

**JOHNSON PVC PRODUCTS:
THE RIGHT SOLUTION**



WHAT YOU NEED—WHEN YOU NEED IT—FOR THE MOST EFFICIENT WELL POSSIBLE

Efficient

Instead of compromising on your next PVC well, design and build it with the screens, casing and fittings required by your unique site conditions. Your ability to specify any desired slot opening instead of choosing from two or three standard sizes ensures a more efficient well.

Long Lasting

Johnson's products are designed and manufactured to standards that are unequalled by any supplier in the industry. This results in a longer lasting well, requiring less maintenance.

Better Designed

To ensure the most efficient use of your time and a quality well, we offer the most experienced and attentive customer service and technical professionals in the business. This provides you with quick and accurate information and support.

On Time And Under Budget

Our rapid delivery is available wherever you are from the most extensive distributor network in the nation, which means you can complete your well on time and under budget.

PVC BECOMES THE MATERIAL OF CHOICE FOR A GROWING NUMBER OF APPLICATIONS

Polyvinyl chloride (PVC) - offers a combination of economy, light weight and design flexibility that makes it a cost-effective solution for:

- Water wells
- Water monitoring wells
- Soil vapor extraction
- Sparging - air or oxygen
- Bioremediation
- Free product recovery
- Groundwater extraction
- Drainage and dewatering
- Leachate collection
- Degassing

PVC is also used when sampling for heavy metals, since it will not leach metals and contaminate the samples. It also has an advantage over steel when encountering corrosive fluids.

Among the fabricating options:

- PVC casing and well screens from 0.50 to 16 inch diameter
- Plain end, flush joint or NPT threaded
- Threaded products supplied in laying lengths
- Slot openings from 0.006 to 0.500 inches
- Environmental products hermetically sealed in plastic
- Round hole perforated pipe from 1.0 to 18.0 inch diameter



We follow the industry's most rigorous manufacturing standards and procedures to ensure the highest quality PVC products available.

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FLUSH THREADED PVC CASING & SLOTTED PIPE SPECIFICATIONS

All Johnson polyvinyl chloride (PVC) Schedule 40 and Schedule 80 screen and pipe products are manufactured from virgin plastic of Type 1, Grade 1, PVC compound with a cell classification of 12454-B per ASTM D1784. Pipe materials are NSF approved for potable water and are in strict compliance with ASTM D1785. To maintain the integrity of the slotting and threading process, the only coolant used is air. Threaded pipe products are manufactured to laying lengths so that when joined together, two coupled pipes are exact lengths of 4, 10, 20 or 40 feet.

All environmental screens and casings, up to 8 inch diameter, are hermetically sealed in polyethylene bags prior to shipment. Environmental screens and casings are shipped in cardboard boxes or skidded and wrapped in plastic with a color-coded label containing a full description of the product and quantities. The label indicates the number of pieces, the diameter of the pipe, and the threads per inch, as well as a graphic representation of the product.

The physical dimensions of the standard PVC pipe products sold by Johnson Screens are presented in the following table:

PHYSICAL DATA FOR COMMON SIZE PIPE

Schedule 40 & 80		Schedule 40			Schedule 80		
Pipe Size (in)	O.D. (in)	Avg I.D. (in)	Min Wall (in)	Nom Wt (lbs/ft)	Avg I.D. (in)	Min Wall (in)	Nom Wt (lbs/ft)
0.50	0.840	0.608	.109	.161	0.528	.147	.202
0.75	1.050	0.810	.113	.214	0.724	.154	.273
1.00	1.315	1.033	.133	.315	0.935	.179	.402
1.25	1.660	1.364	.140	.426	1.256	.191	.554
1.50	1.900	1.592	.145	.509	1.476	.200	.673
2.00	2.375	2.049	.154	.682	1.913	.218	.932
2.50	2.875	2.445	.203	1.076	2.289	.276	1.419
3.00	3.500	3.042	.216	1.409	2.864	.300	1.903
4.00	4.500	4.998	.237	2.006	3.786	.337	2.782
5.00	5.563	5.017	.258	2.726	4.767	.375	3.867
6.00	6.625	6.031	.280	3.535	5.709	.432	5.313
8.00	8.625	7.943	.322	5.305	7.565	.500	8.058
10.00	10.750	9.976	.365	7.532	9.492	.593	11.956
12.00	12.750	11.890	.406	9.949	11.294	.687	16.437
14.00	14.000	13.072	.437	11.810	12.410	.750	19.790
16.00	16.000	14.940	.500	15.416	14.214	.843	25.430



Elevator liner ready to be shipped from Forked River.

STANDARD SCREEN & CASING PRODUCTS

Johnson Screens PVC screen and casing products are provided with flush joint threads on pipe sizes ranging from 0.5 to 16 inch PS diameter. Standard lengths are 2, 5 and 10 feet. Custom lengths up to 20 feet can be provided on request. Laying length is standard for 0.5 through 16 inch diameter schedule 40 PVC. Other sizes are end-to-end length unless specified.

All flush threaded material is supplied with an O-ring except for our 2 & 4 inch diameter screens and casings with 4 TPI. Our environmental product line of threaded screen and casing, ranging in diameter from 0.50 to 8.00 inches is sealed in polyethylene bags prior to shipment to protect the screen from contamination.

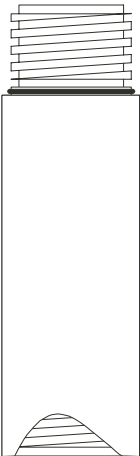
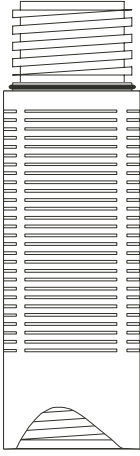
Johnson Screens can customize your screen products and will consider all requests for special pipe lengths, slot sizes, slot spacing and thread types to meet your requirements.

Pipe and screen products available from Johnson include:

- **Slotted screen**
- **PVC Riser**
- **PVC Vee-Pack™**
- **PVC Vee-Wire®**
- **Perforated pipe**
- **Elevator shaft liner**

The following charts present our standard product line for both screen and casing. Lengths are measured shoulder to shoulder, and do not include the male thread length:

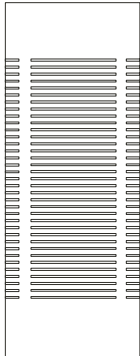

SCHEDULES 40 & 80 THREADED PVC CASING & SLOTTED SCREEN PRODUCTS

DIA	LENGTHS				SCH 40 & 80 Threads/Inch			SCH 40 SLOT WIDTHS	SCH 80 SLOT WIDTHS	SLOT SPACING				
	Inches	2 ft	5 ft	10 ft	20 ft	2 TPI	4 TPI	8 TPI	Inches	Inches	1/8"	3/16"	1/4"	3/8"
0.5	X	X	X				X	.006 - .020	.006 - .020		X			
0.75	X	X	X				X	.006 - .020	.006 - .020		X			
1	X	X	X				X	.006 - .125	.006 - .125		X			
1.25	X	X	X				X	.006 - .125	.006 - .125		X			
1.5	X	X	X				X	.006 - .125	.006 - .125		X			
2	X	X	X			X	XX	.006 - .250	.008 - .250		X			
2" Hi Flow	X	X	X			X		.010 - .060	.010 - .060	X	X			
2.5	X	X	X			X		.006 - .250	.010 - .250		X			
3	X	X	X			X		.006 - .250	.010 - .250		X			
4	X	X	X	X		X	XX	.006 - .250	.010 - .250		X	X		
4" Hi Flow	X	X	X	X		X		.010 - .060	.010 - .060	X	X			
5	X	X	X	X		X		.010 - .250	.020 - .500				X	
6	X	X	X	X		X		.010 - .500	.020 - .500				X	X
8	X	X	X	X		X		.010 - .500	.030 - .500				X	X
10	X	X	X	X		X		.020 - .500	.040 - .500				X	X
12	X	X	X	X		X		.020 - .500	.050 - .500				X	X
14	X	X	X	X		X		.050 - .500	.050 - .500				X	X
16	X	X	X	X		X		.050 - .500	.060 - .500				X	X

Note: XX indicates no O-ring on SCH 40 4 TPI.

SCHEDULE 40 PLAIN END & BELLED PVC SLOTTED SCREEN PRODUCTS

DIA	LENGTHS		SLOT WIDTHS	SLOT SPACING		
	10 ft	20 ft	Inches	3/16"	1/4"	3/8"
1.25	Std		.006 - .125	X		
1.50	Std		.006 - .125	X		
2.00	Std		.006 - .250	X		
3.00	Std		.006 - .250	X		
4.00	Std	Std	.006 - .250	X	X	
6.00	Std	Std	.010 - .500	X	X	X
8.00	Std	Std	.010 - .500		X	X
10.00	Std	Std	.020 - .500		X	X
12.00	Std	Std	.020 - .500		X	X
14.00	Std	Std	.050 - .500		X	X
16.00	Std	Std	.050 - .500		X	X

PRESSURE AND STRENGTH CONSIDERATIONS

Under static conditions, head pressure exerted on a casing assembly by the water column is equalized inside and outside of the assembly. As the water level inside the casing is lowered, the assembly is subjected to hydrostatic-pressure differential. The casing or screen experiences 1.0 psi of force for every 2.31 feet of head differential between the inside and outside water level, so a water column differential of 231 feet would exert a pressure of 100 psi at the base of a casing assembly.

Consideration should also be taken where drilling fluid additives and cuttings are involved in well construction. Additives and cuttings can increase fluid density as much as 20% in unit weight, as the density of fresh water increases from 8.3 lbs/gal to about 10.0 lbs/gal when drilling mud is used.

Cement slurries typically weigh 13 – 15 lbs/gal which increases fluid density by 55% - 80% over that of fresh water. Potential casing assembly failure can occur if the hydrostatic pressure differential approaches the rated collapse pressure of the casing.

In addition to the hydrostatic pressure differential, the force exerted against a PVC well assembly during the dumping or installation of a filter media into the outside annular space should also be considered.

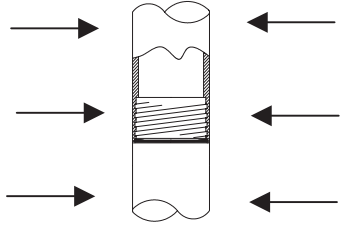

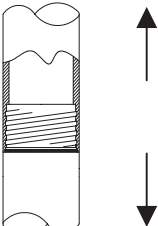
During well development, care should be taken when using a tight fitting surge block. Vigorous use during development operations of a tight fitting surge block could exceed the burst pressure criteria of a PVC well assembly.

TEMPERATURE DE-RATING TABLE

Curing of cement and grout generates sufficient heat to affect PVC strength and performance. When operating at elevated temperatures, the actual values for Collapse Pressure, Burst Pressure (Working Pressure), and Tensile Strength will be de-rated according to the chart at right.

Operating Temp. (°F / °C)	Strength De-Rating Factor
73 / 23	1.00
80 / 27	0.88
90 / 32	0.75
100 / 38	0.62
110 / 44	0.51
120 / 49	0.40
130 / 54	0.31
140 / 60	0.22

PVC PRESSURE AND STRENGTH TABLES

COLLAPSE PRESSURE	BURST PRESSURE	TENSILE STRENGTH
Pounds per square inch of external hydrostatic pressure that can be safely applied.	Pounds per square inch of internal hydrostatic pressure that can be safely applied.	The suspended weight the threaded joint can sustain in a vertical position without causing stretching or failure.
		

Testing methods and procedures used are in compliance with ASTM F480 standards for thermoplastic pipe in all applicable areas.

Pipe Size	Collapse Pressure (psi)*		Burst Pressure (psi)*		Tensile Strength (lb)**	
	Sch. 40	Sch. 80	Sch. 40	Sch. 80	Sch. 40	Sch. 80
0.50"	1,100	2,700	300	425	264	344
0.75"	630	1,590	240	345	362	487
1.00"	520	1,270	225	315	581	727
1.25"	300	770	185	260	859	878
1.50"	220	590	165	235	954	1,225
2.00"	140	390	140	200	942	1,542
2.50"	180	450	150	210	2,093	2,890
3.00"	120	320	130	185	2,786	3,839
4.00"	70	210	110	160	4,119	5,823
5.00"	50	150	95	145	5,491	6,864
6.00"	40	140	90	140	7,165	11,384
8.00"	30	100	80	125	10,387	17,332
10.00"	20	85	70	115	15,086	25,124
12.00"	16	80	65	115	19,548	34,430
14.00"	15	80	65	110	20,894	37,651
16.00"	15	70	65	110	26,864	48,033

Notes:

1. Values noted with an asterisk (*) are based on minimum wall & include a 50% safety factor.
2. Values noted with a double asterisk (**) are recommended dry hanging weights for threaded PVC schedules 40 & 80. These values are calculated based on the minimum cross sectional area of either the box or pin thread portion of the joint after machining. The resulting minimal area was multiplied by 7,000 psi tensile strength per ASTM D-1784 to yield the recommended dry hanging weight. Even though these calculated values are lower than actual Johnson Screens test data, Johnson recommends not to exceed the above values for well construction.

The following tables represent the standard open area and transmitting capacity of the Johnson slotted PVC well screen. All calculations are based on the **inside diameter** of the pipe which represents the most accurate area and transmitting potential of the screen.

The data presented in these tables is for our standard product line. If you have specifications not covered by the data presented in these tables, contact us for our assistance in designing a custom well screen to meet your needs.

PVC SCREEN OPEN AREA – SCHEDULES 40 & 80

PVC SCHEDULE 40 SCREEN OPEN AREA - STD CONSTRUCTION												
		Square inches/Foot										
Pipe Size (inches)	Slot Spacing (inches)	Standard Slot Opening (inches)										
		0.010	0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.100	0.125	
1/2	3/16	0.76	1.11	1.45								
3/4	3/16	0.84	1.22	1.59								
1	3/16	1.14	1.67	2.17	2.65	3.10	3.96	4.74	5.45	7.83	9.00	
1-1/4	3/16	1.71	2.50	3.25	3.97	4.66	5.93	7.11	8.18	11.74	13.50	
1-1/2	3/16	2.05	3.00	3.90	4.24	4.97	6.33	7.58	8.73	12.52	14.40	
2	3/16	2.51	4.00	5.20	6.35	7.45	9.49	11.37	13.09	18.78	21.60	
2 Hi Flow	1/8	3.56	5.14	6.62	8.00	9.29						
2-1/2	3/16	2.89	4.22	5.49	6.00	7.03	8.97	10.74	12.36	17.74	20.40	
3	3/16	3.19	4.67	6.07	8.47	9.93	12.66	15.16	17.45	25.04	28.80	
4	1/4	3.12	4.58	6.33	7.77	9.16	11.79	14.25	16.55	24.43	28.50	
4 Hi Flow	1/8	6.00	8.68	11.17	13.50	15.68						
5	1/4	3.29	4.84	7.00	8.59	10.13	13.03	15.75	18.29	27.00	31.50	
6	1/4	3.23	8.15	10.67	13.09	15.43	19.86	24.00	27.87	41.14	48.00	
8	1/4	4.33	9.21	12.06	14.80	17.44	22.45	27.13	31.50	46.50	54.25	
10	1/4			14.22	17.45	20.57	26.48	32.00	37.16	54.86	64.00	
12	1/4			18.33	22.50	26.52	34.14	41.25	47.90	70.71	82.50	
14	1/4							50.00	58.06	85.71	100.00	
16	1/4							51.25	59.50	87.86	102.50	

PVC SCHEDULE 80 SCREEN OPEN AREA - STD CONSTRUCTION												
		Square inches/Foot										
Pipe Size (inches)	Slot Spacing (inches)	Standard Slot Opening (inches)										
		0.010	0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.100	0.125	
1/2	3/16	0.61	0.89	1.16								
3/4	3/16	0.65	0.94	1.23								
1	3/16	0.91	1.33	1.73	2.12	2.48	3.16	3.79	4.36	6.26	7.20	
1-1/4	3/16	1.48	2.17	2.82	3.18	3.72	4.75	5.68	6.55	9.39	10.80	
1-1/2	3/16	1.48	2.17	2.82	3.18	3.72	4.75	5.68	6.55	9.39	10.80	
2	3/16	2.16	3.17	4.12	5.56	6.52	8.31	9.95	11.45	16.43	18.90	
2 Hi Flow	1/8	2.89	4.18	5.38								
2-1/2	3/16	2.43	3.56	4.63	5.29	6.21	7.91	9.47	10.91	15.65	18.00	
3	3/16	2.73	4.00	5.20	7.41	8.69	11.08	13.26	15.27	21.91	25.20	
4	1/4	2.42	3.57	6.00	7.36	8.68	11.17	13.50	15.68	23.14	27.00	
4 Hi Flow	1/8	4.67	6.75	7.45	9.00	10.45						
5	1/4			8.00	9.82	11.57	14.90	18.00	20.90	30.86	36.00	
6	1/4			9.00	11.05	13.02	16.76	20.25	23.52	34.71	40.50	
8	1/4					12.94	16.66	20.13	23.37	34.50	40.25	
10	1/4						20.69	25.00	29.03	42.86	50.00	
12	3/8							30.35	35.59	54.32	64.50	
14	3/8							28.94	33.93	51.79	61.50	
16	3/8								37.24	56.84	67.50	

PVC SCREEN PERCENT OPEN AREA – SCHEDULES 40 & 80

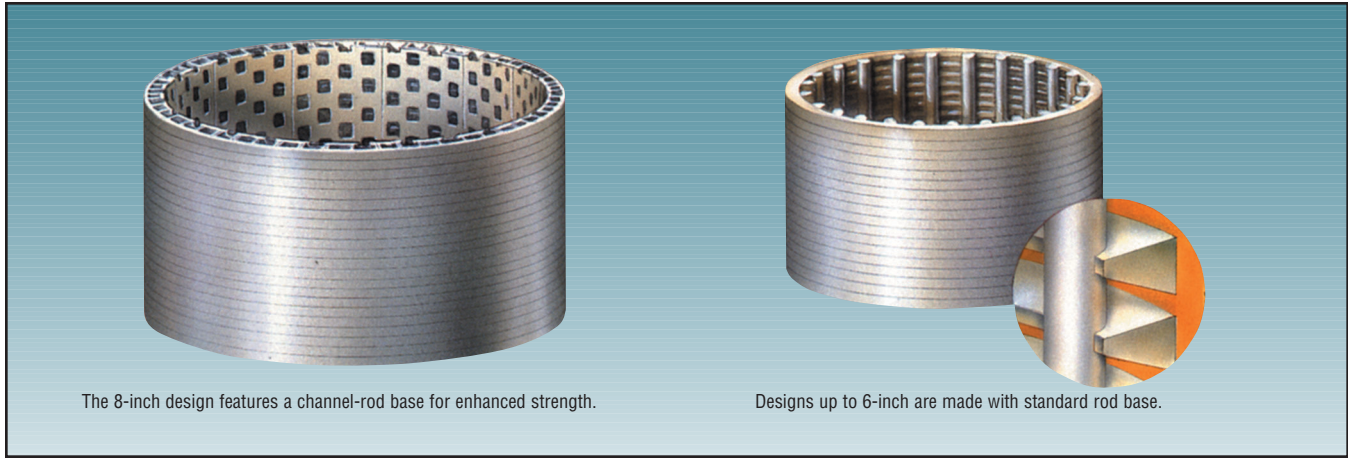
PVC SCHEDULE 40 SCREEN % OPEN AREA - STD CONSTRUCTION											
		Percent Open Area									
Pipe Size (inches)	Slot Spacing (inches)	Standard Slot Opening (inches)									
		0.010	0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.100	0.125
1/2	3/16	3.32	4.84	6.33							
3/4	3/16	2.75	4.00	5.21							
1	3/16	2.93	4.29	5.57	6.80	7.96	10.17	12.17	13.99	20.11	23.11
1-1/4	3/16	3.33	4.86	6.32	7.72	9.06	11.53	13.83	15.91	22.83	26.25
1-1/2	3/16	3.42	5.00	6.50	7.06	8.28	10.55	12.63	14.55	20.86	23.99
2	3/16	3.25	5.18	6.73	8.22	9.64	12.29	14.72	16.95	24.31	27.96
2 Hi Flow	1/8	4.61	6.65	8.57	10.36	12.03					
2-1/2	3/16	3.14	4.58	5.96	6.51	7.63	9.73	11.65	13.41	19.25	22.13
3	3/16	2.78	4.07	5.29	7.39	8.66	11.04	13.22	15.22	21.83	25.11
4	1/4	2.07	3.04	4.20	5.16	6.08	7.82	9.45	10.98	16.21	18.91
4 Hi Flow	1/8	3.98	5.76	7.41	8.96	10.40					
5	1/4	1.74	2.56	3.70	4.54	5.36	6.89	8.33	9.67	14.28	16.65
6	1/4	1.42	3.58	4.69	5.76	6.79	8.73	10.56	12.26	18.09	21.11
8	1/4	1.45	3.08	4.03	4.94	5.82	7.50	9.06	10.52	15.53	18.12
10	1/4			3.78	4.64	5.47	7.04	8.51	9.88	14.59	17.02
12	1/4			4.09	5.02	5.92	7.62	9.20	10.69	15.77	18.41
14	1/4							10.15	11.78	17.39	20.29
16	1/4							9.10	10.50	15.60	18.20

PVC SCHEDULE 80 SCREEN % OPEN AREA - STD CONSTRUCTION											
		Percent Open Area									
Pipe Size (inches)	Slot Spacing (inches)	Standard Slot Opening (inches)									
		0.010	0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.100	0.125
1/2	3/16	3.05	4.45	5.81							
3/4	3/16	2.38	3.44	4.51							
1	3/16	2.58	3.77	4.91	6.01	7.04	8.96	10.75		17.76	20.43
1-1/4	3/16	3.13	4.58	5.96	6.72	7.86	10.03	12.00	13.83	19.83	22.81
1-1/2	3/16	2.66	3.90	5.07	5.71	6.69	8.54	10.21	11.77	16.88	19.41
2	3/16	3.00	4.40	5.71	7.71	9.04	11.52	13.80	15.88	22.78	26.21
2 Hi Flow	1/8	4.01	5.80	7.46							
2-1/2	3/16	2.82	4.13	5.37	6.13	7.20	9.17	10.97	12.64	18.14	20.86
3	3/16	2.53	3.70	4.82	6.86	8.05	10.26	12.28	14.14	20.29	23.34
4	1/4	1.70	2.50	4.20	5.16	6.08	7.83	9.46	10.99	16.21	18.92
4 Hi Flow	1/8	3.27	4.73	5.22	6.31	7.32					
5	1/4			4.45	5.46	6.44	8.29	10.02	11.63	17.17	20.03
6	1/4			4.18	5.13	6.05	7.79	9.41	10.93	16.13	18.82
8	1/4					4.54	5.84	7.06	8.19	12.10	14.11
10	1/4						5.78	6.99	8.11	11.98	13.97
12	3/8							7.13	8.36	12.76	15.15
14	3/8							6.19	7.25	11.07	13.15
16	3/8								6.95	10.61	12.60

PVC SCREEN TRANSMITTING CAPACITY – SCHEDULES 40 & 80

PVC SCHEDULE 40 SCREEN TRANSMITTING CAPACITY - STD CONSTRUCTION											
Transmitting Capacity (Gallons per Minute per Foot)											
Pipe Size (inches)	Slot Spacing (inches)	Standard Slot Opening (inches)									
		0.010	0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.100	0.125
1/2	3/16	0.24	0.34	0.45							
3/4	3/16	0.26	0.38	0.49							
1	3/16	0.35	0.52	0.67	0.82	0.96	1.23	1.47	1.69	2.43	2.79
1-1/4	3/16	0.53	0.78	1.01	1.23	1.44	1.84	2.20	2.54	3.64	4.19
1-1/2	3/16	0.64	0.93	1.21	1.31	1.54	1.96	2.35	2.71	3.88	4.46
2	3/16	0.78	1.24	1.61	1.97	2.31	2.94	3.52	4.06	5.82	6.70
2 Hi Flow	1/8	1.10	1.59	2.05	2.48	2.88					
2-1/2	3/16	0.90	1.31	1.70	1.86	2.18	2.78	3.33	3.83	5.50	6.32
3	3/16	0.99	1.45	1.88	2.63	3.08	3.92	4.70	5.41	7.76	8.93
4	1/4	0.97	1.42	1.96	2.41	2.84	3.65	4.42	5.13	7.57	8.84
4 Hi Flow	1/8	1.86	2.69	3.46	4.19	4.86					
5	1/4	1.02	1.50	2.17	2.66	3.14	4.04	4.88	5.67	8.37	9.77
6	1/4	1.00	2.53	3.31	4.06	4.78	6.16	7.44	8.64	12.75	14.88
8	1/4	1.34	2.86	3.74	4.59	5.41	6.96	8.41	9.77	14.42	16.82
10	1/4			4.41	5.41	6.38	8.21	9.92	11.52	17.01	19.84
12	1/4			5.68	6.98	8.22	10.58	12.79	14.85	21.92	25.58
14	1/4							15.50	18.00	26.57	31.00
16	1/4							15.89	18.44	27.24	31.78

PVC SCHEDULE 80 SCREEN TRANSMITTING CAPACITY - STD CONSTRUCTION											
Transmitting Capacity (Gallons per Minute per Foot)											
Pipe Size (inches)	Slot Spacing (inches)	Standard Slot Opening (inches)									
		0.010	0.015	0.020	0.025	0.030	0.040	0.050	0.060	0.100	0.125
1/2	3/16	0.19	0.28	0.36							
3/4	3/16	0.20	0.29	0.38							
1	3/16	0.28	0.41	0.54	0.66	0.77	0.98	1.17	1.35	1.94	2.23
1-1/4	3/16	0.46	0.67	0.87	0.99	1.15	1.47	1.76	2.03	2.91	3.35
1-1/2	3/16	0.46	0.67	0.87	0.99	1.15	1.47	1.76	2.03	2.91	3.35
2	3/16	0.67	0.98	1.28	1.72	2.02	2.58	3.08	3.55	5.09	5.86
2 Hi Flow	1/8	0.90	1.30	1.67							
2-1/2	3/16	0.75	1.10	1.44	1.64	1.93	2.45	2.94	3.38	4.85	5.58
3	3/16	0.85	1.24	1.61	2.30	2.69	3.43	4.11	4.73	6.79	7.81
4	1/4	0.75	1.11	1.86	2.28	2.69	3.46	4.19	4.86	7.17	8.37
4 Hi Flow	1/8	1.45	2.09	2.31	2.79	3.24					
5	1/4			2.48	3.04	3.59	4.62	5.58	6.48	9.57	11.16
6	1/4			2.79	3.43	4.04	5.20	6.28	7.29	10.76	12.56
8	1/4					4.01	5.16	6.24	7.24	10.70	12.48
10	1/4						6.41	7.75	9.00	13.29	15.50
12	3/8							9.41	11.03	16.84	20.00
14	3/8							8.97	10.52	16.05	19.07
16	3/8								11.54	17.62	20.93



PVC VEE-WIRE® SCREENS

Commonly used in shallow wells, Johnson Screen's proprietary, sonic-welded PVC Vee-Wire® screens present higher open area for given slot size than any other non-metallic screen available. More economical than metal screens, PVC Vee-Wire screens resist corrosion from salts and gases

commonly found in either salt or fresh water, and they may be treated repeatedly with hydrochloric acid or Johnson's Nu-Well® pellets to remove incrustations. PVC screens are furnished with F480 flush threads or plain ends for connecting to standard PVC fittings.

SIZE (INCHES)	NOMINAL O.D. (INCHES)	DIAMETER I.D. (INCHES)(1)	WEIGHT/FT LBS	TENSIL STRENGTH LBS (2)	HANG WEIGHT LBS (4)	OPEN AREA (SQ INCHES) PER FOOT OF SCREEN COLLAPSE STRENGTH - PSI (3)					
						SCREEN SLOT SIZE (INCHES)					
						0.006	0.010	0.020	0.030	0.040	0.050
1 - 1/4 PS	1.66	1.12	0.7	780	195	3.0	4.8	8.9	12.5	15.6	18.4
						269	261	242	226	212	199
1- 1/2 PS	1.90	1.41	0.8	1245	310	3.4	5.5	10.2	14.3	17.9	21.0
						181	175	163	152	143	134
2P/3T	2.37	1.88	0.8	1325	330	4.2	6.9	12.8	17.8	22.3	26.3
						95	92	85	79	74	70
2 PS*	2.60	2.00	0.9	1325	330	4.6	7.5	14.0	19.6	24.5	28.8
						72	70	65	61	57	54
3 PS	3.50	2.89	1.5	1820	455	5.4	8.8	16.5	23.3	29.3	34.7
						169	164	154	145	137	130
4 Special	4.50	3.81	1.7	2100	525	6.9	11.3	21.2	30.0	37.7	44.6
						81	78	74	69	65	62
4 PS*	4.62	4.00	1.8	2100	52	7.1	11.6	21.8	30.7	38.7	45.8
						75	73	68	64	60	57
5 PS	5.56	4.81	2.5	3920	980	8.1	13.1	24.6	34.9	44.1	52.4
						73	72	68	65	62	59
6 PS	6.61	5.75	3.7	4600	1150	8.0	13.1	24.9	35.6	45.3	54.2
						73	72	68	65	62	59
8 PS	8.62	7.50	4.6	5500	1375	13.3	21.6	40.6	57.3	72.2	85.5
						60	59	55	52	49	46

(1) Clear ID's are minimum inside diameters

(2) Tensile values are based on support rod area, other values are based on flush-thread test values

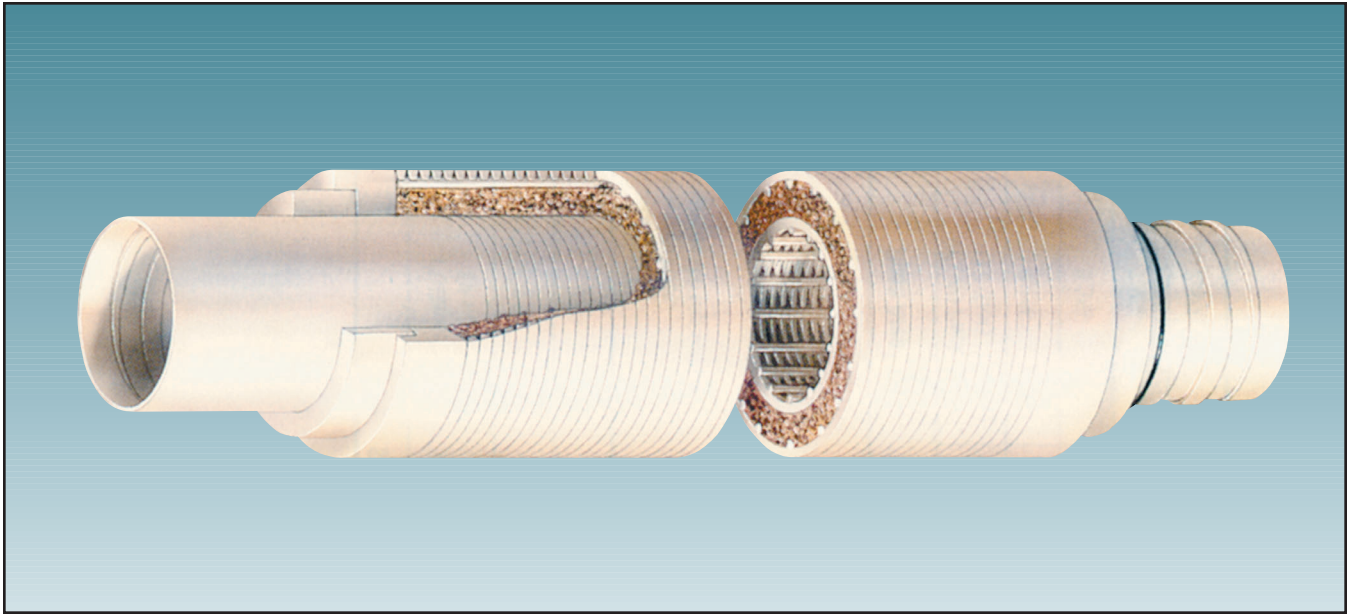
(3) Collapse strengths are calculated values - no safety factor included

(4) Hang weights are the maximum combined weight of riser and screen to be hung from the top screen joint

(5) Schedule 40 & 80 flush threads available

All strength properties are based on 73° F temperature

*Alternate construction for environmental applications



VEE-PACK™ PVC PRE-PACKED SCREENS

Some subsurface conditions such as heaving, caving, silty sand make conventional gravel pack placement difficult or impossible. The solution is Johnson Screens' Vee-Pack™ screen. Vee-Pack contains an integral gravel pack held in place between two concentric screens. This assembly is then installed in a single operation.

STANDARD FEATURES

- Allows smaller borehole to be drilled
- Reduces cuttings disposal
- Factory-installed resieved silica sand filter pack is uniform and without voids
- Fine-grade pack allows sediment-free sampling
- High screen open area
- Sonic-welded construction eliminates solvents which can affect sample integrity
- ASTM F480 flush threads and Buna-N O-ring provide leak-proof joints
- Schedule 40 & 80 flush threads available
- Thread-on points ease installation in heaving sands
- Shipped sealed in a polyethylene bag to exclude contaminants
- VITON O-rings for special applications

VEE-PACK™ PVC PRE-PACKED SCREENS



Carefully placed filter pack is 100% void-free.

VEE-PACK SPECIFICATIONS									
PIPE SIZE	DIAMETER		STANDARD LENGTH ^b (FT)	OPEN AREA (SQ. IN./FT.) ^c			STRENGTH ^d		
	O.D. (IN)	I.D. ^a (IN)		40x60 PACK (8-Slot)	20x40 PACK (12-Slot)	10x20 PACK (20-Slot)	COLLAPSE ^e (PSI)	TENSILE ^e (LBS)	HANGING ^f WT (LBS)
2 INCH	3.63	2.00	2.5, 5, 10	6.0	8.9	14.0	250	1,100	425
4 INCH	5.67	4.00	2.5, 5, 10	9.3	13.8	21.7	150	1,600	525

- a. Clear I.D.s are dimensions with fittings attached
- b. Lengths are measured shoulder-to-shoulder
- c. Open areas and collapse are based on inner screen
- d. Strength properties are established at 73° F
- e. Tensile is based on area of inner screen rods
- f. Hanging weight is maximum weight on the top screen

PIPE SIZE	PVC PRE-PACKED PRODUCT	OPEN AREA ^a		
		40x60 PACK (8-Slot)	20x40 PACK (12-Slot)	10x20 PACK (20-Slot)
2 INCH	Vee-Pack	6.3%	9.1%	14.3%
	Slotted	1.8%	2.3%	5.8%
4 INCH	Vee-Pack	5.4%	7.9%	12.5%
	Slotted	1.9%	2.8%	4.5%

- a. Based on the open area of the inner screen - for slotted products, assumes slots at 1/4" nominal spacing.

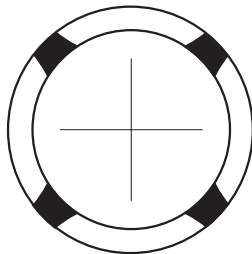
SLOTTING INFORMATION

TYPICAL SLOT WIDTHS



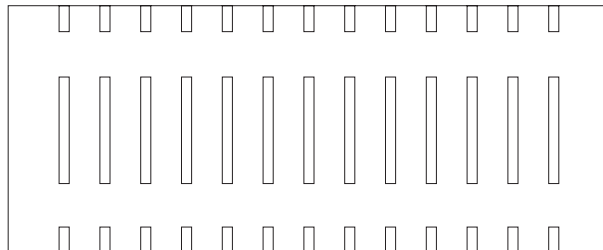
Slot widths shown are approximate—not to scale.

EXAMPLE (# OF ROWS)



4 ROWS 90
DEGREES APART

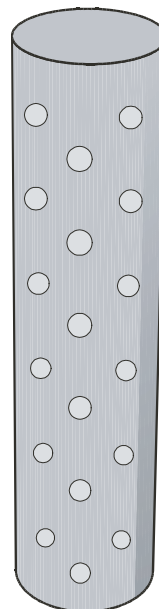
SLOT SPACING



PERFORATED PIPE

Successful leachate or drainage applications require that PVC products used in flow collection have perforation patterns matched to the specific site conditions. Our engineers help you determine the spacing and size of the perforations which gives you the best flow collection while retaining the landfill or earthen materials.

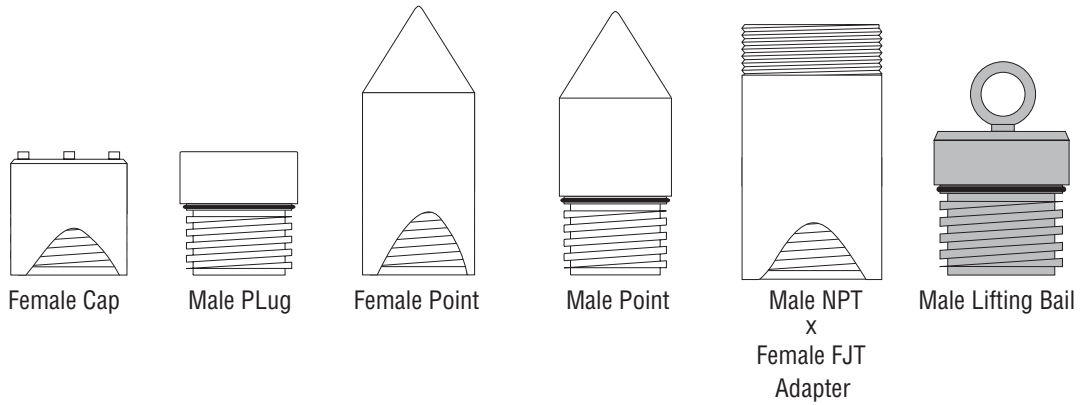
- 1" to 18" Diameter
- Up to 50' Length
- Plain End x Plain End, Belled, or Threaded
- PVC, CPVC, and HDPE (all schedules and SDR's)
- 1/16" to 1" Diameter Holes
- 8 Row maximum, Staggered or Non Staggered Patterns



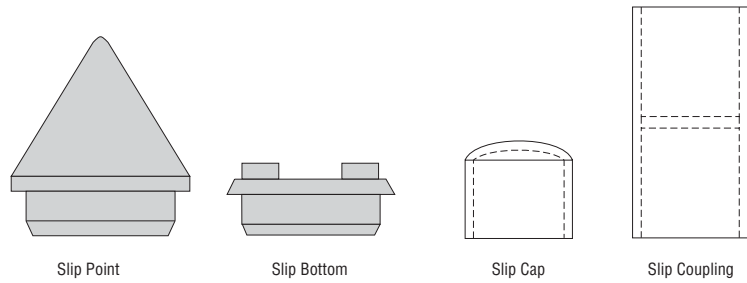
PVC FITTINGS & ADAPTERS

We offer a wide range of PVC fittings and adapters for use with our well screens. These items include both Schedule 40 and 80 male plugs, female

caps, male & female points, male & female lifting bails, as well as several slip fittings.



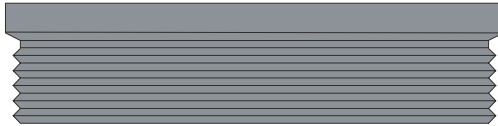
SCHEDULE 40 SLIP FITTINGS



Dia.	Plugs/Caps	Points	Adapters	Lifting Bail	Slip Point	Slip Bottom	Slip Cap	Slip Coupling
0.50"	Sch. 40 & 80	Sch. 40 & 80	Sch. 40 & 80		Sch. 40		Sch. 40	Sch. 40
0.75"	Sch. 40 & 80	Sch. 40 & 80	Sch. 40 & 80		Sch. 40		Sch. 40	Sch. 40
1.00"	Sch. 40 & 80	Sch. 40 & 80	Sch. 40 & 80		Sch. 40	Sch. 40	Sch. 40	Sch. 40
1.25"	Sch. 40 & 80	Sch. 40 & 80	Sch. 40 & 80		Sch. 40	Sch. 40	Sch. 40	Sch. 40
1.50"	Sch. 40 & 80	Sch. 40 & 80	Sch. 40 & 80		Sch. 40	Sch. 40	Sch. 40	Sch. 40
2.00"	Sch. 40 & 80	Sch. 40 & 80	Sch. 40 & 80	Sch. 40 & 80	Sch. 40	Sch. 40	Sch. 40	Sch. 40
3.00"	Sch. 40 & 80	Sch. 40 & 80	Sch. 40 & 80	Sch. 40 & 80	Sch. 40	Sch. 40	Sch. 40	Sch. 40
4.00"	Sch. 40 & 80	Sch. 40 & 80	Sch. 40 & 80	Sch. 40 & 80	Sch. 40	Sch. 40	Sch. 40	Sch. 40
5.00"	Sch. 40 & 80		Sch. 40 & 80	Sch. 40 & 80			Sch. 40	Sch. 40
6.00"	Sch. 40 & 80		Sch. 40 & 80	Sch. 40 & 80			Sch. 40	Sch. 40
8.00"	Sch. 40 & 80		Sch. 40 & 80	Sch. 40 & 80			Sch. 40	Sch. 40
10.00"	Sch. 40 & 80		Sch. 40 & 80	Sch. 40 & 80			Sch. 40	Sch. 40
12.00"	Sch. 40 & 80		Sch. 40 & 80	Sch. 40 & 80			Sch. 40	Sch. 40
14.00"	Sch. 40 & 80		Sch. 40 & 80	Sch. 40 & 80			Sch. 40	Sch. 40
16.00"	Sch. 40 & 80		Sch. 40 & 80	Sch. 40 & 80			Sch. 40	Sch. 40

HDPE HOLLOW STEM AUGER PLUGS

Strong, side-ribbed style auger plug machined from solid high density polyethylene (HDPE) stock provides simple and easy installation and will not fall out until you knock it out.

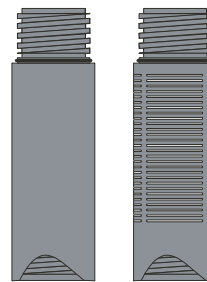


Dia.
2-1/4"
3-1/4"
3-3/4"
4-1/4"
4-3/8"
6-1/4"
6-5/8"
8-1/4"
10-1/4"
12-1/4"

HIGH DENSITY POLYETHYLENE (HDPE) SCREEN AND CASING

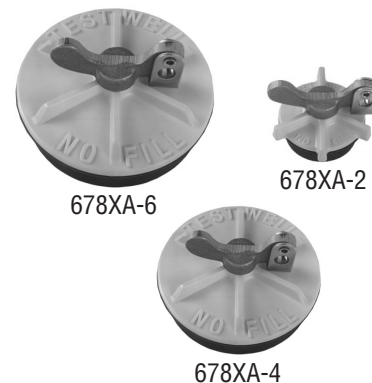
Johnson Screens offers threaded HDPE Screen and Casing for shallow depth wells where PVC is not compatible with the groundwater contaminants. Caps and Plugs are also available.

Size	2'	5'	10'	Slot Size	Threads
1" SDR11	X	X	X	.020"-.125"	1" S/40 F-480 8TPI
2" SDR11	X	X	X	.020"-.125"	4 TPI
4" SDR17	X	X	X	.020"-.125"	4 TPI



MORRISON LOCKING PLUGS

Heavy duty bright orange Locking Plugs constructed of glass-filled nylon plastic are placed inside the well casing to prevent unauthorized access to the monitoring well. As the Brass wing-bolt is tightened, a Buna-N gasket seal expands against the casing wall to seal the well. Each size will accommodate an optional #3 padlock. 2", 4", and 6" diameter plugs fit Schedule 40 PVC or steel pipe. Each unit comes individually boxed.



STAINLESS STEEL CENTRALIZERS

“High Strength Worm Drive” Centralizers. No nut to lose or drop down the well. Can be assembled with a nut driver, screwdriver, wrench or socket. 100% stainless steel. They provide a lower profile than a “t-bolt” type centralizer.

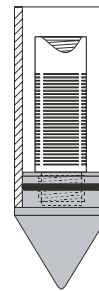
Size	Hole Adjustment	Weight
2.00"	2" Up To 12"	0.5 lbs
4.00"	4" Up To 16"	0.8 lbs
6.00"	6" Up To 18"	1.0 lbs

Other sizes available from 1" thru 16" pipe size and HEAVY DUTY 4" thru 16" pipe size.



PVC SOIL TESTING POINTS

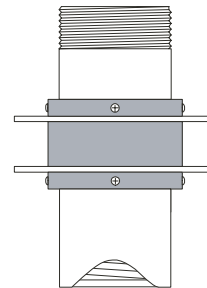
Johnson PVC soil testing points are machined from solid bar stock and fitted with an O-ring to prevent the point from slipping off the end of the Drive Casing. We provide these test points in a 2" O.D. with either a 0.75" or 1.00" inner FJT thread.



PVC SURGE BLOCKS

Johnson PVC Surge Blocks are used in well rehabilitation or well development. These units come standard with a Female FJT Thread on one end and a Male NPT Thread on the other end. They are constructed of PVC and HDPE and designed to fit the I.D. of Schedule 40 PVC pipe.

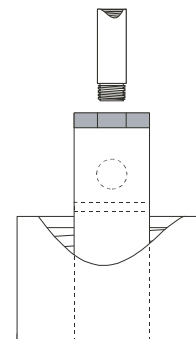
I.D.	Schedule	Pipe Ends
2"	40	1" Male NPT x Female 8TPI
4"	40	1-1/4" Male NPT x Female 4TPI
6"	40	2" Male NPT x Female 2TPI
8"	40	4" Male NPT x Female 2TPI



GROUTING CAPS

Our Grouting Cap comes complete with a 1" Schedule 40 PVC Female F480 x Left Hand Adapter for easy removal when check ball seals off and grouting is complete. Grouting Caps are available for 4" through 12" Schedule 40 F480 Pipe.


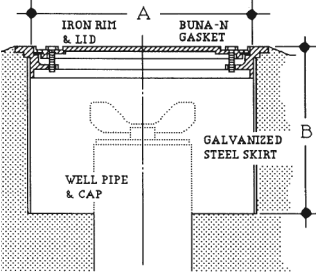
Model	Fits Pipe Size	Grouting Pipe
GC-4	4" S/40	1" S/40
GC-5	5" S/40	1" S/40
GC-6	6" S/40	1" S/40
GC-8	8" S/40	1" S/40
GC-10	10" S/40	1" S/40
GC-12	12" S/40	1" S/40



MORRISON LIMITED ACCESS TEST WELL MANHOLES

The 418XA has a cast iron lid and rim, replaceable Buna-N gasket, galvanized sheet metal skirt, and stainless steel bolts. Lugs on the inside of the body rim are threaded for bolts to draw lid down tight. Bolted cover provides weathertight seal and "limited access" feature. The 418XAP has a painted cover. The 418XAS has a steel cover and is available in

8" x 12" and 12" x 12" sizes. The 418XAH has a 14-gauge heavy skirt and nylon washers, available in 9" x 7" and 9" x 12" sizes. The official API warning emblem is permanently embedded on the surface of the lid. Each unit comes individually boxed. All Morrison manholes meet AASHTO standard for H-20 truck loadings.


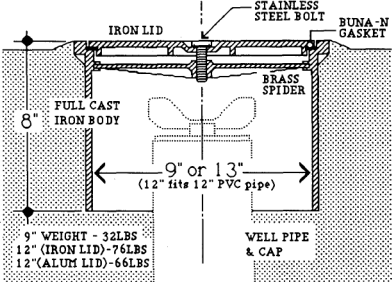
	418XA, 418XAP, 418XAS, AND 418XAH	Size	Weight	A	B	
	7" x 10"	8 lbs	7"	10"		
	8" x 8"	12 lbs	8"	8"		
	8" x 12"	15 lbs	8"	12"		
	9" x 7"	17 lbs	9"	7"		
	9" x 12"	20 lbs	9"	12"		
	12" x 7"	29 lbs	12"	7"		
	12" x 12"	30 lbs	12"	12"		
	18" x 12"	75 lbs	18"	12"		
18" x 18"	78 lbs	18"	18"			

MORRISON WATER TIGHT MANHOLES

The 519 Series consists of a full-cast, one-piece iron body and skirt, cast iron lid, brass spider, replaceable Buna-N gasket, and stainless steel bolt. This series is watertight and includes a special O-ring seal for the bolt. The words "TEST WELL" are cast into the lid and a black and white decal (official API warning) is permanently embedded on the surface.

A single stainless steel bolt, for limited access, remains attached to the cover when the cover is removed. A brass spider holds the cover uniformly

to aid in sealing the lid. The combination of brass and stainless prevents corrosion. As with the 418XA model, the cover of the 519 is machined to allow replacement of the Buna-N seal without tools or adhesives. Each unit comes with a wrench and is individually boxed. A removable brass label plate is attached to the rim to allow for well identification. All Morrison manholes meet AASHTO standard for H-20 truck loadings.

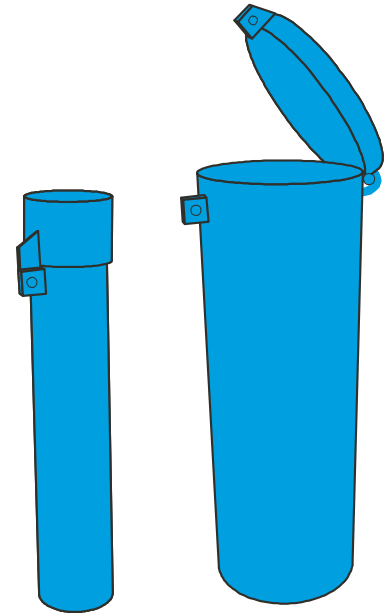
	519 Water Tight Access Manhole	Diameter	Length	Weight	
	9.00"	8.00"	32.0 lbs		
	12.00" (iron lid)	8.00"	76.0 lbs		
12.00" (alum lid)	8.00"	66.0 lbs			

LOCKING STEEL WELL PROTECTORS

Johnson Screens provides a compliment of steel well protectors with precisely aligned tabs for easy locking. Made from heavy gauge steel, our slip over construction provides protection against tampering, contamination, and inclement weather. Padlocks are sold separately.

STEEL WELL PROTECTORS

Our protectors come complete with a vinyl tag for recording specific well information such as permit numbers, casing elevation, installation date, well number, contractor's identification, well diameter, screen interval, well depth, static water level, and gallons per minute output. The unique hinge design on the 660 and 860 will not rust or bind. They come painted blue and accept optional padlock for security.



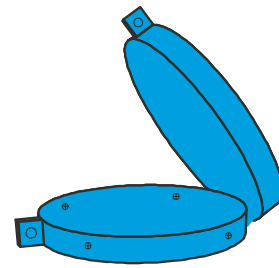
460WP
Slip over Lid

660WP & 860WP
Hinged Lid

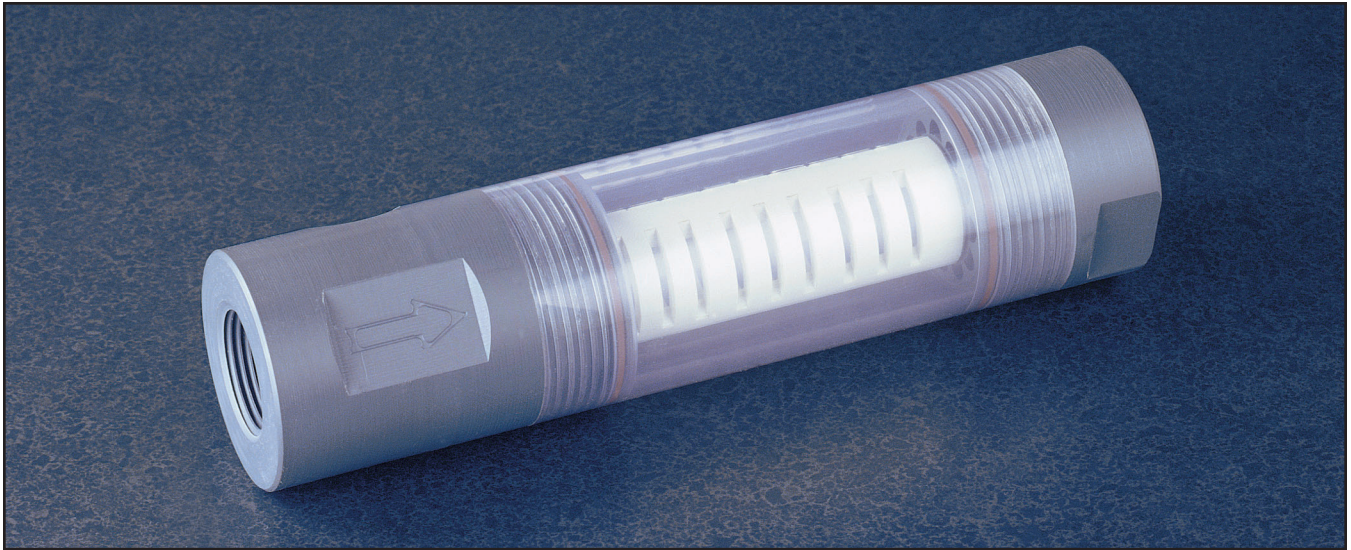
Model	Pipe I.D.	Pipe O.D.	Length	Well Size	Type of lid	Wt.
460WP	4.250"	4.500"	5'	Up to 2"	Slip Over	32 lbs.
660WP	6.375"	6.625"	5'	Up to 4"	Hinge	49 lbs.
860WP	8.250"	8.625"	5'	Up to 6"	Hinge	76 lbs.

STEEL NON-WELDED CAPS

Johnson Screens Non-Welded Caps (NWC) are made from heavy gauge steel and have 4 tamper-proof set screws to secure it to your existing pipe. These caps can also be welded, if needed. The unique hinge design will not rust or bind. They come painted blue and accept an optional padlock for security.



Model	Fits Pipe O.D.	Well Size	Type of lid	Wt.
NWC-6	6.625"	Up to 4"	Hinge	8 lbs.
NWC-8	8.625"	Up to 6"	Hinge	10 lbs.
NWC-10	10.750"	Up to 8"	Hinge	13 lbs.
NWC-12	12.750"	Up to 10"	Hinge	16 lbs.

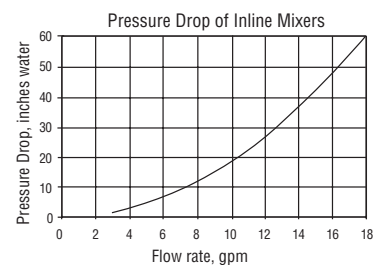
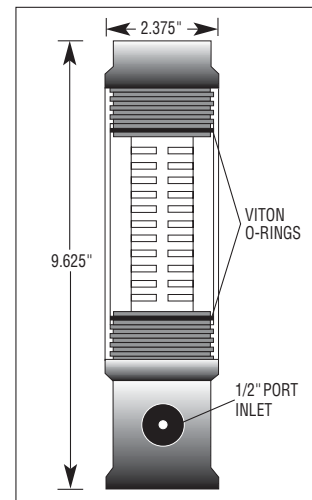


JOHNSON® INLINE MIXER: SUPERIOR MIXING WITH 50% LESS PRESSURE DROP

The unique internal design of our inline mixer uses ordinary line pressure to create high levels of turbulence, enhancing mixing of fluid additives with the product stream. Containing no moving parts, the mixer is virtually maintenance-free and installs quickly and easily without special tools or components.

These static mixers are used in a wide variety of processes such as chemical blending, pH control, water treatment and chlorine mixing. Their features include:

- **PVC construction**
- **Flow rates from 3 to 18 GPM**
- **1" NPT inlet and outlet**
- **1/2" diameter chemical port inlet**
- **No solvents used in manufacture**
- **Can be disassembled for cleaning**
- **Pressure tested to 140 PSI**
- **Viton O-ring seals**
- **Weight: 1 lb.**
- **9.625" long, 2.375" OD**



PVC VEE-WIRE MONITORING SCREEN SPECIFICATIONS

GENERAL: The product is made of white PVC Type 1, Grade 1 material as described in ASTM F480 and ASTM D1784, Class 12454B. The product is Vee-Wire® screen with a continuous slot widening inwardly to minimize clogging. The surface wire is helically wrapped and sonic welded to a circular array of internal rods. The slot is selected based on a sieve analysis of the waterbearing formation sediments or the selected filter pack.

STRENGTH: The screen meets the following minimum strength requirements:

Collapse Pressure: _____ psi at _____ slot

Tensile Strength: _____ lbs. of hanging weight

DIAMETER: The nominal screen outside diameter is _____ inches and is round within 0.030 inches. The clear inside diameter is _____ inches. The screen body is straight within 1/16" over a 5' length.

SLOT: The required slot opening is _____ inches with minimum open area of _____ square inches/foot of screen. The manufactured slot is within ± .004 inches of the nominal, and the slots are essentially free of stringers or burrs.

FITTING: ASTM F480 flush thread fittings are required; including a Buna-N O-ring on the male end. The fittings are heat welded to the

screen body. Fittings are square to the screen body within .015" for 2"PS, .020" for 4"PS, or .030" for 6"PS screens.

FINISH: The screen surface is free of oils, grease, paint, dirt, and any manufacturer's markings that could alter the chemistry of the sample. Stringers or burrs are removed.

The product is completely encased in an individual polyethylene protective wrapper with sealed ends and shipped in water resistant cardboard boxes.

DOCUMENTATION: If required, the manufacturer will provide documentation that the screen meets the specifications. Examples are material certificate of compliance, test results for strength or leak test requirements, inspection records for dimensions, cleaning process used and its acceptance criteria.

SUPPLIER: The recommended manufacturer is:

Johnson Screens, Inc.

P.O. Box 64118

St. Paul, MN 55164

Telephone: 800-VEE-WIRE / 651-636-3900

Fax: 800-328-9891 / 651-638-3171

PVC VEE-WIRE 8"PS SCREEN SPECIFICATIONS

GENERAL: The product is made of white PVC Type 1, Grade 1 material as described in ASTM F480 and ASTM D1784, Class 12454B. The product is Vee-Wire® screen with a continuous slot widening inwardly to minimize clogging. The surface wire is helically wrapped and sonic welded to a circular array of channel rods. The slot is selected based on a sieve analysis of the waterbearing formation sediments or the selected filter pack.

STRENGTH: The screen meets the following minimum strength requirements:

Collapse Pressure: _____ psi at _____ slot

Tensile Strength: _____ lbs. of hanging weight

DIAMETER: The nominal screen outside diameter is 8.63 inches and is round within 0.030 inches. The clear inside diameter is _____ inches.

The screen body is straight within 1/8" over a 5' length.

SLOT: The required slot opening is _____ inches with minimum open area of _____ square inches/foot of screen. The manufactured slot is within ± .004 inches of the nominal, and the slots are essentially free of stringers or burrs.

FITTING: ASTM F480 flush thread fittings are required; including a Buna-N O-ring on the male end. The fittings are solvent welded with a

lap strip to the screen body. Fittings are square to the screen body within .030".

FINISH: The screen surface is essentially free of oils, grease, paint, dirt, and any manufacturer's marketings. Stringers or burrs are removed.

The product is completely encased in an individual polyethylene protective wrapper with sealed ends and shipped in cardboard or wooden boxes.

DOCUMENTATION: If required, the manufacturer will provide documentation that the screen meets the specifications. Examples are material certificate of compliance, test results for strength or leak test requirements, inspection records for dimensions, cleaning process used and its acceptance criteria.

SUPPLIER: The recommended manufacturer is:

Johnson Screens, Inc.

P.O. Box 64118

St. Paul, MN 55164

Telephone: 800-VEE-WIRE / 651-636-3900

Fax: 800-328-9891 / 651-638-3171

PVC SLOTTED SCREEN SPECIFICATIONS

GENERAL: The product is made of white PVC Type 1, Grade 1 material as described in ASTM F480 and ASTM D1784, Class 12454B, to include roundness, ovality and straightness. Each screen to have machined slots in a uniform pattern of spacings and rows. The slot is selected based on a sieve analysis of the waterbearing formation sediments or the selected filter pack.

STRENGTH: Schedule _____ pipe is required for the following minimum strength requirements:

Tensile Strength: _____ lbs. of hanging weight

DIAMETER: The nominal screen outside diameter is _____ inches. The clear inside diameter is _____ inches

SLOT: The required slot opening is _____ inches with ± .005 inch tolerance; and the slots are essentially free of stringers or burrs.

The minimum open area is _____ sq. inches/foot of screen.

FITTING: Schedule _____ PVC ASTM F480 flush thread fittings are required including a Buna-N O-ring on the male end.

FINISH: The screen surface is free of oils, grease, paint, dirt, and any manufacturer's markings that could alter the chemistry of the sample.

Stringers or burrs are removed.

The product is completely encased in an individual polyethylene protective wrapper with sealed ends and shipped in cardboard or wooden boxes.

DOCUMENTATION: If required, the manufacturer will provide documentation that the screen meets the specifications. Examples are material certificate of compliance, test results for strength or leak test requirements, inspection records for dimensions, cleaning process

PVC RISER PIPE SPECIFICATIONS

GENERAL: The product is made of white PVC Type 1, Grade 1 material as described in ASTM F480 and ASTM D1784, Class 12454B, to include roundness, ovality and straightness.

STRENGTH: Schedule _____ pipe is required for the following minimum strength requirements:

Collapse Pressure: _____ psi

Tensile Strength: _____ lbs. of hanging weight

Column Strength: _____ lbs.

DIAMETER: The nominal screen outside diameter is _____ inches. The clear inside diameter is _____ inches.

FITTINGS: Required fittings are Schedule _____ PVC ASTM F480 Flush thread male by female fittings, and includes a Buna N O-ring on the male end.

FINISH: The riser surface is free of oils, grease, paint, dirt and any manufacturer's markings that could alter the chemistry of the sample. Burrs and stringers are removed.

PVC VEE PACK® SCREEN SPECIFICATIONS

GENERAL: Both inner and outer screens are PVC Vee-Wire® screens with a continuous slot widening inwardly to minimize clogging. The surface wires shall be helically wrapped over a circular array of internal rods. Using sonic welding, each wire and rod juncture shall be fully joined. The filter pack and slot size are selected based on a sieve analysis of the waterbearing sediments.

STRENGTH: The Vee-Pack™ screen meets the following minimum strength requirements:

Collapse Pressure: _____ psi at _____ slot

Tensile Strength: _____ lbs. of hanging weight

Wire/Rod Weld: 100 lbs. tensile strength

DIAMETER: The nominal screen outside diameter is _____ inches, and is round within 0.030 inches. The clear inside diameter is _____ inches.

FILTER PACK: The filter pack is _____ size. It is round, clean, washed resieved silica sand with a uniformity coefficient of 2.0 or less; and at least 98% of the material is within the size designation.

ANNULUS: The annulus between the two screens is completely filled with the filter pack. The annulus thickness is at least 0.188 inches.

The screen open area is _____ sq. in./ft. of screen. The screen slot openings must retain 100% of the filter pack's minimum size designation.

used and its acceptance criteria.

SUPPLIER: The recommended manufacturer is:

Johnson Screens, Inc.

P.O. Box 64118

St. Paul, MN 55164

Telephone: 800-VEE-WIRE / 651-636-3900

Fax: 800-328-9891 / 651-638-3171

The product is completely encased in an individual polyethylene protective wrapper with sealed ends and shipped in water resistant cardboard boxes.

DOCUMENTATION: If required, the manufacturer will provide documentation that the screen meets the specifications. Examples are material certificate of compliance, test results for strength or leak test requirements, inspection records for dimensions, cleaning process used and its acceptance criteria.

SUPPLIER: The recommended manufacturer is:

Johnson Screens, Inc.

P.O. Box 64118

St. Paul, MN 55164

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FITTINGS: Fittings are welded to the screen body. Flush threads are compatible with the ASTM F480 specification, including a Buna-N O-ring on the male end.

MATERIAL: Screen and fittings are white PVC Type I, Grade I material as described in ASTM F480 and ASTM D1784 class 12454B.

FINISH: The screen surfaces are free of any oils, grease, paint, dirt and any manufacturer's markings that could alter the chemistry of the sample. The product is free of burrs.

The product is completely incased in an individual polyethylene protection wrapper with sealed ends.

DOCUMENTATION: If required, the manufacturer will provide documentation that the screen meets the specifications. Examples are material certificate of compliance, test results for strength or leak test requirements, inspection records for dimensions, cleaning process used and its acceptance criteria.

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Note: Johnson Screens reserves the rights to change specifications, design and price of products described in this literature without notice.



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