



Variper™ Wire Wrapped Rod Based Screen

Website: F-E-T.COM/DOWNHOLE/VARIPERM

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Size (1)	Outer Diameter	Inner Diameter	Wire Width	Weight (2)	Collapse Strength (2, 3)	Tensile Strength (3)
	inch	inch	inch	lbs/ft	PSI	lbs
1" PS	1.360	1.010	0.060	0.94	12,670	1,467
1.1" PS	1.430	1.080	0.060	0.91	10,666	1,060
1-1/4" PS	1.610	1.260	0.060	1.13	7,135	1,793
	1.660	1.160	0.060	1.67	7,521	4,995
1-1/2" PS	1.760	1.410	0.060	1.24	5,295	2,038
	1.900	1.400	0.060	1.91	4,693	5,709
1.6" PS	1.960	1.610	0.060	1.39	3,707	2,282
2" ENV	2.385	2.035	0.060	1.55	1,953	1,956
2" PS Small	2.390	1.890	0.060	2.40	2,151	7,136
2" PS	2.750	2.250	0.060	2.41	1,349	6,066
3" PS	3.500	3.000	0.060	3.20	614	8,563
4" TS	3.750	3.250	0.060	3.10	492	7,136
4" PS	4.500	4.000	0.060	3.84	275	9,277
	4.570	4.000	0.090	5.15	760	
5" TS	4.750	4.320	0.060	3.25	226	4,825
	4.820	4.320	0.090	4.63	626	
	4.820	4.250	0.090	5.29	641	
5" PS / 6" TS	5.555	5.125	0.060	3.78	138	11,418
	5.625	5.125	0.090	5.38	385	
	5.620	5.050	0.090	6.33	394	
	5.694	5.050	0.072	7.63	797	
	5.730	5.052	0.120	9.23	986	
6" PS	6.620	6.050	0.090	7.25	235	12,132
	6.694	6.050	0.072	8.76	478	
	6.720	6.042	0.120	10.62	595	
8" TS	7.500	6.930	0.090	8.30	159	14,272
	7.574	6.930	0.072	10.00	324	
	7.600	6.922	0.120	12.15	404	
8" PS	8.620	8.050	0.090	9.42	103	23,252
	8.694	8.050	0.072	11.37	211	
	8.720	8.042	0.120	13.78	263	
	8.854	8.042	0.128	17.59	641	
10" TS	9.500	8.930	0.090	10.58	76	27,480
	9.574	8.930	0.072	12.73	156	
	9.600	8.922	0.120	15.47	195	
	9.734	8.922	0.128	19.65	476	
10" PS	10.816	10.172	0.072	14.10	107	28,537
	10.850	10.172	0.120	17.08	133	
	10.984	10.172	0.128	21.77	326	
	11.074	10.172	0.140	24.87	519	
12" TS	10.582	11.226	0.072	14.75	95	30,651
	10.582	11.260	0.120	17.89	119	
	10.582	11.394	0.128	22.76	291	
	10.582	11.484	0.140	25.97	464	
12" PS	12.726	12.082	0.072	16.62	65	33,822
	12.760	12.082	0.120	20.13	81	
	12.894	12.082	0.128	25.61	198	
	12.984	12.082	0.140	29.22	316	
14" PS / 16" TS	13.928	13.250	0.120	21.98	62	36,992
	14.062	13.250	0.128	27.95	152	
	14.152	13.250	0.140	31.87	242	
16" PS / 18" TS	15.928	15.250	0.120	24.45	41	38,049
	16.062	15.250	0.128	31.24	101	
	16.152	15.250	0.140	35.70	161	
18" PS / 20" TS	17.750	17.250	0.060	13.49	4	39,106
	17.928	17.250	0.120	26.91	28	
	18.062	17.250	0.128	34.54	70	
	18.152	17.250	0.140	39.53	112	

(1) PS = Pipe Size, TS = Telescope, ENV = Environmental

(2) Based on 0.020" slot opening

(3) No safety factor

(4) Open area & transmitting capacity can be calculated online using Variper's Screen Inflow Calculator at <https://variper.com/resources/calculators/>

(5) Depth Rating (feet below static water level) = Collapse Strength (PSI) x 2.31

(6) Standard material is 304L Stainless Steel, 316L is also available

(7) Slot sizes, lengths & end connections vary

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Size (1)	Outer Diameter	Inner Diameter	Wire Width	Weight (2)	Collapse Strength (2, 3)	Tensile Strength (3)
	mm	mm	mm	kg/m	kg/cm ²	kg
1" PS	34.54	25.65	1.52	1.40	890.8	665
1.1" PS	36.32	27.43	1.52	1.35	749.9	481
1-1/4" PS	40.89	32.00	1.52	1.82	593.8	813
	42.16	29.46	1.52	2.49	528.8	2,266
1-1/2" PS	44.70	35.81	1.52	2.84	330.0	924
	48.26	35.56	1.52	1.85	372.3	2,590
1.6" PS	49.78	40.89	1.52	2.07	260.6	1,035
2" ENV	60.58	51.69	1.52	2.31	137.3	887
2" PS Small	60.71	48.01	1.52	3.57	151.2	3,237
2" PS	69.85	57.15	1.52	3.59	94.8	2,751
3" PS	88.90	76.20	1.52	4.76	43.2	3,884
4" TS	95.25	82.55	1.52	4.61	34.6	3,237
4" PS	114.30	101.60	1.52	5.71	19.3	4,208
	116.08	101.60	2.29	7.66	53.4	
5" TS	120.65	109.73	1.52	4.84	15.9	2,189
	122.43	109.73	2.29	6.89	44.0	
	122.43	107.95	2.29	7.87	45.1	
5" PS / 6" TS	141.10	130.18	1.52	5.62	9.7	2,502
	142.88	130.18	2.29	8.01	27.1	
	142.75	128.27	2.29	9.42	27.7	
	144.63	128.27	1.83	11.35	56.0	
	145.54	128.32	3.05	13.74	69.3	
6" PS	168.15	153.67	2.29	10.78	16.5	5,503
	170.03	153.67	1.83	13.04	33.6	
	170.69	153.47	3.05	15.81	41.8	
8" TS	190.50	176.02	2.29	12.34	11.2	6,474
	192.38	176.02	1.83	14.88	22.8	
	193.04	175.82	3.05	18.08	28.4	
8" PS	218.95	204.47	2.29	14.02	7.2	7,121
	220.83	204.47	1.83	16.92	14.8	
	221.49	204.27	3.05	20.50	18.5	
	224.89	204.27	3.25	26.18	45.1	
10" TS	241.30	226.82	2.29	15.75	5.3	8,416
	243.18	226.82	1.83	18.94	11.0	
	243.84	226.62	3.05	23.02	13.7	
	247.24	226.62	3.25	29.24	33.5	
10" PS	274.73	258.37	1.83	20.98	7.5	8,740
	275.59	258.37	3.05	25.41	9.4	
	278.99	258.37	3.25	32.40	22.9	
	281.28	258.37	3.56	37.02	36.5	
12" TS	268.78	285.14	1.83	21.95	6.7	9,387
	268.78	286.00	3.05	26.62	8.4	
	268.78	289.41	3.25	33.86	20.5	
	268.78	291.69	3.56	38.64	32.6	
12" PS	323.24	306.88	1.83	24.73	4.6	10,358
	324.10	306.88	3.05	29.95	5.7	
	327.51	306.88	3.25	38.11	13.9	
	329.79	306.88	3.56	43.49	22.2	
14" PS / 16" TS	353.77	336.55	3.05	32.71	4.4	16,779
	357.17	336.55	3.25	41.59	10.7	
	359.46	336.55	3.56	47.43	17.0	
16" PS / 18" TS	404.57	387.35	3.05	36.38	2.9	17,259
	407.97	387.35	3.25	46.49	7.1	
	410.26	387.35	3.56	53.13	11.3	
18" PS / 20" TS	450.85	438.15	1.52	20.07	0.3	11,977
	455.37	438.15	3.05	40.05	2.0	
	458.77	438.15	3.25	51.40	4.9	
	461.06	438.15	3.56	58.82	7.9	

(1) PS = Pipe Size, TS = Telescope, ENV = Environmental

(2) Based on 0.508mm slot opening

(3) No safety factor

(4) Open area & transmitting capacity can be calculated online using Variper's Screen Inflow Calculator at <https://variper.com/resources/calculators/>

(5) Depth Rating (meter below static water level) = Collapse Strength (kg/cm²) x 10.02

(6) Standard material is 304L Stainless Steel, 316L is also available

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