

Silver-Line Plastics

PVC-Schedule 80 Pressure Pipe

Our PVC SCH 80 is produced from Type 1, Grade 1, virgin PVC compound and meets or exceeds the requirements of ASTM D 1785. This product is available in both plain and threaded end. Threaded pipe is supplied with a plastic cap on each end to protect the thread until installation. We use a unique, lathe-type tool to thread our PVC SCH 80. First, the pipe end is chamfered and beveled to ease the initial coupling of the threads and to allow better tightening. The pipe is then automatically rotated while the threads are being precision cut with a stationary lathe tool bit, making our threaded PVC SCH 80 the standard bearer in the industry.

Specially manufactured for use in the well drilling industry, PVC SCH 80 has seen increased popularity and usage as a result of its resilience to water and soil conditions and heavier working pressure ratings. Sold with an optional threaded end, this product is often preferred by well drilling professionals. However, the disparity between the pressure ratings for PVC SCH 80 plain end and threaded pipe must be carefully evaluated by the installer. Ease of installation offered by the use of threaded pipe should always be balanced against the greater pressure ratings afforded by the use of plain end pipe joined by solvent welding.

We recommend that installers of PVC SCH 80 pipe in well applications support the pump by using a support cable or a rope.

TOO MUCH CEMENT WILL DAMAGE THE PIPE
PVC PIPE IS NOT RECOMMENDED FOR AIR PRESSURE

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PVC SCHEDULE 80 PVC 1120 TYPE I GRADE1 (Threaded; White)

20 Foot Lengths

Nominal Size	Item Number	Bar Code 7 17141	Inside Diameter	Outside Diameter	Min. Wall Thickness	Max Working Pressure at 73° F	Ft/Pallet	Wt/100'
1"	16.102	16102 5	0.957	1.315	0.179	THD 320 PSI PE 630 PSI	5,200'	40
1-1/4"	16.122	16122 3	1.278	1.660	0.191	THD 260 PSI PE 520 PSI	5,000'	55
2"	16.202	16202 2	1.939	2.375	0.218	THD 200 PSI PE 400 PSI	1,400'	94

Material Complies with ANSI / NSF Standard 61

NSF-pw

Conforms to ASTM D 1785

PVC SCHEDULE 80 PVC 1120 TYPE I GRADE1 (Plain End; Gray)

20 Foot Lengths

Nominal Size	Item Number	Bar Code 7 17141	Inside Diameter	Outside Diameter	Min. Wall Thickness	Max Working Pressure at 73° F	Ft/Pallet	Wt/100'
1/2"	16.050	16050 9	0.546	0.840	0.147	850 PSI	9,600'	20
3/4"	16.070	16070 7	0.742	1.050	0.154	690 PSI	8,000'	27
1"	16.100	16170 1	0.957	1.315	0.179	630 PSI	5,200'	40
1-1/4"	16.120	16120 9	1.278	1.660	0.191	520 PSI	5,000'	55
1-1/2"	16.150	16150 6	1.500	1.900	0.200	470 PSI	4,500'	68
2"	16.200	16200 8	1.939	2.375	0.218	400 PSI	1,400'	94
2-1/2"	17.250	17250 2	2.323	2.875	0.276	420 PSI	1160'	144
3"	17.300	17300 4	2.900	3.500	0.300	370 PSI	760'	194
4"	17.400	17400 1	3.826	4.500	0.337	320 PSI	580'	286
5"	17.500	17500 8	4.813	5.563	0.375	290 PSI	260'	397
6"	17.600	17600 5	5.761	6.625	0.432	280 PSI	260'	545

Material Complies with ANSI / NSF Standard 61

NSF-pw

Conforms to ASTM D 1785

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HORSEPOWER RATING AND DEPTH RATING CHART FOR PVC SCH 80 THREADED DROP PIPE

Nominal Size	Maximum H.P.	Maximum Depth
1" THD	1.5	615'
1-1/4" THD	2	535'
2" THD	7.5	400'

Silver-Line recommends that installers of Schedule 80 pipe in well applications should support the pump by using a cable or rope. The length of the coupling used to join PVC threaded pipes should be at least 2". For the use of torque arrestors and centering devices, follow the manufacturer's recommendations. Maximum depth settings are calculated with a 40 psi top of the well pressure.

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Pressure Loss From Friction (in lbs per square inch) per 100 feet of Schedule 80 Pipe

Flow GPM	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"
1	0.96	0.24									
2	3.51	0.79									
3	7.36	1.68									
4	12.66	2.85	0.82								
5	19.05	4.23	1.26								
6	26.07	6.02	1.75								
7		7.98	2.31								
8		10.25	2.95	0.66							
9		13.51	3.72	0.82							
10		15.44	4.50	1.00							
11			5.34	1.19							
12			6.27	1.39	0.71						
13			7.29	1.62	0.83						
14			8.36	1.85	0.95						
15			9.51	2.10	1.07						
20				3.57	1.81	0.48					
25				5.41	2.75	0.70					
30				7.58	3.85	0.98					
35					5.13	1.31					
40					6.57	1.67	0.73				
50					9.92	2.52	1.09				
60						3.53	1.53				
70						4.70	2.04	0.75			
80						6.02	2.59	0.96			
90						7.51	3.23	1.19			
100							3.92	1.44	0.38		
110							4.70	1.73	0.44		
120							5.49	2.02	0.52		
130							6.37	2.36	0.62		
140							7.31	2.69	0.69		
150								3.06	0.79		
160									0.90	0.101	
170									0.99	0.113	
180									1.11	0.126	
190									1.22	0.139	
200									1.35	0.153	0.039
220									1.64	0.182	0.047
240									1.90	0.210	0.055
260										0.248	0.064
280										0.285	0.073
300										0.323	0.083
320										0.364	0.093
340										0.407	0.104
360										0.455	0.113
380										0.502	0.128
400										0.550	0.141
450										0.684	0.175
500										0.831	0.213
550										0.992	0.254
600											0.297
650											0.346
700											0.397
750											0.450
800											0.507
850											0.567
900											0.632
1000											0.766

Use With Caution: Flow Velocity above 5' per second may cause turbulence or create damaging surge pressures.

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Velocity of Flow (in feet per second) for Schedule 80 Pipe

Flow GPM	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"	8"
1	1.37	0.74									
2	2.73	1.48									
3	4.10	2.22									
4	5.47	2.96	1.78								
5	6.84	3.70	2.23								
6		4.44	2.67								
7		5.18	3.12								
8		5.92	3.56	2.00							
9		6.66	4.01	2.25							
10			4.45	2.50	1.81						
11			4.90	2.74	1.99						
12			5.34	2.99	2.17						
13			5.79	3.24	2.35						
14			6.23	3.49	2.54						
15			6.68	3.74	2.72						
20				4.99	3.62	2.17					
25				6.24	4.53	2.71					
30					5.43	3.25	2.27				
35					6.34	3.79	2.64				
40						4.34	3.02				
50						5.42	3.78				
60						6.50	4.53				
70							5.29	3.40			
80							6.04	3.88			
90							6.80	4.37			
100								4.85	2.78		
110								5.34	3.06		
120								5.82	3.34		
130								6.31	3.61		
140								6.79	3.89		
150									4.17		
160									4.45		
170									4.73	2.08	
180									5.00	2.22	
190									5.28	2.34	
200									5.56	2.46	1.41
220									6.12	2.71	1.55
240									6.67	2.96	1.69
260										3.20	1.83
280										3.45	1.97
300										3.69	2.11
320										3.94	2.24
340										4.19	2.39
360										4.43	2.64
380										4.68	2.68
400										4.93	2.81
450										5.54	3.16
500										6.16	3.51
550										6.77	3.86
600											4.22
650											4.57
700											4.92
750											5.27
800											5.62
850											5.97

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