

## Schedule 40 Performance

Pipe Capacities Based On Schedule 40 Pipe Size (Some variation when inside diameter of pipe changes)

SCHEDULE 40 PIPE CAPACITY	
Pipe Size	Length in Feet per Gallon
1/2"	63.00
3/4"	36.00
1"	22.00
1-1/4"	12.80
1-1/2"	9.45
2"	5.73
2-1/2"	4.02
3"	2.60
4"	1.57
5"	0.96
6"	0.66
8"	0.38
10"	0.24
12"	0.17

Example: Twenty two feet of 1" pipe will hold one (1) gallon of solution

## Schedule 40 Performance

Pressure Capacity at Elevated Temperature for Schedule 40 Pipe. (In Pounds per Square Inch)

PRESSURE CAPACITY FOR SCHEDULE 40								
Pipe Size	73°F	80°F	90°F	100°F	110°F	120°F	130°F	140°F
1/2"	600	528	450	372	300	240	180	132
3/4"	480	422	360	298	240	192	144	106
1-1/4"	370	326	278	229	185	148	111	81
1-1/2"	330	290	248	205	165	132	99	73
2"	280	246	210	174	140	112	84	62
2-1/2"	300	264	225	186	150	120	90	66
4"	220	194	165	136	110	88	66	48
5"	190	167	143	118	95	76	57	42
6"	180	158	135	112	90	72	54	40
8"	160	141	120	99	80	64	48	35
10"	140	123	105	87	70	56	42	31
12"	130	114	98	81	65	52	39	29

Pressure Capacity at or above 140° F for all sizes is 0 psi.

\* PVC PIPE IS NOT RECOMMENDED FOR PRESSURE USE ABOVE 140° F

**PRESSURE LOSS (IN LBS. PER SQUARE INCH)  
PER 100 FEET OF SCHEDULE 40 PIPE**

<b>FLOW GPM</b>	<b>1/2"</b>	<b>3/4"</b>	<b>1"</b>	<b>1-1/4"</b>	<b>1-1/2"</b>	<b>2"</b>	<b>2-1/2"</b>	<b>3"</b>	<b>4"</b>	<b>5"</b>	<b>6"</b>	<b>8"</b>	<b>10"</b>	<b>12"</b>
1	0.49	0.13												
2	1.78	0.45												
3	3.75	0.95												
4	6.40	1.63	0.50											
5	9.64	2.46	0.75											
6	13.50	3.45	1.05											
7	18.00	4.59	1.38											
8		5.85	1.81	0.48										
9		7.28	2.23	0.60										
10		8.84	2.75	0.72	0.34									
11		10.60	3.26	0.86	0.40									
12		12.40	3.85	1.01	0.48									
13			4.44	1.17	0.55									
14			5.10	1.35	0.63									
15			5.19	1.52	0.72									
20			9.85	2.60	1.24	0.36								
25				3.92	1.85	0.55								
30				5.50	2.60	0.77	0.32							
35				7.30	3.45	1.02	0.43							
40					4.43	1.31	0.55							
50					6.67	1.98	0.84							
60						2.79	1.17							
70						3.70	1.55	0.54						
80						4.72	2.00	0.70						
90							2.49	0.87						
100							3.00	1.05	0.28					
110							3.59	1.25	0.33	0.117				
120								1.46	0.39	0.134				
140								1.95	0.53	0.178	0.065			
150								2.23	0.60	0.199	0.074			
160								2.50	0.67	0.221	0.082			
170								2.80	0.74	0.247	0.091			
190									0.91	0.303	0.113			
200									1.00	0.359	0.126	0.030		
220									1.10	0.424	0.147	0.035		
240									1.20	0.489	0.178	0.043	0.014	
260									1.30	0.563	0.204	0.052	0.016	
280									1.41	0.641	0.234	0.056	0.019	
300										0.719	0.268	0.065	0.022	
320										0.810	0.299	0.074	0.025	
340										0.896	0.329	0.082	0.027	
360										0.987	0.372	0.091	0.030	
380											0.407	0.104	0.033	0.014
400											0.446	0.108	0.037	0.016
450											0.559	0.139	0.045	0.020
550											0.805	0.199	0.065	0.028
600											0.948	0.234	0.077	0.033
650												0.273	0.090	0.038
700												0.312	0.105	0.044
750												0.355	0.120	0.050



## VELOCITY OF FLOW (IN FEET PER SECOND) FOR SCHEDULE 40 PIPE

Flow GPM	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
1	1.06	0.60												
2	2.11	1.20												
3	3.17	1.80												
4	4.22	2.41	1.48											
5	5.28	3.01	1.86											
6	6.33	3.61	2.23											
7	7.39	4.21	2.60											
8		4.81	2.97	1.72										
9		5.41	3.34	1.93										
10		6.02	3.71	2.15	1.58									
11		6.62	4.08	2.36	1.73									
12		7.22	4.45	2.57	1.89									
13			4.83	2.79	2.05									
14			5.20	3.00	2.21									
15			5.57	3.22	2.36									
20			7.42	4.29	3.15	1.91								
25				5.36	3.94	2.39								
30				6.44	4.73	2.87	2.01							
35				7.51	5.52	3.35	2.35							
40					6.30	3.82	2.68							
50					7.88	4.78	3.35							
60						5.74	4.02							
70						6.69	4.69	3.04						
80						7.65	5.36	3.47						
90							6.03	3.91						
100							6.70	4.34	2.52					
110							7.37	4.77	2.77					
120								5.21	3.02	1.96				
130								5.64	3.28	2.12				
140								6.08	3.53	2.29				
150								6.51	3.78	2.45				
160								6.94	4.03	2.61	1.80			
170								7.38	4.28	2.77	1.92			
180									4.54	2.94	2.04			
190									4.79	3.10	2.16	1.21		
200									5.04	3.27	2.27	1.28		
220									5.54	3.59	2.44	1.40	0.90	
240									6.05	3.92	2.67	1.53	0.98	
260									6.55	4.25	2.89	1.66	1.06	
280									7.06	4.90	3.11	1.79	1.15	

