



**PRESSURE CHARTS
FOR CRESLINE PIPES**

Bulletin No. T-6

SDR - 26

Pressure Drop Of Water Per 100 Ft. Of Pipe

May, 2002

SIZE	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"		6"		8"		SIZE		
GALLONS PER MINUTE	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	GALLONS PER MINUTE		
1	.79	.21	.47	.06	.29	.02																	1		
2	1.57	.76	.94	.22	.57	.06																	2		
3	2.36	1.61	1.42	.46	.86	.14	.52	.04															3		
4	3.15	2.74	1.89	.79	1.14	.23	.69	.07	.54	.04													4		
5	3.94	4.14	2.36	1.19	1.43	.35	.87	.10	.67	.05													5		
6	4.73	5.80	2.83	1.67	1.72	.49	1.04	.14	.80	.08													6		
8	6.30	9.87	3.78	2.84	2.29	.84	1.39	.24	1.06	.13	.68	.04											8		
10	7.88	14.91	4.72	4.29	2.86	1.27	1.74	.37	1.33	.20	.85	.07	.58	.03									10		
15			7.08	9.08	4.29	2.68	2.61	.78	2.00	.41	1.27	.14	.87	.05									15		
20			9.44	15.46	5.72	4.57	3.49	1.33	2.66	.70	1.70	.24	1.16	.09	.78	.04							20		
25					7.15	6.90	4.35	2.01	3.33	1.06	2.12	.36	1.45	.14	.97	.05							25		
30					8.58	9.67	5.22	2.81	4.00	1.49	2.55	.50	1.74	.20	1.17	.08							30		
35							6.10	3.74	4.66	1.98	2.98	.67	2.03	.27	1.35	.10							35		
40							6.95	4.79	5.33	2.54	3.40	.86	2.32	.34	1.56	.13	.94	.04					40		
45									6.00	3.16	3.84	1.06	2.61	.42	1.75	.16	1.06	.05					45		
50									6.66	3.84	4.25	1.29	2.90	.51	1.95	.19	1.18	.06					50		
60									8.00	5.38	5.10	1.81	3.48	.72	2.33	.27	1.41	.08					60		
70									9.32	7.15	5.95	2.41	4.06	.96	2.72	.36	1.65	.11					70		
80											6.80	3.08	4.64	1.23	3.11	.46	1.88	.14					80		
90											7.65	3.84	5.22	1.53	3.50	.58	2.12	.17					90		
100											8.50	4.66	5.80	1.85	3.89	.70	2.35	.20	1.09	.03			100		
125											10.60	7.04	7.25	2.80	4.86	1.06	2.94	.31	1.36	.05			125		
150													8.00	3.93	5.81	1.48	3.53	.43	1.64	.07			150		
175													10.15	5.22	6.81	1.97	4.11	.58	1.91	.09			175		
200															7.78	2.60	4.70	.76	2.18	.12			200		
225															8.75	3.17	5.29	.92	2.45	.14			225		
250															9.73	3.81	5.88	1.12	2.73	.17			250		
275															10.70	4.55	6.46	1.33	3.00	.20			275		
300																	7.05	1.56	3.27	.24	1.96	.07	300		
325																	7.64	1.81	3.54	.28	2.12	.08	325		
350																	8.23	2.08	3.82	.32	2.29	.09	350		
375																	8.81	2.36	4.09	.36	2.46	.11	375		
400																	9.40	2.66	4.36	.41	2.62	.12	400		
425																	9.99	2.98	4.63	.46	2.77	.13	425		
450																	10.58	3.31	4.91	.51	2.95	.15	450		
475																			5.18	.56	3.09	.16	475		
500																			5.45	.62	3.27	.18	500		
550																			6.00	.73	3.60	.21	550		
600																			6.54	.86	3.93	.25	600		
650																							4.26	.29	650
700																							4.58	.33	700
750																							4.91	.38	750
800																							5.24	.43	800
900																							5.89	.53	900
1000																							6.55	.65	1000

Note: All pressure drops calculated using the Williams and Hazen formula with: C=150

Recommended operating conditions shown above heavy line in charts.

SDR - 21

Pressure Drop Of Water Per 100 Ft. Of Pipe

May, 2002

SIZE	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"		6"		8"		SIZE
GALLONS PER MINUTE	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	GALLONS PER MINUTE
1	.79	.21	.47	.06	.29	.02																	1
2	1.57	.76	.94	.22	.57	.06																	2
3	2.36	1.61	1.42	.46	.86	.14	.54	.04															3
4	3.15	2.74	1.89	.79	1.14	.23	.73	.08	.55	.04													4
5	3.94	4.14	2.36	1.19	1.43	.35	.91	.12	.69	.06													5
6	4.73	5.80	2.83	1.67	1.72	.49	1.09	.16	.83	.08													6
8	6.30	9.87	3.78	2.84	2.29	.84	1.45	.28	1.10	.14	.71	.05											8
10	7.88	14.91	4.72	4.29	2.86	1.27	1.81	.42	1.38	.21	.89	.07	.60	.03									10
15			7.08	9.08	4.29	2.68	2.72	.89	2.07	.45	1.33	.15	.90	.06									15
20			9.44	15.46	5.72	4.57	3.63	1.51	2.76	.77	1.77	.26	1.20	.10	.84	.04							20
25					7.15	6.90	4.54	2.28	3.45	1.16	2.21	.39	1.50	.15	1.05	.06							25
30					8.58	9.67	5.45	3.20	4.15	1.62	2.65	.54	1.81	.22	1.26	.09							30
35							6.35	4.25	4.83	2.16	3.10	.72	2.10	.29	1.49	.11							35
40							7.26	5.45	5.52	2.76	3.54	.92	2.41	.37	1.68	.15	.98	.04					40
45							8.17	6.77	6.20	3.43	3.98	1.14	2.71	.45	1.90	.18	1.10	.05					45
50							9.08	8.23	6.90	4.17	4.42	1.39	3.01	.56	2.11	.22	1.23	.06					50
60							10.89	11.53	8.29	5.84	5.30	1.95	3.61	.80	2.39	.31	1.48	.09					60
70											6.19	2.59	4.21	1.04	2.96	.41	1.72	.12					70
80											6.77	3.32	4.82	1.32	3.38	.53	1.97	.15					80
90											7.10	4.12	5.42	1.64	3.80	.66	2.22	.19					90
100											7.95	5.01	6.02	2.00	4.21	.81	2.46	.23	1.14	.04			100
125													7.50	3.00	5.27	1.21	3.08	.35	1.43	.05			125
150													9.03	4.24	6.33	1.70	3.69	.49	1.71	.07			150
175													10.05	5.64	7.37	2.23	4.30	.65	1.99	.09			175
200															8.42	2.90	4.92	.83	2.28	.13			200
225															9.48	3.58	5.54	1.03	2.57	.15			225
250															10.60	4.36	6.15	1.25	2.85	.19			250
275															11.60	5.21	6.78	1.50	3.27	.22			275
300																	7.38	1.76	3.42	.28	2.04	.08	300
325																	8.00	2.04	3.71	.31	2.21	.09	325
350																	8.60	2.34	3.99	.36	2.38	.10	350
375																	9.22	2.66	4.28	.41	2.54	.12	375
400																	9.86	2.98	4.56	.46	2.72	.13	400
425																	10.45	3.35	4.86	.51	2.89	.15	425
450																	11.10	3.73	5.14	.57	3.06	.16	450
475																			5.42	.63	3.23	.18	475
500																			5.71	.69	3.40	.20	500
550																			6.28	.82	3.74	.24	550
600																					4.08	.28	600
650																					4.42	.32	650
700																					4.76	.37	700
750																					5.10	.42	750
800																					5.44	.48	800
900																					6.12	.59	900
1000																					6.79	.72	1000

CRESLINE PLASTIC PIPE CO., INC.

Bulletin No. T-6 Page 2

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SCH 40 IPS

Pressure Drop Of Water Per 100 Ft. Of Pipe

May, 2002

SIZE	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"		6"		8"		SIZE
GALLONS PER MINUTE	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	GALLONS PER MINUTE
1	1.05	.43	.60	.11	.37	.03																	1
2	2.11	1.55	1.20	.39	.74	.12	.43	.03															2
3	3.17	3.27	1.80	.83	1.11	.26	.64	.07	.47	.03													3
4	4.22	5.57	2.41	1.42	1.48	.44	.86	.11	.63	.05													4
5	5.28	8.42	3.01	2.15	1.86	.66	1.07	.17	.79	.08													5
6	6.33	11.81	3.61	3.01	2.23	.93	1.29	.24	.95	.11	.57	.03											6
8	8.44	20.10	4.81	5.12	2.97	1.58	1.72	.42	1.26	.20	.76	.06	.54	.02									8
10	10.55	30.37	6.02	7.73	3.71	2.39	2.15	.63	1.58	.30	.96	.09	.67	.04									10
15			9.02	16.37	5.57	5.06	3.22	1.33	2.36	.63	1.43	.19	1.01	.08	.65	.03							15
20					7.42	8.61	4.29	2.27	3.15	1.07	1.91	.32	1.34	.13	.87	.05							20
25					9.28	13.01	5.36	3.42	3.94	1.63	2.39	.48	1.67	.20	1.08	.07							25
30					11.14	18.22	6.43	4.80	4.73	2.27	2.87	.67	2.01	.28	1.30	.10							30
35							7.51	6.38	5.52	3.01	3.35	.89	2.35	.38	1.52	.13	.88	.03					35
40							8.58	8.17	6.30	3.86	3.82	1.14	2.64	.48	1.73	.17	1.01	.04					40
45							9.65	10.16	7.09	4.80	4.30	1.42	3.01	.60	1.95	.21	1.13	.05					45
50							10.72	12.35	7.88	5.83	4.78	1.73	3.35	.73	2.17	.25	1.26	.07					50
60							9.46	8.17	5.74	2.42	4.02	1.02	2.60	.35	1.51	.09							60
70									11.03	10.87	6.69	3.22	4.69	1.36	3.04	.47	1.76	.12					70
80											7.65	4.13	5.36	1.74	3.47	.60	2.02	.16					80
90											8.60	5.13	6.03	2.16	3.91	.75	2.27	.20					90
100											9.56	6.23	6.70	2.63	4.34	.91	2.52	.24	1.11	.03			100
125											11.95	9.42	8.38	3.97	5.42	1.38	3.15	.37	1.39	.05			125
150													10.05	5.56	6.51	1.93	3.78	.51	1.67	.07			150
175														7.59	2.57	4.41	.68	1.94	.09				175
200														8.68	3.40	5.04	.90	2.22	.12				200
225														9.76	4.09	5.67	1.09	2.50	.15				225
250														10.85	4.97	6.30	1.32	2.78	.18				250
275															6.93	1.58	3.05	.21					275
300															7.56	1.85	3.33	.25	1.96	.07			300
325															8.19	2.15	3.61	.29	2.12	.08			325
350															8.82	2.47	3.89	.34	2.29	.09			350
375		10"		12"											9.45	2.80	4.17	.38	2.46	.11			375
400	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.											10.08	3.16	4.44	.43	2.62	.12			400
425																	4.72	.48	2.77	.13			425
450	1.85	.05															5.00	.53	2.95	.15			450
475																	5.28	.59	3.09	.16			475
500	2.05	.06															5.55	.65	3.27	.18			500
550	2.26	.07															6.11	.78	3.60	.21			550
600	2.46	.08															6.67	.91	3.93	.25			600
650	2.67	.10															7.22	1.06	4.26	.29			650
700	2.87	.11															7.78	1.21	4.58	.33			700
750	3.08	.12	2.17	.05													8.33	1.38	4.91	.38			750
800	3.29	.14	2.31	.06													8.89	1.58	5.24	.43			800
900	3.70	.17	2.60	.07															5.89	.53			900
1000	4.11	.21	2.89	.09															6.55	.65			1000
1100	4.52	.25	3.18	.11																			1100
1200	4.93	.30	3.47	.13																			1200
1300	5.34	.34	3.76	.15																			1300
1400	5.75	.39	4.05	.17																			1400
1500	6.16	.45	4.34	.19																			1500
1750	7.19	.60	5.35	.25																			1750
2000	8.21	.76	5.78	.32																			2000
2250			6.51	.40																			2250
2500			7.23	.49																			2500

Note: This chart is also valid for:

CRESLINE NT Form No. 161-NT
CRESLINE HD Form No. 161-HD

SCH 80 IPS

Pressure Drop Of Water Per 100 Ft. Of Pipe

May, 2002

SIZE	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"		6"		8"		SIZE	
GALLONS PER MINUTE	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	VELOCITY FEET PER SECOND	PRESSURE DROP POUNDS PER SQ. IN.	GALLONS PER MINUTE	
1	1.37	.81	.74	.18	.45	.05																	1	
2	2.74	2.92	1.48	.65	.89	.19	.50	.05															2	
3	4.11	6.18	2.23	1.39	1.34	.40	.75	.10	.54	.04													3	
4	5.48	10.52	2.97	2.36	1.78	.69	1.00	.17	.73	.08													4	
5	6.85	15.89	3.71	3.57	2.23	1.04	1.25	.25	.91	.12													5	
6	8.22	22.27	4.45	5.01	2.68	1.45	1.50	.35	1.09	.16	.65	.05											6	
8	10.96	37.92	5.93	8.52	3.57	2.47	2.00	.60	1.45	.28	.87	.08	.61	.03									8	
10			7.42	12.88	4.46	3.73	2.50	.91	1.81	.42	1.09	.12	.75	.05									10	
15			11.13	27.27	6.69	7.91	3.75	1.93	2.72	.89	1.63	.25	1.13	.10	.73	.04							15	
20					8.92	13.46	5.00	3.29	3.63	1.51	2.17	.43	1.51	.18	.97	.06							20	
25					11.15	20.34	6.25	4.97	4.54	2.28	2.72	.65	1.89	.27	1.21	.09							25	
30							7.50	6.97	5.45	3.20	3.26	.92	2.27	.38	1.46	.13							30	
35							8.75	9.27	6.35	4.25	3.80	1.22	2.65	.51	1.70	.17	.98	.04					35	
40							10.00	11.87	7.26	5.45	4.35	1.56	3.03	.65	1.94	.22	1.12	.06					40	
45									8.17	6.77	4.89	1.94	3.41	.81	2.19	.27	1.25	.07					45	
50									9.08	8.23	5.43	2.36	3.78	.98	2.43	.33	1.39	.09					50	
60									10.89	11.53	6.52	3.31	4.54	1.37	2.91	.47	1.67	.12					60	
70									7.61	4.40	5.30	1.83	3.40	.62	1.95	.16							70	
80									8.69	5.63	6.06	2.34	3.89	.79	2.23	.21							80	
90									9.78	7.00	6.81	2.91	4.37	.99	2.51	.26							90	
100									10.87	8.51	7.57	3.53	4.86	1.20	2.79	.31	1.23	.04					100	
125											9.46	5.34	6.07	1.81	3.49	.47	1.54	.06					125	
150											11.35	7.43	7.29	2.54	4.19	.66	1.85	.09					150	
175													8.50	3.38	4.88	.88	2.15	.12					175	
200													9.71	4.47	5.58	1.16	2.46	.16					200	
225													10.93	5.38	6.28	1.40	2.77	.19					225	
250															6.98	1.70	3.08	.23					250	
275															7.67	2.03	3.38	.28					275	
300															8.37	2.38	3.69	.32	2.14	.09			300	
325															9.07	2.76	4.00	.38	2.32	.10			325	
350															9.77	3.16	4.31	.43	2.50	.12			350	
375															10.46	3.59	4.61	.49	2.68	.13			375	
400																	4.92	.55	2.86	.15			400	
425																	5.23	.62	3.04	.17			425	
450																	5.54	.69	3.21	.18			450	
475																	5.85	.76	3.39	.20			475	
500																	6.15	.83	3.57	.22			500	
550																	6.77	1.00	3.93	.27			550	
600																	7.38	1.17	4.28	.31			600	
650																	8.00	1.36	4.64	.37			650	
700																	8.61	1.56	5.00	.42			700	
750																	9.23	1.77	5.36	.48			750	
800																	9.85	2.03	5.71	.54			800	
900																				6.43	.67			900
1000																				7.14	.81			1000

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