

Bulletin No. T-6

**SDR - 26**

**Pressure Drop Of Water Per 100 Ft. Of Pipe**

**May, 2016**

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	1.05	.02													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	1.26	.02															7.05	1.56	3.27	.24	1.96	.07	300
325																	7.64	1.81	3.54	.28	2.12	.08	325
350	1.47	.03															8.23	2.08	3.82	.32	2.29	.09	350
375																	8.81	2.36	4.09	.36	2.46	.11	375
400	1.68	.04															9.40	2.66	4.36	.41	2.62	.12	400
425																	9.99	2.98	4.63	.46	2.77	.13	425
450	1.89	.05															10.58	3.31	4.91	.51	2.95	.15	450
475																			5.18	.56	3.09	.16	475
500	2.10	.06	1.49	.03															5.45	.62	3.27	.18	500
550	2.31	.07	1.64	.03															6.00	.73	3.60	.21	550
600	2.52	.09	1.79	.04															6.54	.86	3.93	.25	600
650	2.72	.10	1.94	.04																	4.26	.29	650
700	2.93	.11	2.09	.05																	4.58	.33	700
750	3.14	.13	2.23	.06																	4.91	.38	750
800	3.35	.15	2.38	.06																	5.24	.43	800
900	3.77	.18	2.68	.08																	5.89	.53	900
1000	4.19	.22	2.98	.10																	6.55	.65	1000
1250	5.24	.34	3.72	.15																			1250
1500	6.29	.47	4.47	.21	2.84	.07																	1500
1750	7.34	.63	5.21	.27																			1750
2000	8.38	.80	5.96	.35	3.78	.12																	2000
2500					4.73	.17																	2500
3000					5.67	.25																	3000
3500					6.62	.33																	3500

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

**Recommended operating conditions shown above heavy line in charts.**

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		1.31	.03														7.38	1.76	3.42	.28	2.04	.08	300
325																	8.00	2.04	3.71	.31	2.21	.09	325
350		1.53	.04	1.09	.02												8.60	2.34	3.99	.36	2.38	.10	350
375																	9.22	2.66	4.28	.41	2.54	.12	375
400		1.75	.05	1.24	.02												9.86	2.98	4.56	.46	2.72	.13	400
425																	10.45	3.35	4.86	.51	2.89	.15	425
450		1.97	.06	1.40	.02												11.10	3.73	5.14	.57	3.06	.16	450
475																			5.42	.63	3.23	.18	475
500		2.19	.07	1.55	.03														5.71	.69	3.40	.20	500
550		2.41	.08	1.71	.04														6.28	.82	3.74	.24	550
600		2.62	.10	1.87	.04																4.08	.28	600
650		2.84	.11	2.02	.05																4.42	.32	650
700		3.06	.13	2.18	.06																4.76	.37	700
750		3.28	.14	2.33	.06																5.10	.42	750
800		3.50	.16	2.49	.07																5.44	.48	800
900		3.94	.20	2.80	.09																6.12	.59	900
1000		4.37	.25	3.11	.11																6.79	.72	1000
1250		5.46	.37	3.89	.16																		1250
1500		6.56	.52	4.66	.23																		1500
1750		7.65	.69	5.44	.30																		1750
2000		8.75	.89	6.22	.39																		2000

CRESLINE PLASTIC PIPE CO., INC.

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**SCH 40 IPS**

**Pressure Drop Of Water Per 100 Ft. Of Pipe**

**May, 2016**

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																	9.45	2.80	4.17	.38	2.46	.11		375
400																	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	2.74	.06																		1500
1750	7.19	.60	5.35	.25																				1750
2000	8.21	.76	5.78	.32	3.65	.11																		2000
2250			6.51	.40																				2250
2500			7.23	.49	4.57	.16																		2500
3000					5.48	.23																		3000
3500					6.40	.30																		3500

**Note: This chart is also valid for:**

**CRESLINE HD Form No. 161-HD**

**SCH 80 IPS**

**Pressure Drop Of Water Per 100 Ft. Of Pipe**

**May, 2016**

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	1.59	.04															9.77	3.16	4.31	.43	2.50	.12		350
375																	10.46	3.59	4.61	.49	2.68	.13		375
400	1.81	.05																	4.92	.55	2.86	.15		400
425																			5.23	.62	3.04	.17		425
450	2.04	.06																	5.54	.69	3.21	.18		450
475																			5.85	.76	3.39	.20		475
500	2.27	.07	1.60	.03															6.15	.83	3.57	.22		500
550	2.49	.09	1.76	.04															6.77	1.00	3.93	.27		550
600	2.72	.12	1.92	.04															7.38	1.17	4.28	.31		600
650	2.95	.12	2.08	.05															8.00	1.36	4.64	.37		650
700	3.17	.14	2.24	.06															8.61	1.56	5.00	.42		700
750	3.40	.16	2.40	.07															9.23	1.77	5.36	.48		750
800	3.63	.18	2.56	.08															9.85	2.03	5.71	.54		800
900	4.08	.22	2.88	.10																	6.43	.67		900
1000	4.54	.27	3.20	.12																	7.14	.81		1000
1250	5.67	.41	4.01	.17																				1250
1500	6.80	.57	4.81	.24																				1500
1750	7.94	.76	5.61	.32																				1750
2000	9.07	.97	6.41	.42																				2000

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