

Vylon Technical Sheet:

Vylon Pipe Joint Articulation Minimum Radius of Curvature

A change in direction of Prime Conduit Vylon Pipe can be achieved through joint articulation. The recommended maximum joint articulation of Vylon pipe is 2 degrees. Joint articulation can be repeated through a number of pipe lengths to accommodate various radii of curvature. The table below lists a range of joint articulations and pipe lengths which correspond to a minimum radius of curvature.

Example:

A bend in an existing sewer line has a radius of curvature equal to 100 ft. Determine the longest Slipliner pipe which can be used for sliplining around the curve:

Go to the 2.0 degree joint articulation column, or the joint articulation column less than or equal to the project specified maximum articulation. Move down the column until you find the minimum radius of curvature closest to 100 feet without exceeding it. For this example the number is 86 feet.

Look in the joint length column to find the length which corresponds to an 86 foot radius of curvature. The corresponding number in this example is 3.0 feet. Three feet is the longest pipe section which will articulate around a bend with a radius of curvature equal to 100 feet.

Minimum Radius of Curvature (ft)

Joint Length (feet)	Joint Articulation (degrees)									
	Recommended				Check with Vylon Pipe					
	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0
1.0	115	57	38	29	23	19	16	14	13	11
1.5	172	86	57	43	34	29	25	21	19	17
2.0	229	115	76	57	46	38	33	29	25	23
2.5	287	143	96	72	57	48	41	36	32	29
3.0	344	172	115	86	69	57	49	43	38	34
3.5	401	201	134	100	80	67	57	50	45	40
4.0	458	229	153	115	92	76	65	57	51	46
4.5	516	258	172	129	103	86	74	64	57	52
5.0	573	287	191	143	115	96	82	72	64	57
5.5	630	315	210	158	126	105	90	79	70	63
6.0	688	344	229	172	138	115	98	86	76	69
6.5	745	372	248	186	149	124	106	93	83	74
7.0	802	401	267	201	160	134	115	100	89	80
7.5	860	430	287	215	172	143	123	107	96	86
8.0	917	458	306	229	183	153	131	115	102	92
8.5	974	487	325	244	195	162	139	122	108	97
9.0	1031	516	344	258	206	172	147	129	115	103
9.5	1089	544	363	272	218	181	156	136	121	109
10.0	1146	573	382	287	229	191	164	143	127	115
10.5	1203	602	401	301	241	201	172	150	134	120
11.0	1261	630	420	315	252	210	180	158	140	126
11.5	1318	659	439	329	264	220	188	165	146	132
12.0	1375	688	458	344	275	229	196	172	153	138
12.5	1433	716	478	358	287	239	205	179	159	143
13.0	1490	745	497	372	298	248	213	186	166	149
13.5	1547	774	516	387	309	258	221	193	172	155
14.0	1604	802	535	401	321	267	229	201	178	160
14.5	1662	831	554	415	332	277	237	208	185	166
15.0	1719	860	573	430	344	287	246	215	191	172