLESS
10 Gage	.132"	11 Gage

		3003 Alloy		304 Alloy	
Pipe or Tube Dia. (O.D.)	A=C.L.R. B=I.R.	STEEL	ALUMINUM	STAINLESS	
		Part No.	Wt. Ea.	Part No.	Wt. Ea.
1.315" (1" Pipe)	1.658" 1"	E315-45	0.18	E31545-AL	0.06
1.315" (1" Pipe)	2.658" 2"	E335-45	0.29	E33545-AL	0.10
1.50"*	2.25" 1.50"	E4315-45	0.26	E431545-AL	0.09
1.66" (1 1/4" Pipe)	1.83" 1"	E415-45	0.27	E41545-AL	0.09
1.66" (1 1/4" Pipe)	2.455" 1.625"	E425-45	0.38	E42545-AL	0.13
1.66" (1 1/4" Pipe)	2.83" 2"	E435-45	0.44	E43545-AL	0.15
1.66" (1 1/4" Pipe)	3.83" 3"	E445-45	0.56	E44545-AL	0.19
1.90" (1 1/2" Pipe)	1.95" 1"	E515-45	0.31	E51545-AL	0.11
1.90" (1 1/2" Pipe)	2.25" 1.30"	RE505-45	0.37	RE50545-AL	0.13
1.90" (1 1/2" Pipe)	2.575" 1.625"	E525-45	0.43	E52545-AL	0.15
1.90" (1 1/2" Pipe)	2.95" 2"	E535-45	0.50	E53545-AL	0.18
2.375" (2" Pipe)	3" 1.813"	E635-45	0.63	E63545-AL	0.22

*Denotes: 1-1/2" Tube Elbows have a wall thickness of .125".

ECONOMY FORMED 55° ELBOWS

WALL THICKNESS		
STEEL	ALUMINUM	STAINLESS
10 Gage	.132"	11 Gage

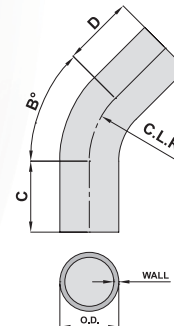


Pipe or Tube Dia. (O.D.)	A=C.L.R.	B=I.R.	STEEL		3003 Alloy ALUMINUM		304 Alloy STAINLESS	
			Part No.	Wt. Ea.	Part No.	Wt. Ea.	Part No.	Wt. Ea.
1.315" (1" Pipe)	1.658"	1"	E315-55	0.21	E31555-AL	0.08		
1.315" (1" Pipe)	2.658"	2"	E335-55	0.35	E33555-AL	0.12		
1.50"*	2.25"	1.50"	E4315-55	0.32	E431555-AL	0.11		
1.66" (1 1/4" Pipe)	1.83"	1"	E415-55	0.32	E41555-AL	0.11	E41555-SS	0.33
1.66" (1 1/4" Pipe)	2.455"	1.625"	E425-55	0.46	E42555-AL	0.16		
1.66" (1 1/4" Pipe)	2.83"	2"	E435-55	0.54	E43555-AL	0.18		
1.66" (1 1/4" Pipe)	3.83"	3"	E445-55	0.68	E44555-AL	0.23		
1.90" (1 1/2" Pipe)	1.95"	1"	E515-55	0.38	E51555-AL	0.13		
1.90" (1 1/2" Pipe)	2.25"	1.30"	RE505-55	0.45	RE50555-AL	0.16	RE50555-SS	0.46
1.90" (1 1/2" Pipe)	2.575"	1.625"	E525-55	0.53	E52555-AL	0.18		
1.90" (1 1/2" Pipe)	2.95"	2"	E535-55	0.61	E53555-AL	0.21		
2.375" (2" Pipe)	3"	1.813"	E635-55	0.76	E63555-AL	0.26	E63555-SS	0.79

*Denotes: 1-1/2" Tube Elbows have a wall thickness of .125".

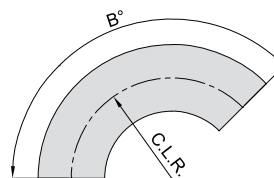
35°, 45°, AND 55° ELBOWS WITH TANGENTS**

These elbows are custom made and are quoted on a per project basis. When requesting a quote please specify the pipe or tube size, center line radius, degree of bend, and tangent dimensions. Please reference the drawing below. Choosing a centerline radius from our tooling list on page 52 will simplify your design process.



125°, 135°, AND 145° BENT ELBOWS**

These elbows are cut from our stock 180° bent elbows and can be shipped same-day. When ordering or requesting a quote for these elbows please reference the degree of elbow required with the correlating 180° elbow part number from pages 12 and 13 or on our website. These elbows can also be custom bent with tangents. Please call for pricing or to request a quote.

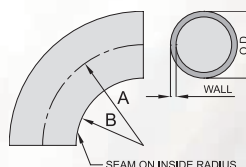


****PLEASE NOTE:** These elbows are considered a "made-to-order" item and are a NON-RETURNABLE/NON-REFUNDABLE part due to the processes used to produce them.



ECONOMY FORMED ELBOWS

These economically priced elbows are some of our best sellers! They are formed out of 10 gage steel, .125" aluminum, and 11 gage stainless steel, and have a seam.

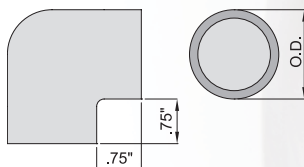


WALL THICKNESS		
STEEL	ALUMINUM	STAINLESS
10 Gage	.132"	11 Gage

Pipe or Tube Diameter (O.D.)	A=C.L.R.	B=I.R.	3003 Alloy		304 Alloy	
			STEEL	ALUMINUM	STAINLESS	
			Part No.	Wt. Ea.	Part No.	Wt. Ea.
1.315" (1" Pipe)	1.658"	1"	E315	0.35	E315-AL	0.13
1.315" (1" Pipe)	2.658"	2"	E335	0.58	E335-AL	0.19
1.50"*	2.25"	1.50"	E4315	0.52	E4315-AL	0.18
1.66" (1 1/4" Pipe)	1.83"	1"	E415	0.53	E415-AL	0.18
1.66" (1 1/4" Pipe)	2.455"	1.625"	E425	0.76	E425-AL	0.26
1.66" (1 1/4" Pipe)	2.83"	2"	E435	0.88	E435-AL	0.30
1.66" (1 1/4" Pipe)	3.83"	3"	E445	1.12	E445-AL	0.38
1.90" (1 1/2" Pipe)	1.95"	1"	E515	0.62	E515-AL	0.21
1.90" (1 1/2" Pipe)	2.25"	1.30"	RE505	0.74	RE505-AL	0.26
1.90" (1 1/2" Pipe)	2.575"	1.625"	E525	0.86	E525-AL	0.30
1.90" (1 1/2" Pipe)	2.95"	2"	E535	1.00	E535-AL	0.35
2.375" (2" Pipe)	3"	1.813"	E635	1.25	E635-AL	0.43
					E635-SS	1.28

*Denotes: 1-1/2" Tube Elbows have a wall thickness of .125".

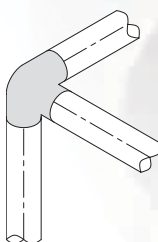
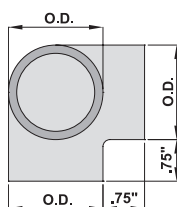
1/8" RADIUS ELBOW



WALL THICKNESS		
STEEL	ALUMINUM	STAINLESS
10 Gage	.132"	11 Gage

Pipe or Tube Diameter (O.D.)	Inside Radius	3003 Alloy		304 Alloy	
		STEEL	ALUMINUM	STAINLESS	
		Part No.	Wt. Ea.	Part No.	Wt. Ea.
1.66" (1 1/4" Pipe)	.125"	E405	0.60	E405-AL	0.25
1.90" (1 1/2" Pipe)	.125"	E505	0.80	E505-AL	0.30
				E505-SS	0.82

SIDE OUTLET ELBOWS



Pipe or Tube Diameter (O.D.)	Wall Thickness	3003 Alloy		304 Alloy	
		STEEL	ALUMINUM	STAINLESS	
		Part No.	Wt. Ea.	Part No.	Wt. Ea.
1.50"	.120" (11 Gage)	SOE150*	0.58	SOE150-AL	0.59
1.66" (1 1/4" Pipe)	.134" (10 Gage)	SOE166	0.70	SOE166-AL	0.71
1.90" (1 1/2" Pipe)	.134" (10 Gage)	SOE190	1.10	SOE190-AL	1.00
				SOE190-SS	1.00

*Denotes: cast elbow with no seam.