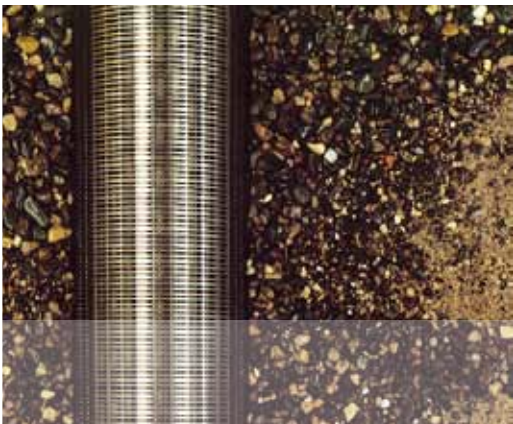


STAINLESS STEEL WELL SCREENS & ACCESSORIES



THE WORLD'S BEST DESIGNED WATER WELLS USE JOHNSON SCREENS® WELL SCREENS AND ACCESSORIES

WHEN PERFORMANCE IS IMPORTANT - THERE IS NO EQUAL

Johnson Screens is the largest manufacturer of premium water well screens, bringing the best, most cost-efficient water wells to the industry.

BETTER WELL DEVELOPMENT

Johnson Screens® well screens have very high open area, allowing better access to the entire formation around the screen. Fines and drilling fluid are removed quickly and completely, resulting in better well development.

LOWER PUMPING COSTS

The high open area of a *Johnson Screens* well screen allows water to enter the well freely, resulting in minimal drawdown and less energy expended by the pump.

LESS MAINTENANCE

The continuous slot design allows lower entrance velocity of the water, which reduces encrustation rates. The slot design also resists plugging and prevents sand from damaging pumps.

CAREFUL DESIGN LEADS TO SUCCESSFUL SCREENS

- Johnson Screens will analyze the formation sand to correctly size the well screen
- A grade of steel with the right level of corrosion resistance is selected
- Noting the depth of the well, the correct combination of wire and rod that produces a screen with all the necessary strength characteristics is chosen

- The screen design is determined by aquifer characteristics and desired yield
- Johnson Screens can supply all of the fittings, welded or threaded, that best suits the method of installation

SAND CONTROL

The water well screen is a key component of sand-control systems, either as an integral component of the gravel pack, or as a stand-alone provider of sand control. *Johnson Screens* well screens, with patented Vee-Wire® technology and welded construction, help to prevent screen failure by better controlling the sand.

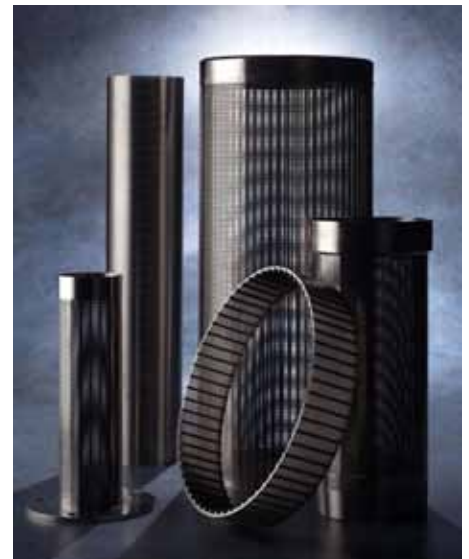
THE INDUSTRY'S BEST PRODUCT LINE COMES WITH THE INDUSTRY'S BEST SUPPORT

Johnson Screens does more than just make the world's best well screens; it also supplies technical support that is like having an in-house engineering team with no additional costs. Support services include:

- Sand analysis of formation materials
- Screen size recommendation
- Screen installation suggestions
- Well construction consultation

The Johnson Screens' staff includes design engineers, welders, technical support personnel and sales engineers who have been on the factory floor, presented in classrooms and technical seminars, set and pulled screens and run pumping tests.

Johnson Screens understands the water well world and is available to assist in any way.





JOHNSON SCREENS® END FITTING AND SCREEN CONNECTION OPTIONS

Most well screen installations involve a few standard fitting combinations. Telescope size screens typically use a Figure K packer on the screen top and a welded or threaded plate bottom. Pipe size screens attach directly to the casing and usually have plate bottoms.

Johnson Screens stocks a variety of other fittings, such as centralizers, shale traps and connecting fittings for quick delivery. Varieties include:

- Flush threads (Sch 40 and Sch 80)
- NPT thread
- Weld ring
- API couplers
- Plate bottom
- Threaded point
- Threaded cap/plug
- Locking cap
- Bail hooks
- Weld ring x weld ring
- Weld ring x collar
- PVC to stainless steel adaptor
- Quickloc™
- Shur-A-Lock®



Centralizer



Figure TF Washdown



Shale Trap



Figure K Packer



Wirelock Fittings



Drive Point



R & L Threaded Couplings



R & L Threaded Nipples



Back Pressure Valves



Wash Plugs



Di-Electric Coupling



Flush Thread

JOHNSON SCREENS: MORE THAN JUST SCREENS



DI-ELECTRIC COUPLING

Johnson Screens® di-electric coupling prevents galvanic corrosion in municipal and industrial water well completions. When two dissimilar metals are coupled in water-saturated environments, the less corrosion-resistant metal corrodes faster from the galvanic cell created. This corrosion can be prevented by eliminating the contact between the two metal surfaces.

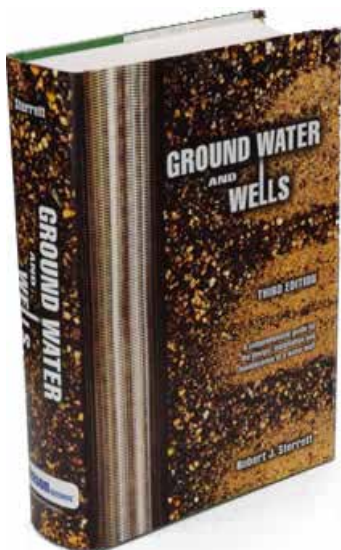
The di-electric coupling uses insulating rings which separate the metals and prevent contact. This feature increases the life of the pipe and, ultimately, the life of the well. Di-electric couplings are available for pipe sizes from 38 to 609 mm (1.5 - 24 In.). Special sizes or connection adaptors are available on request.

FEATURES, ADVANTAGES AND BENEFITS:

- In the center of the coupling, an insulating sleeve prevents dissimilar metals from making contact and causing corrosion of the casing. This feature greatly extends the life of the pipe for significant long-term savings
- The coupling has a small OD, only 38 to 51 mm (1.5 to 2 In. larger than that of the pipe). This feature saves costs by minimizing the size of the hole to be drilled
- The nominal ID of the string is maintained through the coupling for full design functionality



GROUNDWATER AND WELLS



Recognized worldwide by engineers and scientists as the authoritative text on hydro-geology, well hydraulics, design, construction and materials.

Johnson Screens recognizes the growing importance of environmental engineering.

Groundwater and Well's Third Edition includes comprehensive coverage of the accepted practices in environmental well management.

This book is a valuable tool for anyone who designs, specifies, drills, samples, manages, or interprets data from monitoring or recovery wells while complying with federal state and local laws. Groundwater and Wells Third Edition can be purchased from the Johnson Screens web site at www.johnsonscreens.com/book.

TECHNICAL INFORMATION: JOHNSON SCREENS® WATER WELL DRIVE POINTS



JOHNSON SCREENS 60 WIRE MODELS - 304 AND 316 STAINLESS STEEL

Size In.	OD: In.	ID: In.	Screen Weight ¹ : lbs/ft	Max Depth: ft	Tensile Strength ² : lbs	Column Strength ³ : lbs
1.25	1.7	1.0	2.0	1,000	5,500	5,800
2P	2.4	1.7	2.7	1,000	7,200	8,700
2P Sand Point	2.6	2.0	2.5	1,000	4,900	4,200
3P All Drive	3.7	3.0	4.4	1,000	12,700	13,400
4P All Drive	4.7	4.0	5.6	600	16,300	21,400
4P - Double Drive	4.8	4.0	7.0	1,000	16,300	21,400

Size In.	Open Area - In. ² /ft of Screen						Collapse Strength - PSI ⁴					
	Screen Slot Size - Thousandths of an Inch						Screen Slot Size - Thousandths of an Inch					
	6	10	12	15	20	30	6	10	12	15	20	30
1.25	5.8	9.1	10.6	12.7	15.9	21.2	6,155	5,804	5,642	5,417	5,078	4,514
2P	8.2	12.8	15.0	17.9	22.4	29.9	2,349	2,215	2,153	2,067	1,938	1,722
2P Sand Point	8.9	14.0	16.3	19.6	24.5	32.6	1,825	1,721	1,673	1,606	1,506	1,338
3P All Drive	12.6	19.7	23.0	27.6	34.5	46.1	638	620	603	579	543	483
4P All Drive	16.0	25.2	29.4	35.3	44.1	58.8	318	300	291	280	262	233
4P - Double Drive	11.3	18.1	21.3	25.9	32.9	45.2	835	801	785	763	728	667

JOHNSON SCREENS 90 WIRE MODELS - 304 AND 316 STAINLESS STEEL

Size In.	OD: In.	ID: In.	Screen Weight ¹ : lbs/ft	Max Depth: ft	Tensile Strength ² : lbs	Column Strength ³ : lbs
1.25	1.7	1.0	1.7	600	5,500	5,800
2P	2.4	1.7	2.3	600	7,200	8,700
2P Sand Point	2.6	2.0	2.0	600	4,900	4,200
4P All Drive	4.6	4.0	4.8	250	16,300	21,400

Size In.	Open Area - In. ² /ft of Screen						Collapse Strength - PSI ⁴					
	Screen Slot Size - Thousandths of an Inch						Screen Slot Size - Thousandths of an Inch					
	6	10	12	15	20	30	6	10	12	15	20	30
1.25	4.0	6.4	7.6	9.2	11.7	16.1	2,496	2,396	2,348	2,280	2,176	1,993
2P	5.7	9.1	10.7	12.9	16.5	22.6	857	822	806	782	747	684
2P Sand Point	5.9	9.5	11.1	13.5	17.2	23.7	743	713	699	679	648	594
4P All Drive	11.0	17.6	20.7	25.2	32.0	44.0	118	113	111	108	103	94

NOTES:

- Transmitting capacity (gpm/ft of screen) = open area x 0.31 @ 0.1 ft/sec
- P - pipe size

1. Weight is based on 10 slot construction, no fittings
2. Tensile and column strength includes 30 percent safety factor
3. Column strength is based on 5 ft screen barrel length
4. Calculated collapse values - no safety factor included

TECHNICAL INFORMATION: JOHNSON SCREENS® SMALL DIAMETER STAINLESS STEEL WELL SCREENS



JOHNSON SCREENS WATER WELL AND ENVIRONMENTAL SCREENS: 60 WIRE CONSTRUCTION - 304 AND 316 STAINLESS STEEL

Size In.	OD: In.	ID: In.	Screen Weight ¹ : lbs/ft	Max Depth: ft	Tensile Strength ² : lbs	Recom. Hang Weight ³ : lbs	Column Strength ⁴ : lbs
1.25	1.7	1.1	1.8	1,000	4,200	2,100	3,100
2P*	2.5	1.99**	1.9	1,000	2,000	1,000	1,500
2P/3T	2.6	2.0	2.2	1,000	3,400	1,700	2,600
2.5P	3.0	2.4	2.6	1,000	4,200	2,100	3,100
3P*	3.6	2.9	2.9	1,000	4,200	2,100	3,100
3P/4T	3.7	3.1	3.0	1,000	4,200	2,100	3,100
4P*	4.6	4.0**	3.7	600	4,800	2,400	3,700
4P/5T	4.7	4.1	3.8	600	4,800	2,400	3,700
5P/6T	5.6	5.0	4.5	400	5,600	2,800	4,200

Size In.	Open Area - In. ² /ft of Screen							Collapse Strength - PSI						
	Screen Slot Size - Thousandths of an Inch							Screen Slot Size - Thousandths of an Inch						
	7	10	12	20	30	40	50	7	10	12	20	30	40	50
1.25	6.9	9.4	10.9	16.4	21.9	26.2	29.8	5,901	5,648	5,491	4,942	4,393	3,954	3,594
2P*	9.7	13.3	15.5	23.3	31.0	37.2	42.3	2,094	2,004	1,948	1,754	1,559	1,403	1,275
2P/3T	10.1	13.8	16.1	24.1	32.2	38.6	43.9	1,883	1,802	1,752	1,577	1,402	1,262	1,147
2.5P	11.9	16.2	18.9	28.4	37.8	45.4	51.6	1,164	1,114	1,083	975	867	780	709
3P*	14.0	19.1	22.3	33.5	44.6	53.5	60.8	713	682	663	597	531	478	434
3P/4T	14.5	19.9	23.2	34.8	46.4	55.6	63.2	635	608	591	532	473	426	387
4P*	17.9	24.5	28.6	42.9	57.2	68.6	78.0	340	326	317	285	253	228	207
4P/5T	18.6	25.4	29.6	44.4	59.2	71.0	80.7	307	294	286	257	229	206	187
5P/6T	22.1	30.2	35.2	52.9	70.5	84.6	96.1	182	174	170	153	136	122	111

NOTES:

- Transmitting capacity (gpm/ft of screen) = open area x 0.31 @ 0.1 ft/sec
- P - pipe size, T - telescope

1. Weight is based on 10 slot construction, no fittings
2. Tensile and column strength includes 30 percent safety factor
3. Recommended hang weight is 50 percent of calculated tensile strength
4. Column strength is based on 5 ft screen barrel length
5. Calculated collapse values - no safety factor included

* Alternate constructions for water well and environmental

** ID listed is confirmed clear for environmental





JOHNSON SCREENS® WATER WELL AND ENVIRONMENTAL SCREENS: 90 WIRE CONSTRUCTION - 304 AND 316 STAINLESS STEEL

Size	OD: In.	ID: In.	Screen Weight ¹ : lbs/ft	Max Depth: ft	Tensile Strength ² : lbs	Recom. Hang Weight ³ : lbs	Column Strength ⁴ : lbs
1.25	1.7	1.1	1.5	600	4,200	2,100	3,100
2P*	2.4	1.99**	1.5	600	2,000	1,000	1,500
2P/3T	2.5	2.0	1.7	600	3,400	1,700	2,600
2.5P	3.0	2.4	2.1	600	4,200	2,100	3,100
3P*	3.5	2.9	2.3	600	4,200	2,100	3,100
3P/4T	3.7	3.1	2.4	600	4,200	2,100	3,100
4P*	4.5	4.0**	2.9	250	4,800	2,400	3,700
4P/5T	4.7	4.1	3.0	250	4,800	2,400	3,700
5P/6T	5.6	5.0	3.5	100	5,600	2,800	4,200

Size	Open Area - In. ² /ft of Screen							Collapse Strength - PSI						
	Screen Slot Size - Thousandths of an Inch							Screen Slot Size - Thousandths of an Inch						
	7	10	12	20	30	40	50	7	10	12	20	30	40	50
1.25	4.6	6.4	7.6	11.7	16.1	19.8	22.1	2,343	2,272	2,227	2,063	1,890	1,743	1,618
2P*	6.6	9.2	10.8	16.7	22.9	28.2	32.7	817	792	776	719	659	608	564
2P/3T	6.9	9.6	11.2	17.4	23.9	29.3	34.0	724	702	688	637	585	538	500
2.5P	8.1	11.3	13.3	20.5	28.1	34.6	40.1	443	429	421	390	357	330	306
3P*	9.6	13.3	15.7	24.2	33.3	40.9	47.5	269	261	255	237	217	200	186
3P/4T	10.0	13.9	16.3	25.2	34.6	42.6	49.4	239	232	227	211	193	178	165
4P*	12.4	17.1	20.2	31.1	42.8	52.6	61.0	127	123	121	112	102	94	88
4P/5T	12.8	17.7	20.9	32.2	44.3	54.5	63.2	114	111	109	101	92	85	79
5P/6T	15.3	21.2	24.9	38.5	52.8	65.0	75.4	67	65	64	59	54	50	47

NOTES:

- Transmitting capacity (gpm/ft of screen) = open area x 0.31 @ 0.1 ft/sec
- P - pipe size, T - telescope

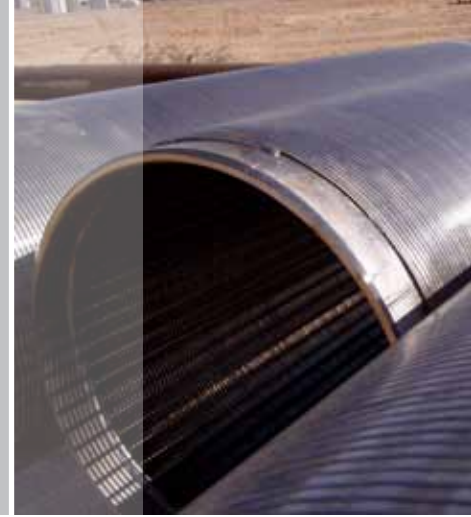
1. Weight is based on 10 slot construction, no fittings
2. Tensile and column strength includes 30 percent safety factor
3. Recommended hang weight is 50 percent of calculated tensile strength
4. Column strength is based on 5 ft screen barrel length
5. Calculated collapse values - no safety factor included

* Alternate constructions for water well and environmental

** ID listed is confirmed clear for environmental



TECHNICAL INFORMATION: JOHNSON SCREENS® FREE-FLOW® 304 STAINLESS STEEL SCREENS

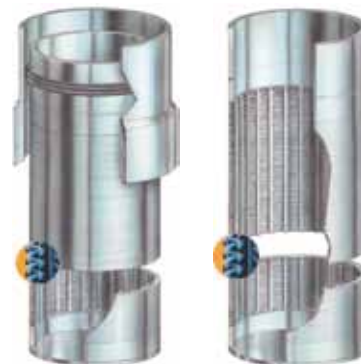


JOHNSON SCREENS LARGE DIAMETER FREE-FLOW SCREENS: SIZES 6P - 16T

Size In.	Max Depth: ft	OD: In.	ID: In.	Weight ¹ : lbs/ft	Recom. Hang Weight ² : lbs	Collapse Strength ¹ : PSI	Intake Area ³ - In ² /ft of Screen							
							Screen Slot Size in Thousandths of an Inch							
							10	20	30	40	50	60	80	100
6" P	100	6.5	6.0	4.4	4,300	87	35	61	82	98	111	123	140	153
	250	6.6	6.0	4.8	4,300	194	20	37	51	64	75	85	102	115
	600	6.7	5.9	6.0	8,800	185	20	37	52	65	76	86	103	117
	1,000	6.8	5.9	7.6	8,800	677	16	30	43	54	64	73	89	103
8" T	250	7.6	6.7	7.0	11,000	127	23	42	59	73	86	98	117	133
	1,000	7.7	6.7	8.9	11,000	468	18	34	48	61	73	83	101	116
8" P	250	8.7	7.9	7.9	12,100	85	26	48	67	84	99	112	134	152
	1,000	8.8	7.9	10.1	20,800	314	21	39	55	70	83	95	115	133
10" T	250	9.5	8.6	8.3	12,100	65	28	53	74	92	108	122	146	166
	1,000	9.6	8.6	10.7	12,100	242	23	43	60	76	90	103	126	145
10" P	600	10.8	9.8	12.6	15,400	170	25	48	68	86	102	116	142	163
	1,000	10.8	9.8	17.8	15,400	226	25	48	68	86	102	116	142	163
12" T	600	11.4	10.4	13.6	17,600	145	27	51	72	90	107	123	149	172
	1,000	11.4	10.4	19.0	17,600	192	27	51	72	90	107	123	149	172
12" P	250	12.8	11.8	14.8	17,600	103	30	57	80	102	121	138	168	193
	600	12.8	11.8	20.9	17,600	136	30	57	80	102	121	138	168	193
	1,000	12.9	11.8	25.2	17,600	193	29	55	78	98	117	134	163	188
14" T	250	12.6	11.6	13.6	14,300	108	30	56	79	100	119	136	165	190
	600	12.6	11.6	19.6	14,300	143	30	56	79	100	119	136	165	190
	1,000	12.6	11.6	24.0	14,300	207	28	53	76	96	114	131	160	184
14" P / 16" T	250	14.1	13.1	15.5	17,100	77	33	63	89	112	133	152	185	213
	600	14.1	13.1	22.2	17,100	102	33	63	89	112	133	152	185	213
	1,000	14.1	13.1	27.2	17,100	148	32	60	85	107	128	146	179	206

NOTES:

- Screens are available in up to 40 foot lengths of continuously wrapped screen with no mid-weld
 - 316 stainless steel screen technical information is available upon request
 - P - pipe size, T - telescope
1. Based on 0.030 In. slot size (collapse values contain no safety factor)
 2. Recommended hang weight is 50 percent of the calculated tensile strength
 3. Transmitting capacity in gpm/ft of screen = open area x 0.31



Telescope size screens (left) install through the casing and usually have a Figure K packer as upper fitting. Pipe size screens (right) usually have weld rings at each end and attach directly to the casing.



JOHNSON SCREENS® LARGE DIAMETER FREE-FLOW® SCREENS: SIZES 16P - 36P

Size In.	Max Depth: ft	OD: In.	ID: In.	Weight ¹ : lbs/ft	Recom. Hang Weight ² : lbs	Collapse Strength ¹ : PSI	Intake Area ³ - In ² /ft of Screen							
							Screen Slot Size in Thousandths of an Inch							
							10	20	30	40	50	60	80	100
16" P / 18" T	100	16.1	15.0	17.7	19,300	52	38	71	101	128	152	173	211	243
	250	16.1	15.0	25.4	19,300	69	38	71	101	128	152	173	211	243
	600	16.1	15.0	31.1	19,300	99	36	68	97	123	146	167	204	235
	1,000	16.1	14.8	39.5	43,800	168	40	75	106	133	158	180	219	251
18" P / 20" T	100	17.9	16.7	19.3	19,800	38	42	79	112	142	169	193	235	270
	250	17.9	16.7	34.0	19,800	72	40	76	108	136	162	186	227	262
	600	18.0	16.7	35.8	19,800	120	45	84	118	149	177	202	245	280
	1,000	18.0	16.7	42.7	37,100	120	45	84	118	149	177	202	245	280
20" P	100	19.9	18.8	21.8	23,100	27	47	88	125	158	188	214	261	300
	250	20.0	18.8	38.1	23,100	52	45	85	120	152	181	208	253	292
	600	20.1	18.8	40.3	23,100	87	50	94	132	167	197	225	273	313
	1,000	20.1	18.8	48.3	43,300	87	50	94	132	167	197	225	273	313
24" T	100	21.9	20.7	34.6	26,400	27	52	97	138	174	206	236	287	330
	250	21.9	20.7	42.2	26,400	40	49	93	132	167	198	227	278	320
	600	22.0	20.7	44.4	26,400	66	55	102	145	182	216	246	299	343
	1,000	22.2	20.7	66.7	49,500	145	42	80	114	146	174	201	248	289
24" P / 26" T	100	24.1	22.8	44.8	22,000	30	54	102	145	184	218	250	305	352
	250	24.2	22.8	46.9	22,000	50	60	113	159	201	238	271	329	377
	1,000	24.4	22.8	69.0	41,200	110	46	88	125	160	192	221	273	317
26" P	100	25.7	24.4	47.5	23,700	25	58	109	155	196	233	267	326	376
	250	25.8	24.4	50.0	23,700	41	64	120	170	214	253	289	351	402
	1,000	26.0	24.4	73.7	44,300	91	49	93	134	170	204	235	290	338
30" T	100	27.0	25.8	49.7	23,700	21	61	114	162	206	245	280	342	395
	250	27.1	25.8	52.3	23,700	35	67	126	178	225	266	303	368	422
	1,000	27.3	25.8	73.7	44,300	78	51	98	140	179	214	247	305	355
30" P / 36" T	100	29.6	28.3	54.8	27,500	16	66	125	178	225	268	307	375	433
	250	29.7	28.3	57.6	27,500	27	74	138	195	246	292	333	403	463
	1,000	29.9	28.3	84.9	51,600	60	56	107	154	196	235	271	334	389
36" P	100	35.7	34.3	68.9	31,900	16	89	166	235	296	350	400	485	556
	600	35.9	34.3	101.2	59,800	35	68	129	185	235	282	325	401	467

NOTES:

- Screens are available in up to 40 foot lengths of continuously wrapped screen with no mid-weld
- 316 stainless steel screen technical information is available upon request
- P - pipe size, T - telescope

1. Based on 0.030 In. slot size (collapse values contain no safety factor)
2. Recommended hang weight is 50 percent of the calculated tensile strength
3. Transmitting capacity in gpm/ft of screen = open area x 0.31

TECHNICAL INFORMATION: JOHNSON SCREENS® HI-FLOW™ 304 STAINLESS STEEL SCREENS

JOHNSON SCREENS LARGE DIAMETER HI-FLOW SCREENS: SIZES 6P - 16T

Size In.	Max Depth: ft	OD: In.	ID: In.	Weight ¹ : lbs/ft	Recom. Hang Weight ² : lbs	Collapse Strength ¹ : PSI	Intake Area ³ - In ² /ft of Screen							
							Screen Slot Size in Thousandths of an Inch							
							10	20	30	40	50	60	80	100
6" P	100	6.5	6.0	4.4	4,300	87	35	61	82	98	111	123	140	153
	250	6.6	6.0	6.3	4,300	252	25	46	63	77	90	100	118	132
	600	6.7	5.9	7.5	8,800	241	26	46	64	78	91	102	120	134
	1,000	6.7	5.9	7.5	8,800	241	26	46	64	78	91	102	120	134
8" T	100	7.5	6.7	6.6	11,000	57	40	71	94	113	129	141	162	177
	600	7.5	6.7	8.7	11,000	172	29	52	71	88	102	114	134	150
	1,000	7.6	6.7	10.4	11,000	353	35	63	85	103	118	131	152	168
8" P	250	8.7	7.9	9.8	12,100	110	33	60	83	102	118	132	155	174
	1,000	8.7	7.9	11.8	12,100	236	40	72	97	118	136	150	174	192
10" T	250	9.5	8.6	10.5	12,100	85	36	66	90	111	129	144	170	189
	1,000	9.5	8.6	12.6	12,100	181	44	79	106	129	148	164	190	209
10" P	250	10.8	9.8	14.6	15,400	124	50	89	121	147	168	186	216	238
	1,000	10.9	9.8	21.0	15,400	341	29	55	77	97	114	130	157	179
12" T	250	11.3	10.4	15.8	17,600	108	53	94	127	154	176	195	226	249
	1,000	11.4	10.4	22.5	17,600	298	31	57	81	101	119	136	164	187
12" P	250	12.8	11.8	17.2	17,600	74	60	106	143	174	199	221	256	282
	1,000	12.9	11.8	24.7	17,600	206	35	65	91	114	135	154	185	211
14" T	250	12.5	11.6	16.0	14,300	80	58	104	140	170	195	216	250	276
	1,000	12.6	11.6	23.4	14,300	221	34	63	89	112	132	150	181	207
14" P / 16" T	250	14.0	13.1	18.2	17,100	57	65	116	157	190	218	242	280	309
	1,000	14.1	13.1	26.5	17,100	158	38	71	100	125	148	168	202	231

NOTES:

- Screens are available in up to 40 foot lengths of continuously wrapped screen with no mid-weld
 - 316 stainless steel screen technical information is available upon request
 - On average, Hi-Flow screens have a 30 percent higher open area
 - P - pipe size, T - telescope
1. Based on 0.030 In. slot size (collapse values contain no safety factor)
 2. Recommended hang weight is 50 percent of the calculated tensile strength
 3. Transmitting capacity in gpm/ft of screen = open area x 0.31





JOHNSON SCREENS® LARGE DIAMETER HI-FLOW™ SCREENS: SIZES 16P - 36P

Size In.	Max Depth: ft	OD: In.	ID: In.	Weight ¹ : lbs/ft	Recom. Hang Weight ² : lbs	Collapse Strength ¹ : PSI	Intake Area ³ - In ² /ft of Screen							
							Screen Slot Size in Thousandths of an Inch							
							10	20	30	40	50	60	80	100
16" P / 18" T	100	16.1	15.0	20.8	19,300	37	75	133	180	219	251	278	322	355
	600	16.1	15.0	30.3	19,300	106	43	81	111	143	169	192	231	264
	1,000	16.3	15.0	39.5	36,100	162	40	76	107	135	160	183	221	254
18" P / 20" T	600	17.9	16.7	33.4	19,800	78	48	90	127	159	187	213	257	293
	1,000	18.0	16.7	42.7	37,100	120	45	84	118	149	177	202	245	280
20" P	250	20.0	18.8	37.5	23,100	56	54	101	141	177	209	238	287	328
	600	20.1	18.8	40.1	23,100	87	50	94	132	167	197	225	273	313
	1,000	20.1	18.8	53.6	43,300	128	54	101	142	178	210	239	289	329
24" T	250	21.9	20.7	41.2	26,400	42	59	110	155	194	229	261	315	359
	600	22.0	20.7	44.4	26,400	66	55	102	145	182	216	246	299	343
	1,000	22.2	20.7	66.7	49,500	145	42	80	114	146	174	201	248	289
24" P / 26" T	100	24.1	22.8	43.5	22,000	32	65	121	170	214	252	287	346	395
	250	24.2	22.8	46.9	22,000	50	60	113	159	201	238	271	329	377
	1,000	24.4	22.8	69.0	41,200	110	46	88	125	160	192	221	273	317
26" P	100	25.7	24.4	46.4	23,700	26	69	129	182	228	269	306	369	421
	250	25.8	24.4	50.0	23,700	41	64	120	170	214	253	289	351	402
	1,000	26.0	24.4	73.7	44,300	91	49	93	134	170	204	235	290	338
30" T	100	27.0	25.8	48.5	23,700	23	73	136	191	240	283	321	388	443
	250	27.1	25.8	52.3	23,700	35	67	126	178	225	266	303	368	422
	1,000	27.3	25.8	76.7	44,300	78	51	98	140	179	214	247	305	355
30" P / 36" T	100	29.6	28.3	53.5	27,500	17	80	149	209	263	310	352	425	485
	250	29.7	28.3	57.6	27,500	27	74	138	195	246	292	333	403	463
	1,000	29.9	28.3	84.9	51,600	60	56	107	154	196	235	271	334	389
36" P	100	35.7	35.7	68.9	31,900	16	89	166	235	296	350	400	485	556
	250	35.8	35.8	89.7	59,800	23	96	180	253	318	375	426	514	587
	600	35.9	34.3	101.2	59,800	35	68	129	185	235	282	325	401	467

NOTES:

- Screens are available in up to 40 foot lengths of continuously wrapped screen with no mid-weld
 - 316 stainless steel screen technical information is available upon request
 - On average, Hi-Flow screens have a 30 percent higher open area
 - P - pipe size, T - telescope
1. Based on 0.030 In. slot size (collapse values contain no safety factor)
 2. Recommended hang weight is 50 percent of the calculated tensile strength
 3. Transmitting capacity in gpm/ft of screen = open area x 0.31

TECHNICAL INFORMATION: JOHNSON SCREENS® HICAP™ HIGH CAPACITY LOW CARBON STEEL SCREENS

JOHNSON SCREENS LARGE DIAMETER HICAP SCREENS: SIZES 6P -18T

Size In.	Max Depth: ft	OD: In.	ID: In.	Weight ¹ : lbs/ft	Recom. Hang Weight ² : lbs	Collapse Strength ¹ : PSI	Intake Area ³ - In ² /ft of Screen					
							Screen Slot Size in Thousandths of an Inch					
							30	40	50	60	80	100
6" P	250	6.6	6.0	6.3	5,100	266	63	77	90	100	118	132
	1,000	6.9	5.9	15.5	14,500	1,855	30	39	47	54	67	79
8" T	250	7.5	6.7	8.7	12,900	182	71	88	102	114	134	150
	1,000	7.7	6.7	17.9	18,100	1,340	34	43	52	60	75	88
8" P	250	8.7	7.9	9.9	14,100	117	83	102	118	132	155	174
	1,000	8.9	7.9	20.3	19,900	871	39	50	60	70	87	102
10" T	250	9.5	8.6	11.1	16,700	90	90	111	129	144	170	189
	1,000	9.7	8.6	22.6	23,600	674	42	54	66	76	95	111
10" P	250	10.9	9.8	25.2	25,400	476	48	61	74	85	106	125
	600	10.9	9.8	25.2	25,400	476	48	61	74	85	106	125
	1,000	10.9	9.8	25.2	25,400	476	48	61	74	85	106	125
12" T	250	10.9	9.8	27.1	29,000	476	48	61	74	85	106	125
	600	10.9	9.8	27.1	29,000	476	48	61	74	85	106	125
	1,000	10.9	9.8	27.1	29,000	476	48	61	74	85	106	125
12" P	250	12.9	11.8	29.5	29,000	288	56	72	87	101	126	148
	600	12.9	11.8	31.2	29,000	333	68	86	103	119	147	171
	1,000	13.0	11.8	34.3	29,000	502	60	76	92	106	132	155
14" T	250	12.6	11.5	27.5	23,600	309	55	71	85	99	123	144
	600	12.6	11.5	27.5	23,600	309	55	71	85	99	123	144
	1,000	12.6	11.5	29.1	23,600	357	66	84	101	116	143	167
14" P / 16" T	250	14.1	13.0	31.3	28,100	221	62	79	95	110	138	162
	600	14.1	13.0	31.3	28,100	221	62	79	95	110	138	162
	1,000	14.1	13.0	33.1	28,100	255	74	94	113	130	160	187
16" P / 18" T	250	16.0	14.8	35.5	31,700	152	70	90	108	125	156	183
	600	16.0	14.8	35.5	31,700	152	70	90	108	125	156	183
	1,000	16.0	14.8	37.7	31,700	175	84	107	128	148	182	212

NOTES:

- Screens are available in up to 40 foot lengths of continuously wrapped screen with no mid-weld
 - P - pipe size, T - telescope
1. Based on 0.030 In. slot size (collapse values contain no safety factor)
 2. Recommended hang weight is 50 percent of the calculated tensile strength
 3. Transmitting capacity in gpm/ft of screen = open area x 0.31





JOHNSON SCREENS® LARGE DIAMETER HICAP™ SCREENS: SIZES 18P - 36P

Size In.	Max Depth: ft	OD: In.	ID: In.	Weight ¹ : lbs/ft	Recom. Hang Weight ² : lbs	Collapse Strength ¹ : PSI	Intake Area ³ - In ² /ft of Screen					
							Screen Slot Size in Thousandths of an Inch					
							30	40	50	60	80	100
18" P / 20" T	250	17.9	16.7	39.0	32,600	108	78	100	121	140	175	205
	600	17.9	16.7	41.5	32,600	125	94	120	144	165	204	237
	1,000	18.0	16.7	46.1	32,600	190	82	106	127	147	183	214
20" P	250	20.0	18.8	44.0	38,100	78	87	112	135	157	195	229
	600	20.0	18.8	46.7	38,100	90	105	134	160	185	228	265
	1,000	20.1	18.8	51.9	38,100	137	92	118	142	164	204	239
24" T	250	21.9	20.7	48.7	43,500	59	96	123	148	171	214	251
	600	21.9	20.7	51.7	43,500	68	115	147	176	202	249	290
	1,000	22.0	20.7	57.4	43,500	104	101	129	155	180	223	262
24" P / 26" T	100	24.2	22.8	53.8	48,100	44	106	136	163	189	236	277
	250	24.2	22.8	57.1	48,100	51	127	162	194	223	275	320
	600	24.3	22.8	63.2	48,100	78	111	143	172	198	247	289
	1,000	24.4	22.8	74.6	48,100	124	149	189	224	257	313	361
26" P	100	25.8	24.4	57.5	51,700	36	113	145	174	202	252	296
	250	25.8	24.4	61.0	51,700	42	136	173	207	238	294	341
	600	25.9	24.4	67.6	51,700	64	119	152	183	211	263	308
	1,000	26.0	24.4	79.7	51,700	102	159	201	239	274	334	384
30" T	100	27.1	25.8	59.8	51,700	31	118	152	183	212	265	311
	250	27.1	25.8	63.5	51,700	36	143	182	217	250	308	358
	600	27.2	25.8	70.3	51,700	55	125	160	192	222	276	323
	1,000	27.3	25.8	83.1	51,700	88	167	211	251	287	350	404
30" P / 36" T	250	29.7	28.3	70.4	60,100	28	156	199	238	274	338	393
	600	29.9	28.3	91.6	60,100	67	183	211	275	315	384	442
36" P	100	100	35.7	34.3	83.9	69,800	16	188	239	286	406	472
	250	250	35.8	34.3	92.9	69,800	24	164	210	292	364	426
	600	600	35.9	34.3	109.3	69,800	39	219	278	378	461	531

NOTES:

- Screens are available in up to 40 foot lengths of continuously wrapped screen with no mid-weld
 - P - pipe size, T - telescope
1. Based on 0.030 In. slot size (collapse values contain no safety factor)
 2. Recommended hang weight is 50 percent of the calculated tensile strength
 3. Transmitting capacity in gpm/ft of screen = open area x 0.31



TECHNICAL INFORMATION: JOHNSON SCREENS® HICAP™ HIGH CAPACITY LOW CARBON STEEL GALVANIZED SCREENS

JOHNSON SCREENS LARGE DIAMETER HICAP SCREENS: SIZES 6P - 16T

Size In.	Max Depth: ft	OD: In.	ID: In.	Weight ¹ : lbs/ft	Recom. Hang Weight ² : lbs	Collapse Strength ¹ : PSI	Intake Area ³ - In ² /ft of Screen							
							Screen Slot Size in Thousandths of an Inch							
							10	20	30	40	50	60	80	100
6" P	250	6.6	6.0	6.3	5,100	266	25	46	63	77	90	100	118	132
	1,000	6.6	5.9	7.9	9,600	266	25	46	63	77	90	100	118	132
8" T	600	7.5	6.7	9.2	12,100	182	29	52	71	88	102	114	134	150
	1,000	7.7	6.7	16.6	24,100	573	19	37	52	65	77	88	106	121
8" P	250	8.6	7.9	10.4	13,300	121	33	59	82	101	117	131	153	172
	600	8.7	7.9	14.9	13,300	399	22	41	58	73	87	99	120	137
	1,000	8.8	7.9	18.8	26,500	385	22	42	59	74	88	100	121	139
10" T	250	9.3	8.6	11.7	19,000	96	35	64	88	109	126	141	166	186
	600	9.5	8.6	16.6	15,700	307	24	45	64	80	95	108	131	150
	1,000	9.6	8.6	21.1	31,300	297	24	46	64	81	96	109	132	151
10" P	100	10.6	9.8	13.0	16,800	65	40	73	101	124	144	161	189	211
	600	10.7	9.8	18.5	16,800	215	27	51	72	90	107	122	147	169
	1,000	10.8	9.8	23.3	33,600	209	27	51	72	91	108	123	149	170
12" T	100	11.2	10.4	14.1	19,300	55	43	77	106	131	152	170	200	223
	600	11.2	10.4	14.1	19,300	55	43	77	106	131	152	170	200	223
	1,000	11.4	10.4	25.4	38,500	178	29	54	76	96	114	130	157	180
12" P	100	12.6	11.8	15.2	19,300	39	48	87	120	147	171	191	225	251
	600	12.7	11.8	21.7	19,300	129	32	60	85	107	127	144	175	200
	1,000	12.8	11.8	27.2	38,500	126	32	61	86	108	128	145	176	202
14" T	100	12.3	11.6	14.0	15,700	42	47	85	117	144	167	187	220	245
	600	12.5	11.6	20.3	15,700	135	32	59	84	105	125	142	172	197
	1,000	12.7	11.6	31.7	31,300	348	25	47	67	85	102	117	145	168
14" P / 16" T	250	14.0	13.1	23.1	18,700	96	35	66	94	118	140	159	193	221
	600	14.1	13.1	30.6	18,700	255	27	52	74	94	113	130	160	187
	1,000	14.2	13.0	36.1	37,300	250	27	52	75	95	114	131	162	188

NOTES:

- Screens are available in up to 40 foot lengths of continuously wrapped screen with no mid-weld
 - P - pipe size, T - telescope
1. Based on 0.030 In. slot size (collapse values contain no safety factor)
 2. Recommended hang weight is 50 percent of the calculated tensile strength
 3. Transmitting capacity in gpm/ft of screen = open area x 0.31



JOHNSON SCREENS® LARGE DIAMETER HICAP™ SCREENS: SIZES 16P - 36P

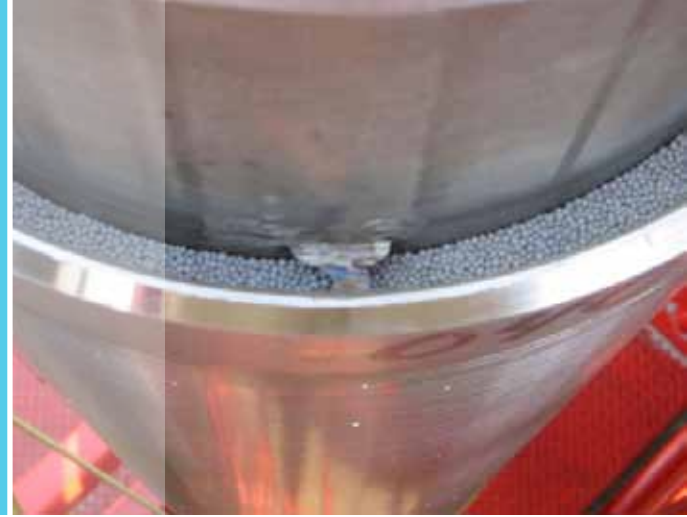
Size In.	Max Depth: ft	OD: In.	ID: In.	Weight ¹ : lbs/ft	Recom. Hang Weight ² : lbs	Collapse Strength ¹ : PSI	Intake Area ³ - In ² /ft of Screen							
							Screen Slot Size in Thousandths of an Inch							
							10	20	30	40	50	60	80	100
16" P / 18" T	250	16.0	15.0	26.4	21,100	65	40	76	107	135	160	182	220	252
	600	16.2	15.0	35.1	21,100	169	31	60	85	109	130	150	184	214
	1,000	16.1	14.8	40.9	42,100	172	31	59	85	108	129	149	183	213
18" P / 20" T	100	17.8	16.7	28.8	21,700	47	45	84	119	150	178	202	245	281
	600	17.9	16.7	35.1	21,700	125	35	66	94	120	144	165	204	237
	1,000	18.0	16.7	40.9	43,300	123	35	66	95	121	144	166	205	238
20" P	100	19.8	18.8	32.5	25,300	34	50	94	133	167	197	225	273	312
	600	20.0	18.8	43.1	25,300	90	39	74	105	134	160	185	228	265
24" T	100	21.8	20.7	35.9	28,900	26	55	103	146	184	217	248	300	344
	600	21.9	20.7	47.6	28,900	68	42	81	155	147	176	202	249	290
24" P / 26" T	250	24.2	22.8	57.1	48,100	51	47	89	127	162	194	223	275	320
26" P	250	25.8	24.4	61.0	51,700	42	50	100	143	173	207	238	294	341
30" T	250	27.2	25.8	63.5	51,700	36	52	100	143	182	217	250	308	358
30" P / 36" T	250	29.7	28.3	70.4	60,100	28	57	109	156	199	238	274	338	393

NOTES:

- Screens are available in up to 40 foot lengths of continuously wrapped screen with no mid-weld
 - P - pipe size, T - telescope
1. Based on 0.030 In. slot size (collapse values contain no safety factor)
 2. Recommended hang weight is 50 percent of the calculated tensile strength
 3. Transmitting capacity in gpm/ft of screen = open area x 0.31



TECHNICAL INFORMATION: JOHNSON SCREENS® MUNI-PAK™ PRE-PACKED WELL SCREENS



JOHNSON SCREENS MUNI-PAK SCREENS

Muni-Pak screens are pre-packed, providing numerous features and advantages for the contractor and well

owner. A smaller borehole, stronger construction, thinner filter pack and maximized open area all combine to

produce a time, money and energy saving well screen.

SPECIFICATIONS

Size ¹ In.	Approx. Screen ID In.	Approx. Screen OD In.	Media Annular Thickness In.	Inner Screen Open Area - In. ² /ft of Screen							Outer Screen Open Area - In. ² /ft of Screen							Approx. Screen Weight lbs/ft
				Screen Slot Size in Thousandths of an Inch							Screen Slot Size in Thousandths of an Inch							
				8	12	20	25	30	40	50	8	12	20	25	30	40	50	
2 x 4	2.2	4.5	0.85	11	15	22	26	30	36	41	20	28	42	50	57	68	77	17
3 x 5	3.0	5.7	0.97	16	22	33	39	44	53	60	25	36	54	63	72	86	98	23
4 x 6	4.0	6.7	0.94	20	28	42	50	57	68	77	30	42	63	74	84	101	115	25
5 x 7	5.0	7.7	0.87	25	35	53	62	71	85	96	34	48	73	85	97	116	132	27
6 x 8	6.0	8.7	0.84	20	29	45	54	62	77	89	27	39	60	71	82	101	117	35
8 x 10	8.0	10.8	0.84	27	38	59	71	81	100	116	33	48	74	89	102	125	145	55
10 x 12	10.0	12.8	0.84	26	38	60	72	83	104	122	31	45	71	86	99	124	145	70
12 x 15	12.0	15.0	0.84	31	45	71	85	99	123	145	36	53	83	100	116	145	170	85
14 x 16	13.2	16.0	0.64	36	52	81	98	113	141	165	41	59	93	112	129	161	188	100
16 x 18	15.2	18.0	0.64	41	59	93	112	129	161	188	46	67	104	126	145	181	212	115
18 x 20	17.0	20.0	0.78	39	57	90	109	127	160	188	44	64	101	122	141	177	209	128

MUNI-PAK SCREEN VS. STANDARD ROD BASED SCREEN

Nominal Size ² (In.)		Collapse Strength (PSI)		Tensile Strength (PSI)	
Rod Based	Muni-Pak	Rod Based	Muni-Pak	Rod Based	Muni-Pak
2	2 x 4	1,940	16,500	4,300	12,500
3	3 x 5	540	5,650	5,200	15,000
4	4 x 6	730	2,830	6,100	18,800
5	5 x 7	440	1,550	7,000	20,700
6	6 x 8	260	990	17,600	41,600
8	8 x 10	250	1,160	24,200	50,000
10	10 x 12	360	630	30,800	81,400
12	12 x 15	220	880	35,200	87,000
14	14 x 16	170	1,110	35,200	95,400
16	16 x 18	170	760	72,200	135,900
18	18 x 20	130	540	74,200	147,200

STANDARD FILTER PACK SIZES

Slot Size In.	Carbolite Size	Filter Pack
0.008	n/a	40/60
0.012	20/40	20/40
0.020	16/20	16/30
0.025	n/a	10/20
0.030	12/18	n/a
0.040	8/14	8/12
0.050	6/12	n/a

NOTES:

- Other sizes available upon request
- Values compare 1,000 ft of Muni-Pak vs 1,000 ft of rod based screen

TECHNICAL INFORMATION: JOHNSON SCREENS® PIPE BASED WELL SCREENS



JOHNSON SCREENS PIPE BASED WELL SCREENS



Pipe based well screens combine the hydraulic efficiency of wire-wound screens with the great strength of pipe. Because of the strength of the pipe liner, the wrap wires can be smaller, which produces greater open area.

The longitudinal support rods on the screen jacket create channels which direct incoming flow to the nearest pipe perforation. Screen and pipe are welded to make a rugged, reliable unit suitable for deep vertical wells, as well as horizontal remediation and supply wells.

JOHNSON SCREENS STAINLESS STEEL PIPE BASED WELL SCREENS

Size In.	Pipe OD In.	Pipe Open Area Per Foot In. ²	Screen OD In.	Approx. Weight lbs	Open Area - In ² /ft of Screen				
					Screen Slot Size in Thousandths of an Inch				
					10	15	20	25	30
1.5	1.90	7.95	2.40	4	9.0	12.9	16.5	19.7	22.6
2.0	2.38	9.28	2.90	5	10.9	15.6	19.9	23.8	27.3
2.5	2.88	10.60	3.40	7	12.8	18.3	23.3	27.9	32.0
3.0	3.50	11.93	4.00	10	15.1	21.5	27.4	32.8	37.7
4.0	4.50	28.27	5.00	14	18.8	26.9	34.3	41.0	47.1
5.0	5.56	35.34	6.10	17	23.0	32.9	41.8	50.0	57.5
6.0	6.63	40.06	7.10	24	26.8	38.2	48.7	58.2	66.9
7.0	7.00	37.70	7.50	35	28.3	40.4	51.4	61.5	70.7
7.625	7.63	42.41	8.10	44	30.5	43.6	55.5	66.4	76.3
8	8.63	49.48	9.10	38	34.3	49.0	62.4	74.6	85.8
9.625	9.63	49.48	10.10	41	38.1	54.4	69.2	82.8	95.2
10.0	10.75	56.55	11.30	49	42.6	60.9	77.5	92.6	106.5
12.0	12.75	65.97	12.30	60	46.8	66.9	85.1	101.7	116.9
14.0	14.00	70.69	14.50	69	55.2	78.8	100.3	119.9	137.8
16.0	16.00	75.40	16.50	78	62.8	89.7	114.1	136.4	156.8
18.0	18.00	84.82	18.50	85	70.4	100.6	128.0	152.9	175.8

NOTES:

- Weight is based on standard wall pipe, except for 7.625 In.

TECHNICAL INFORMATION: JOHNSON SCREENS® CASINGS



JOHNSON SCREENS OFFERS A VARIETY OF CASINGS TO SUIT MANY WELL APPLICATIONS

COMMON 304 STAINLESS STEEL CASINGS

Pipe Size Nom. Diam. In.	Sch.	OD In.	ID In.	Weight Per ft	Collapse Strength PSI
1.0	5	1.315	1.185	0.88	2,445
	10		1.097	1.42	
	40		1.049	1.70	
1.25	5	1.660	1.530	1.12	1,362
	10		1.442	1.82	3,271
	40		1.380	2.29	4,736
1.5	5	1.900	1,770	1.29	1,074
	10		1,682	2.10	2,704
	40		1,610	2.74	4,177
2.0	5	2.375	2.245	1.62	650
	10		2.157	2.66	1,824
	40		2.067	3.69	3,208
3.0	5	3.500	3.334	3.06	468
	10		3.260	4.37	1,050
	40		3.068	7.65	2,972
4.0	5	4.500	4.334	3.95	253
	10		4.260	5.67	614
	40		4.026	10.90	2,303
5.0	5	5.563	5.345	6.41	295
	10		2.295	7.84	486
	40		5.047	14.75	1,854
6.0	5	6.625	6.407	7.66	189
	10		6.357	9.38	319
	40		6.065	19.15	1,570
8.0	10	8.625	8.329	13.53	210
	40		7.981	28.82	1,243
10.0	10	10.750	10.420	18.83	157
	40		10.020	40.86	1,030
12.0	10	12.750	12.390	24.39	126
	0.375*		12.000	50.03	762

* Standard wall

COMMON SCH 40 LOW CARBON STEEL CASINGS

Pipe Size Nom. Diam. In.	OD In.	ID In.	Weight Per ft	Collapse Strength PSI
1.0	1.315	1.049	1.68	6,127
1.25	1.660	1,380	2.27	4,743
1.5	1.900	1,610	2.72	4,185
2.0	2.375	2.067	3.65	3,219
3.0	3.500	3.068	7.58	2,983
4.0	4.500	4.026	10.79	2,316
5.0	5.563	5.047	14.62	1,869
6.0	6.625	6.065	18.97	1,585
8.0	8.625	7.981	28.55	1,259
10.0	10.750	10.020	40.48	1,045
12.0*	12.750	12.000	49.56	776



FORMAT FOR SPECIFYING JOHNSON SCREENS



WELL SCREENS

GENERAL: Well screens shall be of the continuous slot design to provide maximum open area, to reduce entrance velocity, increase hydraulic efficiency and promote more effective development. The well screens shall be constructed out of Vee-Wire® trapezoidal wire, continuously wrapped around an array of equally spaced support rods of the same material. Each junction of wire/rod contact shall be resistance welded. The screens and end fittings shall be made of _____ (material). The well screens shall be manufactured by Johnson Screens, or approved equal.

COLLAPSE STRENGTH: Well screens to be ____ inches OD, continuous slot wire-wrapped _____ (material), designed to withstand a minimum collapse pressure of ____ psi for a ____ inch slot opening. The surface wire shape shall cause the slot opening to widen inwardly to minimize clogging. Surface wrap-wire height shall be ____ inch to provide the desired collapse strength. The wrap-wire face width shall be of minimum dimensions to provide ____ percent open area at the anticipated ____ inch slot opening.

TENSILE STRENGTH: The minimum screen tensile strength must exceed at least twice the total weight of the screen and any standard wall blank casing suspended below the top screen joint. The tensile strength shall be a minimum of ____ pounds. (Tensile strength is total rod area times material yield strength).

SCREEN CONFIGURATION: Screens shall be manufactured in various lengths complete with _____ (material) weld rings attached to each end. The weld rings shall be standard available lengths as requested by the contractor and approved by the engineer.

SCREEN SUBMITTALS

Upon request, the screen manufacturer shall provide a submittal and schematic drawing of the proposed screen design. The documents shall include the OD, ID, construction materials, slot size, approximate weight per foot, wrap wire length, wrap wire height, collapse strength, percent open area, inlet open area per foot, transmitting capacity per foot, number of support rods, diameter of support rods, total cross sectional rod area, material yield strength, tensile strength, column load and recommended hang weight.

MUNI-PAK™ SCREENS

GENERAL: *Muni-Pak* screens shall be of the continuous slot design to provide maximum open area, to reduce entrance velocity, increase hydraulic efficiency and promote more effective development. Both the inner and outer screens shall be constructed out of Vee-Wire® trapezoidal wire, continuously wrapped around an array of equally spaced support rods of the same material. Each junction of wire/rod contact shall be resistance welded. The screens and end fittings shall be made of _____ (material). The well screens shall be manufactured by Johnson Screens, or approved equal.

DIAMETER: The *Muni-Pak* screen shall be ____ inch pipe size inner screen by ____ inch pipe size outer screen.

COLLAPSE: The dual screen assembly shall be manufactured with a wrap wire designed to yield a minimum collapse pressure of ____ psi at a design slot opening of ____ inches. The wire shape shall cause the slot opening to widen inwardly to minimize clogging.

OPEN AREA: The inner screen shall provide ____ square inches of inlet area per foot of screen at the design slot size. The outer screen shall be of the same slot as the inner screen. The slot size and filter pack are to be selected on the basis of a sieve analysis of the water bearing formation.

FILTER PACK: The annulus between screens shall be filled with ceramic or glass beads of uniform size and excellent sphericity. The pack size shall be ____ filter size. The pack material shall be installed and compacted by vibrating the unit in a vertical position, while being filled. The top and bottom filter seal plates shall be secured by welding.

TENSILE STRENGTH: The minimum screen tensile strength must exceed at least twice the total hang weight of the screen and blank casing below the top screen joint. The tensile strength shall be a minimum of ____ pounds. (Tensile strength is total rod area times material yield strength).

SCREEN CONFIGURATION: Screens shall be manufactured in various lengths with a maximum of 40 feet length overall. Screens shall be complete with _____ (material) and fittings attached to each end. Standard weld rings are six inches. Weld rings of longer lengths, or threaded fittings may be requested. Screen barrels shall be provided in standard ____ (overall or full) lengths which ____ (include or exclude) the weld ring lengths. Lengths and end fitting configuration to be requested by the contractor and approved by the engineer.

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