



PVC Monitor Pipe Specifications

1. All casing, pipe, and screen shall be PVC Flush Threaded.
2. The PVC flush threaded casing pipe and screen shall be manufactured from Type 1, Grade 1 PVC resins as specified in ASTM D1785. The casing pipe shall also be approved by the National Sanitary Foundation (NSF) for use in potable water applications.
3. All PVC shall be free of ink markings.
4. To Assure easy make up, the PVC monitor pipe and screen must be threaded to the ASTM F480 specification with O-ring groove turned in the male thread. The manufacturer will provide the O-ring.
5. All threaded connections must be manufactured using computer controlled threading machines to insure precision of cut and consistency between manufacturing lots.
6. All PVC flush threaded monitor pipe shall make up in stated lengths, shoulder to shoulder.
7. The slots in all PVC screen pipe must be cut on precision computer controlled slotting machines, providing uniform slot and space dimensions.
8. All PVC screen pipe must be de-burred and cleaned using a high pressure air and/or water process to ensure unobstructed and dust free slot opening.
9. The finished monitor pipe and screen shall be received in visibly clean condition, free of oil, grease, dirt, and fingerprints.
10. The monitor pipe and screen shall be individually packaged in plastic and then packed in heavy wall corrugated boxes clearly labeled with the brand name and contents.



Weights & Dimensions of Schedule 40 PVC *

Pipe ID Nominal	Pipe OD Average	Pipe ID Average	Miniwall Thickness	Approx. Ship Wt. in Lbs./Ft	Max Water Pressure PSI **
0.50"	0.840"	0.608"	0.109"	0.166	600
0.75"	1.050"	0.810"	0.113"	0.220	480
1.00"	1.315"	1.033"	0.133"	0.324	450
1.25"	1.660"	1.364"	0.140"	0.439	370
1.50"	1.900"	1.592"	0.145"	0.525	330
2.00"	2.375"	2.049"	0.154"	0.702	280
2.50"	2.875"	2.445"	0.203"	1.108	300
3.00"	3.500"	3.042"	0.216"	1.449	260
4.00"	4.500"	3.998"	0.237"	2.064	220
5.00"	5.563"	5.017"	0.258"	2.966	190
6.00"	6.625"	6.031"	0.280"	3.630	180
8.00"	8.625"	7.943"	0.322"	5.845	160
10.00"	10.750"	9.976"	0.365"	7.745	140
12.00"	12.750"	11.890"	0.406"	10.240	130

* Per ASTM D-1785 for PVC Pipe

** Water at 23°C (73° F) for Unthreaded Pipe



Weights & Dimensions of Schedule 80 PVC *

Pipe ID Nominal	Pipe OD Average	Pipe ID Average	Miniwall Thickness	Approx Ship Wt. in Lbs./Ft	Max Water Pressure PSI **
0.50"	0.840"	0.528"	0.147"	0.210	850
0.75"	1.050"	0.724"	0.154"	0.283	690
1.00"	1.315"	0.935"	0.179"	0.417	630
1.25"	1.660"	1.256"	0.191"	0.573	520
1.50"	1.900"	1.476"	0.200"	0.695	470
2.00"	2.375"	1.913"	0.218"	0.961	400
2.50"	2.875"	2.289"	0.276"	1.466	420
3.00"	3.580"	2.864"	0.300"	1.961	370
4.00"	4.500"	3.786"	0.337"	2.866	320
5.00"	5.563"	4.767"	0.375"	3.888	290
6.00"	6.625"	5.709"	0.432"	5.466	280
8.00"	8.625"	7.565"	0.500"	8.301	250
10.00"	10.750"	9.492"	0.593"	12.306	230
12.00"	12.750"	11.294"	0.687"	16.933	230

* Per ASTM D-1785 for PVC Pipe

** Water at 23°C (73° F) for Unthreaded Pipe



ENVIRONMENTAL MANUFACTURING INC.

Open Intake Area for PVC Well Screens SCH40

Pipe Size	Rows	Standard Slot Sizes with .125" Spacing (Open area shown as Square Inches per Linear Foot of Pipe)													
		.006	.008	.010	.012	.014	.016	.020	.025	.030	.032	.040	.050	.064	.085
1.25"	3	1.23	1.62	2.64	3.13	3.61	4.08	4.92	6.00	6.93	7.30	8.64	10.2	—	—
1.50"	3	1.23	1.62	2.64	3.13	3.61	4.08	4.92	6.00	6.93	7.30	8.64	10.2	—	—
2.00"	4	1.64	2.16	3.96	4.70	5.42	6.12	7.38	9.00	10.40	10.94	12.96	15.30	18.14	21.80
2.50"	4	—	—	4.22	5.01	5.78	6.53	7.87	9.60	11.09	11.67	13.82	16.32	19.35	19.18
3.00"	4	—	—	5.28	6.26	7.22	8.16	9.84	12.00	13.86	14.59	17.28	20.40	24.19	29.07
4.00"	5	—	—	6.60	9.14	10.53	11.90	14.35	17.50	20.21	21.28	25.20	29.75	35.28	42.39
5.00"	5	—	—	6.12	7.26	8.37	9.45	14.76	18.00	20.79	21.89	25.92	30.60	36.28	43.61
6.00"	6	—	—	7.79	9.24	10.66	12.04	17.22	21.00	24.25	25.54	30.24	35.70	42.33	50.88
Number of cuts per row per foot		91	90	88	87	86	85	82	80	77	76	72	68	63	57

Pipe Size	Rows	Standard Slot Sizes with .250" Spacing (Open area shown as Square Inches per Linear Foot of Pipe)													
		.006	.008	.010	.012	.014	.016	.020	.025	.030	.032	.040	.050	.064	.085
0.50"	2	0.30	0.40	0.51	0.59	0.69	0.79	0.97	1.18	1.39	1.48	1.80	2.20	—	—
0.75"	2	0.47	0.63	0.78	0.92	1.07	1.22	1.50	1.83	2.14	2.29	2.79	3.40	—	—
1.00"	3	0.54	0.72	0.90	1.05	1.23	1.40	1.72	2.10	2.46	2.62	3.20	3.90	—	—
1.25"	3	—	—	1.38	1.62	1.89	2.16	2.64	3.23	3.78	4.03	4.92	6.00	—	—
1.50"	3	—	—	1.38	1.62	1.89	2.16	2.64	2.23	3.78	4.03	4.92	6.00	—	—
2.00"	4	0.86	1.14	2.07	2.43	2.84	3.24	3.96	4.84	5.67	6.05	7.38	9.00	10.94	13.39
2.50"	4	—	—	2.39	2.81	3.28	3.74	4.58	5.59	6.55	6.99	8.53	10.40	12.84	15.47
3.00"	4	—	—	2.76	3.24	3.78	4.32	5.28	6.45	7.56	8.06	9.84	12.00	14.59	17.85
4.00"	5	—	—	3.45	4.73	5.51	6.30	7.70	9.40	11.02	11.76	14.35	17.50	21.28	26.03
5.00"	5	—	—	3.62	4.25	4.96	5.67	7.92	9.68	11.34	12.10	14.76	18.00	21.89	26.78
6.00"	6	—	—	4.07	4.78	5.58	6.37	9.24	11.29	13.23	14.11	17.22	21.00	25.54	31.24
8.00"	7	—	—	4.03	4.73	5.51	6.30	11.55	14.11	16.54	17.64	21.53	26.25	31.92	35.05
10.00"	8	—	—	—	—	—	—	10.56	12.90	15.12	16.13	19.68	24.00	29.18	35.70
12.00"	10	—	—	—	—	—	—	13.20	16.12	18.90	20.16	24.60	30.00	36.48	44.63
Number of cuts per row per foot		46	46	46	45	45	45	44	43	42	42	41	40	38	35

PIPE

FITTINGS

ACCESSORIES



Open Intake Area for PVC Well Screens SCH80

Pipe Size	Rows	Standard Slot Sizes with .125" Spacing (Open area shown as Square Inches per Linear Foot of Pipe)						
		.010	.012	.014	.016	.020	.025	.030
2.00"	4	3.08	3.65	4.21	4.76	5.74	7.00	8.09
2.50"	4	3.87	4.59	5.30	5.98	7.22	8.80	10.16
Number of cuts per row per foot								
		88	87	86	85	82	80	77

Pipe Size	Rows	Standard Slot Sizes with .250" Spacing (Open area shown as Square Inches per Linear Foot of Pipe)											
		.010	.012	.014	.016	.020	.025	.030	.032	.040	.050	.064	.085
0.50"	2	0.39	0.46	0.54	0.61	0.75	0.91	1.07	1.14	1.39	1.70	—	—
0.75"	2	0.69	0.81	0.95	1.08	1.32	1.61	1.89	2.02	2.46	3.00	—	—
1.00"	3	0.69	0.81	0.95	1.08	1.32	1.61	1.89	2.02	2.46	3.00	—	—
1.25"	3	1.00	1.18	1.37	1.57	1.91	2.34	2.74	2.92	3.57	4.35	—	—
1.50"	3	1.10	1.30	1.51	1.73	2.11	2.58	3.02	3.23	3.94	4.80	—	—
2.00"	4	1.61	1.89	2.21	2.52	3.08	3.76	4.41	4.70	5.74	7.00	8.51	10.41
02.50"	4	2.02	2.38	2.77	3.17	3.87	4.73	5.54	5.91	7.22	8.80	10.70	13.09
3.00"	4	2.48	2.92	3.40	3.89	4.75	5.81	6.80	7.26	8.86	10.80	13.13	16.07
4.00"	5	2.24	2.63	3.07	3.51	5.94	7.26	8.51	9.07	11.07	13.50	16.42	20.08
5.00"	5	—	—	—	3.78	4.62	5.64	6.61	7.06	8.61	10.50	12.77	15.62
6.00"	6	—	—	—	3.35	4.09	5.00	5.86	6.25	7.63	9.30	11.31	13.83
8.00"	7	—	—	—	—	—	—	5.51	5.88	7.18	8.75	10.64	13.02
10.00"	9	—	—	—	—	—	—	5.84	6.23	7.60	9.27	11.27	13.79
Number of cuts per row per foot													
		46	45	45	45	44	43	42	42	41	40	38	35