

A-D TECHNOLOGIES

Table of Allowable Bend Radius and Safe Working Loads

Trade Size	OD	Bend Radius		Safe Working Loads							
		Supported	Unsupported	SDR 9	SDR 11	SDR 13.5	SDR 17	Sch 40	Sch 80		
1/2"	0.840	8	11	525	440	365	295	601	768		
3/4"	1.050	9	14	821	687	570	460	798	1,040		
1"	1.315	12	17	1,288	1,078	894	722	1,340	1,533		
1-1/4"	1.660	15	22	2,052	1,717	1,425	1,150	1,604	2,116		
1-1/2"	1.900	17	25	2,688	2,249	1,867	1,507	1,919	2,564		
2"	2.375	21	32	4,200	3,515	2,917	2,355	2,579	3,545		
2-1/2"	2.875	26	38	6,155	5,151	4,274	3,450	4,090	5,409		
3"	3.500	32	47	9,122	7,633	6,335	5,114	5,348	7,238		
4"	4.500	41	60	15,080	12,618	10,472	8,453	7,618	10,578		
5"	5.563	50	75	23,045	19,284	16,004	12,918	10,320	14,669		
6"	6.625	60	89	32,684	27,349	22,697	18,321	13,395	20,172		
8"	8.625	78	116	55,397	46,355	38,470	31,053	20,158	N/A		
10"	10.750	97	145	86,057	72,010	59,762	48,239	28,580	N/A		
12"	12.750	115	172	121,056	101,297	84,067	67,859	37,787	N/A		
14"	14.000	126	189	145,956	122,133	101,359	81,816	N/A	N/A		
16"	16.000	144	216	190,637	159,521	132,387	106,862	N/A	N/A		
18"	18.000	162	243	241,275	201,893	167,552	135,248	N/A	N/A		
20"	20.000	180	270	297,870	249,251	206,854	166,972	N/A	N/A		
22"	22.000	198	297	360,423	301,594	250,294	202,036	N/A	N/A		
24"	24.000	216	324	428,933	358,921	297,870	240,440	N/A	N/A		

Notes:

- 1) Supported bend radius is 18 times the OD while unsupported is 27 times the OD.
- 2) "Safe Working Load" is calculated using the minimum resin tensile of 3000 psi, the average OD and minimum wall thickness, with a 20% safety factor. For more information regarding "Safe Working Loads" ask for TR-110.