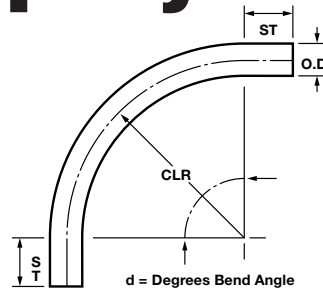


Morris Coupling Company

Tube Bending Capabilities

Pipe and tube bends of up to 180 degrees are readily available in aluminum, stainless, carbon steel and galvanized in the sizes listed below. Other centerline radii are available but not shown. Special shapes, "U" bends, offsets, and bifurcated bends available upon request. Morris tube bends are shipped from our Knoxville, Tennessee plant.



For PNEUMATIC SYSTEMS ... Short and Long Radius

TUBE SIZE	PIPE SIZE	OUTSIDE DIAMETER		COMMON CENTERLINE RADII (CLR) INCHES	STD. TANGENT (ST)
		INCHES	MILLIMETERS		
1"		1.0	25.4	3, 6, 12	4"
	1"	1.315	33.4	3, 5	4"
1-1/4"		1.25	31.8	3, 7.25	4"
	1-1/4"	1.660	42.2	6.25	4"
1-1/2"		1.5	38.1	2.5, 6, 7.5, 9, 12, 18, 24, 30, 36	4"
1-3/4"		1.75	44.5	2.5, 8, 9, 15, 24, 30, 36, 48	4"
	1-1/2"	1.9	48.3	5, 6, 7.5, 9, 10, 12, 18, 24, 30, 36, 48	4"
2"		2.0	50.8	2.5, 3, 3.5, 4, 5, 6, 8.5, 9, 10, 12, 18, 24, 30, 36, 48	4"
2-1/8"		2.125	54.0	3, 5, 12, 24, 30, 36	4-1/4"
2-1/4"		2.25	57.2	3, 9, 12, 15, 17, 24, 30, 36	4-1/2"
	2"	2.375	60.2	6, 7.5, 10, 12, 17, 24, 30, 36, 48	4"
2-1/2"		2.5	63.5	4, 6, 9, 12, 15, 17, 24, 30, 36, 48	5"
2-3/4"		2.75	69.9	2.75, 4, 17, 30, 36, 48	5-1/2"
	2-1/2"	2.875	73.0	12.5, 17, 24, 30, 36, 60*	5" *18"
3"		3.0	76.2	4, 4.5, 7.5, 9, 10, 12, 15, 18, 24, 30, 36, 48, 60*	6" *18"
3-1/4"		3.25	82.6	17, 30, 36	6-1/2"
3-1/2"	3"	3.5	88.9	3.5, 4.5, 6, 8.75, 12, 15, 16, 18, 24, 30, 36, 48	7"
3-3/4"		3.75	95.3	17, 24, 32, 36	7-1/2"
4"	3-1/2"	4.0	101.6	4, 5, 6, 7.75, 10, 12, 18, 20, 24, 30, 36, 48, 60	8"
4-1/4"		4.25	107.9	16, 30, 36	8-1/2"
4-1/2"	4"	4.5	114.3	6, 9, 12, 16, 18, 20, 24, 30, 36, 48, 60	9"
4-3/4"		4.75	120.7	36	9-1/2"
5"		5.0	127.0	5.5, 7.5, 12.5, 24, 30, 36, 42, 48, 60	10"
	5"	5.563	141.3	20, 30, 36, 42, 48, 60, 72*	10" *18"
5-1/2"		5.5	139.7	30, 36	11"
6"		6.0	152.4	9, 15, 24, 30, 36, 42, 48, 60, 72	12"
	6"	6.625	168.2	24, 30, 36, 42, 48, 60, 72	12"
8"		8.0	203.2	12, 20, 32, 48, 60, 72	16"
	8"	8.625	219.1	24, 32, 40, 42, 48, 60, 72	16"
	10"	10.75	273.1	40, 48, 50	20"
	12"	12.75	323.9	48, 60	24"

Capabilities subject to change without notice. For bends not shown on the list, please contact your sales representative.

ORDER BENDS: By O.D., wall thickness, alloy, degree of bend, centerline radius and tangent.

WALL THICKNESS: 16 ga. (.063), 14 ga. (.083), and 11 ga. (.120) in tubing. Schedules 5, 10 and 40 pipe. Other wall thicknesses on request.

MATERIALS: Aluminum is 6063-T1 extruded. Stainless is T304 ASTM A312 for pipe and T304 ASTM A249 for tubing. Carbon steel ASTM A53 for pipe; A513 for tubing. Galvanized A53 for galvanized-coated pipe and A513 for galvanized-coated tubing. Aluminized tubing is ASTM A787.

STOCK TUBE BENDS

Morris maintains an extensive inventory of tube bends available for 24-hour shipment. Most popular bend sizes are stocked in carbon steel, aluminum and stainless materials.



2240 W. 15th St. • Erie, PA 16505 • 814-459-1741
 Phone: 1-800/426-1579 • Fax: 1-800/545-1399
 www.morriscoupling.com
 e-mail: sales@morriscoupling.com

Call MORRIS COUPLING for all your pneumatic conveying line needs.



PIPE DIMENSIONS AND WEIGHTS

PIPE SIZE	O.D. IN INCHES	PIPE SCHEDULES																		
		5s	5	10s	10	20	+	30	40s & STD.	40	⊕	60	80s & E.H.	80	100	120	140	160	DBL. E.H.	
1/8	.405		.035 .1383	.049 .1863	.049 .1863				.068 .2447	.068 .2447			.095 .3145	.095 .3145	BLACK WALL THICKNESS IN INCHES RED STEEL WEIGHT PER FOOT IN POUNDS BLUE ALUMINUM WEIGHT PER FOOT IN POUNDS					
1/4	.540		.049 .2570	.065 .3297	.065 .3297				.088 .4248	.088 .4248			.119 .5351	.119 .5351						
3/8	.675		.049 .3276	.065 .4235	.065 .4235				.091 .5676	.091 .5676			.126 .7388	.126 .7388						
1/2	.840	.065 .5383	.065 .3383	.083 .6710	.083 .6710				.109 .8510	.109 .8510			.147 .5088	.147 .5088					.187 .6304	.294 .7114
3/4	1.050	.065 .6838	.065 .6838	.083 .8572	.083 .8572				.113 .1131	.113 .1131			.154 .1474	.154 .1474					.218 .1937	.308 .2441
1	1.315	.065 .8678	.065 .8678	.109 .1404	.109 .1404				.133 .1679	.133 .1679			.179 .2172	.179 .2172					.250 .2844	.358 .3659
1 1/4	1.660	.065 .1107	.065 .1107	.109 .1806	.109 .1806				.140 .2273	.140 .2273			.191 .2997	.191 .2997					.250 .3765	.382 .5214
1 1/2	1.900	.065 .1274	.065 .1274	.109 .2085	.109 .2085				.145 .2718	.145 .2718			.200 .3631	.200 .3631					.281 .4859	.400 .6408
2	2.375	.065 .1604	.065 .1604	.109 .2638	.109 .2638				.154 .3653	.154 .3653			.218 .5022	.218 .5022					.344 .7462	.436 .9029
2 1/2	2.875	.083 .2475	.083 .2475	.120 .3531	.120 .3531				.203 .5793	.203 .5793			.276 .7661	.276 .7661					.375 .1001	.552 .1370
3	3.500	.083 .3029	.083 .3029	.120 .4332	.120 .4332				.216 .7576	.216 .7576			.300 .1025	.300 .1025					.438 .1432	.600 .1858
3 1/2	4.000	.083 .3472	.083 .3472	.120 .4937	.120 .4937				.226 .9109	.226 .9109			.318 .1251	.318 .1251					.636 .2285	
4	4.500	.083 .3915	.083 .3915	.120 .5613	.120 .5613				.237 .1079	.237 .1079			.337 .1498	.337 .1498		.438 .1900		.531 .2251	.674 .2754	
4 1/2	5.000								.247 .1254				.355 .1761							
5	5.563	.109 .6349	.109 .6349	.134 .7770	.134 .7770				.258 .1462	.258 .1462			.375 .2078	.375 .2078		.500 .2704		.625 .3296	.750 .3855	
6	6.625	.109 .7585	.109 .7585	.134 .9290	.134 .9290				.280 .1897	.280 .1897			.432 .2857	.432 .2857		.562 .3639		.719 .4335	.864 .5316	
7	7.625								.301 .2354				.500 .3804						.875 .6308	
8	8.625	.109 .9914	.109 .9914	.148 .1340	.148 .1340	.250 .2236	.175 .5463	.277 .8543	.322 .2855	.322 .2855		.406 .1233	.500 .3564	.500 .4339	.594 .5095	.719 .6071	.812 .6776	.906 .7479	.875 .7242	
9	9.625								.342 .3391				.500 .4873							
10	10.75	.134 .1519	.134 .1519	.165 .1865	.165 .1870	.250 .2804	.279 .1079	.307 .1134	.365 .4048	.365 .4048		.500 .1893	.500 .5474	.594 .6443	.719 .7703	.844 .8229	1.000 .1041	1.125 .1156	1.000 .1041	
11	11.75								.375 .4556				.500 .6008							
12	12.75	.156 .2107	.165 .2218	.180 .2416	.180 .2416	.250 .3338	.375 .1714	.330 .1514	.375 .4377	.375 .4377	.500 .2263	.562 .2531	.500 .7315	.500 .6542	.688 .8863	.844 .1073	1.000 .1255	1.125 .1367	1.000 .1255	
14	14.00	.156 .2307	.188 .2773	.250 .3671	.250 .3671	.312 .4561		.375 .5457	.375 .5457	.438 .6344		.594 .8505	.500 .7209	.688 .1061	.938 .1309	1.094 .1508	1.250 .1702	1.406 .1891		
16	16.00	.165 .2790	.188 .3175	.250 .4205	.250 .4205	.312 .5227		.375 .6258	.375 .6258	.500 .8277		.656 .1075	.500 .8277	.844 .1366	1.031 .1648	1.219 .1924	1.438 .2236	1.594 .2453		
18	18.00	.165 .3143	.188 .3576	.250 .4739	.250 .4739	.312 .5894		.438 .8215	.375 .7059	.562 .1047		.750 .1382	.500 .9345	.938 .1709	1.156 .2080	1.375 .2441	1.562 .2742	1.781 .3085		
20	20.00	.188 .3978	.218 .4605	.250 .5273	.250 .5273	.375 .7860		.500 .1041	.375 .7860	.594 .1231		.812 .1664	.500 .1041	1.031 .2089	1.281 .2561	1.500 .2964	1.750 .3411	1.969 .3792		

TUBING DIMENSIONS

TUBE GAUGE	18	17	16	15	14	13	12	11	1/8	10	9	5/32	8	7	3/16	6	5	4	1/4	2
WALL THICK.	.049	.058	.065	.075	.083	.095	.109	.120	.125	.134	.148	.156	.165	.180	.188	.203	.220	.238	.250	.280



2240 W. 15th St. • Erie, PA 16505
 Phone: 814-459-1741 • Toll Free: 1-800/426-1579 • Fax: 1-800/545-1399
www.morriscoupling.com • e-mail: sales@morriscoupling.com