

REFERENCE

POLYETHYLENE PRESSURE RATED TUBE

Polyethylene (PE) SDR Pressure Rated Tube C = 140

Loss per 100' of pipe (psi/100')

Size I.D.	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"	
	0.622		0.824		1.049		1.380		1.610		2.067		2.469		3.068		4.026	
Flow gpm	Velocity fps	psi loss	Velocity fps	psi loss	Velocity fps	psi loss	Velocity fps	psi loss	Velocity fps	psi loss	Velocity fps	psi loss	Velocity fps	psi loss	Velocity fps	psi loss	Velocity fps	psi loss
1	1.06	0.488	0.60	0.124	0.37	0.038	0.21	0.010	0.16	0.005	0.01	0.001	0.07	0.001	0.04	0.000	0.03	0.000
2	2.11	1.759	1.20	0.448	0.74	0.138	0.43	0.036	0.32	0.017	0.19	0.003	0.13	0.002	0.09	0.001	0.05	0.000
3	3.17	3.723	1.80	0.948	1.11	0.293	0.64	0.077	0.47	0.036	0.29	0.007	0.20	0.005	0.13	0.002	0.08	0.000
4	4.22	6.340	2.41	1.614	1.48	0.499	0.86	0.131	0.63	0.062	0.38	0.012	0.27	0.008	0.17	0.003	0.10	0.001
5	5.28	9.580	3.01	2.438	1.86	0.753	1.07	0.198	0.79	0.094	0.48	0.018	0.34	0.012	0.22	0.004	0.13	0.001
6	6.34	13.422	3.61	3.417	2.23	1.055	1.29	0.278	0.95	0.131	0.57	0.025	0.40	0.016	0.26	0.006	0.15	0.002
7	7.39	17.852	4.21	4.544	2.60	1.404	1.50	0.369	1.10	0.175	0.67	0.034	0.47	0.022	0.30	0.008	0.18	0.002
8	8.45	22.854	4.81	5.817	2.97	1.797	1.72	0.473	1.26	0.223	0.76	0.043	0.54	0.028	0.35	0.011	0.20	0.003
9	9.50	28.418	5.41	7.234	3.34	2.235	1.93	0.588	1.42	0.278	0.86	0.053	0.60	0.035	0.39	0.012	0.23	0.003
10	10.56	34.534	6.02	8.790	3.71	2.716	2.15	0.715	1.58	0.338	0.96	0.065	0.67	0.042	0.43	0.015	0.25	0.004
11	11.61	41.193	6.62	10.485	4.08	3.239	2.36	0.853	1.73	0.403	1.05	0.077	0.74	0.050	0.48	0.017	0.28	0.005
12	12.67	48.388	7.22	12.317	4.45	3.805	2.57	1.001	1.89	0.473	1.15	0.091	0.80	0.059	0.52	0.021	0.30	0.005
14	14.78	64.355	8.42	16.381	5.20	5.061	3.00	1.332	2.21	0.629	1.34	0.121	0.94	0.079	0.61	0.027	0.35	0.007
16	16.89	82.389	9.63	20.972	5.94	6.479	3.43	1.705	2.52	0.805	1.53	0.155	1.07	0.101	0.69	0.035	0.40	0.009
18	19.01	102.448	10.83	26.078	6.68	8.056	3.86	2.120	2.84	1.001	1.72	0.193	1.21	0.126	0.78	0.043	0.45	0.012
20	21.12	124.496	12.03	31.690	7.42	9.790	4.29	2.577	3.15	1.217	1.91	0.234	1.34	0.153	0.87	0.053	0.50	0.014
22			13.24	37.800	8.17	11.677	4.72	3.074	3.47	1.452	2.10	0.279	1.47	0.182	0.95	0.063	0.55	0.017
24			14.44	44.402	8.91	13.717	5.15	3.610	3.78	1.705	2.29	0.328	1.61	0.214	1.04	0.074	0.60	0.020
26			15.64	51.489	9.65	15.906	5.58	4.187	4.01	1.977	2.49	0.380	1.74	0.248	1.13	0.086	0.66	0.023
28			16.85	59.055	10.39	18.243	6.01	4.802	4.41	2.268	2.68	0.436	1.88	0.284	1.22	0.098	0.71	0.026
30			18.05	67.094	11.14	20.727	6.44	5.455	4.73	2.577	2.87	0.495	2.01	0.323	1.30	0.112	0.76	0.030
35			21.06	89.236	12.99	27.567	7.51	7.256	5.52	3.427	3.35	0.659	2.35	0.430	1.52	0.149	0.88	0.040
40					14.85	35.291	8.58	9.289	6.30	4.387	3.82	0.843	2.68	0.550	1.74	0.190	1.01	0.051
45					16.71	43.883	9.65	11.550	7.09	5.455	4.30	1.049	3.02	0.684	1.95	0.237	1.13	0.063
50					18.56	53.328	10.73	14.036	7.88	6.630	4.78	1.274	3.35	0.831	2.17	0.288	1.26	0.077
55					20.42	63.610	11.80	16.743	8.67	7.908	5.26	1.520	3.69	0.992	2.39	0.343	1.39	0.091
60							12.87	19.667	9.46	9.289	5.74	1.785	4.02	1.165	2.60	0.403	1.51	0.107
65							13.94	22.806	10.24	10.772	6.21	2.070	4.36	1.351	2.82	0.468	1.64	0.125
70							15.02	26.157	11.03	12.354	6.69	2.375	4.69	1.549	3.04	0.536	1.76	0.143
75							16.09	29.718	11.82	14.036	7.17	2.698	5.03	1.760	3.25	0.609	1.89	0.162
80							17.16	33.487	12.61	15.816	7.65	3.040	5.36	1.983	3.47	0.686	2.02	0.183
85							18.23	37.461	13.40	17.693	8.13	3.401	5.70	2.219	3.69	0.768	2.14	0.205
90									14.18	19.667	8.61	3.780	6.03	2.466	3.91	0.854	2.27	0.227
95									14.97	21.736	9.08	4.178	6.37	2.726	4.12	0.943	2.39	0.251
100									15.76	23.899	9.56	4.594	6.70	2.997	4.34	1.037	2.52	0.276
110									17.34	28.508	10.52	5.480	7.37	3.575	4.77	1.237	2.77	0.330
120											11.47	6.437	8.04	4.199	5.21	1.453	3.02	0.387
130											12.43	7.464	8.71	4.870	5.64	1.685	3.28	0.449
140											13.39	8.561	9.38	5.585	6.08	1.933	3.53	0.515
150											14.34	9.726	10.05	6.346	6.51	2.196	3.78	0.585
160											15.30	10.960	10.72	7.150	6.94	2.475	4.03	0.659
170											16.25	12.261	11.39	7.999	7.38	2.768	4.28	0.738
180													12.06	8.891	7.81	3.077	4.54	0.820
190													12.73	9.827	8.25	3.401	4.79	0.906
200													13.40	10.805	8.68	3.740	5.04	0.996
225													15.08	13.435	9.76	4.650	5.67	1.239
250													16.75	16.327	10.85	5.651	6.30	1.505
275															11.93	6.740	6.93	1.796
300															13.02	7.917	7.56	2.109
325															14.10	9.181	8.19	2.446
350															15.19	10.530	8.82	2.806
375															16.27	11.964	9.45	3.187
400																	10.08	3.592
425																	10.71	4.018
450																	11.34	4.466
475																	11.97	4.936
500																	12.60	5.427
550																	13.86	6.474
600																	15.12	7.604

(1) SDR 13.5 pipe for 1/2". SDR21 not standard.
Shading indicates velocities over 5 fps (not recommended).