



# Canadian Pipe & Pump Supply

Toronto – Orillia – Tillsonburg – Ottawa

[www.canpipe.com](http://www.canpipe.com)

**Johnson** screens™

A Weatherford Company



**THE WORLD'S BEST  
DESIGNED WATER WELLS  
USE JOHNSON SCREENS**

**Toronto - HO**

65 Enterprise Rd.  
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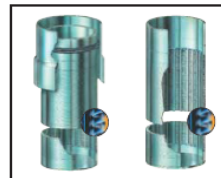
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## SMALL DIAMETER FREE-FLOW™ WELL SCREENS

Waterwell and Environmental - W60 Construction - 304 and 316 Stainless Steel															
Size	OD in	Clear ID in	Wire Width in	Screen Wt/Ft* lbs	Max Depth ft	Tensile Strength lbs (1)	Recom. Hang Wt. lbs (2)	Column Strength lbs (3)	Open Area - sq.in. / ft-screen Collapse Strength - PSI (4)						
									Screen Slot Size in thousandths of an inch						
									7	10	12	20	30	40	50
1-1/4	1.7	1.1	0.060	1.8	1000	4200	2100	3100	6.9 5,901	9.4 5,648	10.9 5,491	16.4 4,942	21.9 4,393	26.2 3,954	29.8 3,594
2P **	2.5	1.9	0.060	1.9	1000	2000	1000	1500	9.7 2,094	13.3 2,004	15.5 1,948	23.3 1,754	31.0 1,559	37.2 1,403	42.3 1,275
2P/3T	2.6	2.0	0.060	2.2	1000	3400	1700	2600	10.1 1,883	13.8 1,802	16.1 1,752	24.1 1,577	32.2 1,402	38.6 1,262	43.9 1,147
2.5P	3.0	2.4	0.060	2.6	1000	4200	2100	3100	11.9 1,164	16.2 1,114	18.9 1,083	28.4 975	37.8 867	45.4 780	51.6 709
3P **	3.6	2.9	0.060	2.9	1000	4200	2100	3100	14.0 713	19.1 682	22.3 663	33.5 597	44.6 531	53.5 478	60.8 434
3P/4T	3.7	3.1	0.060	3.0	1000	4200	2100	3100	14.5 635	19.9 608	23.2 591	34.8 532	46.4 473	55.6 426	63.2 387
4P **	4.6	4.0	0.060	3.7	600	4800	2400	3700	17.9 340	24.5 326	28.6 317	42.9 285	57.2 253	68.6 228	78.0 207
4P/5T	4.7	4.1	0.060	3.8	600	4800	2400	3700	18.6 307	25.4 294	29.6 286	44.4 257	59.2 229	71.0 206	80.7 187
5P/6T	5.6	5.0	0.060	4.5	400	5600	2800	4200	22.1 182	30.2 174	35.2 170	52.9 153	70.5 136	84.6 122	96.1 111

Waterwell and Environmental - W90 Construction - 304 and 316 Stainless Steel															
Size	OD in	Clear ID in	Wire Width in	Screen Wt/Ft* lbs	Max Depth ft	Tensile Strength lbs (1)	Recom. Hang Wt. lbs(2)	Column Strength lbs (3)	Open Area - sq.in. / ft-screen Collapse Strength - PSI (4)						
									Screen Slot Size in thousandths of an inch						
									7	10	12	20	30	40	50
1-1/4	1.7	1.1	0.089	1.5	600	4200	2100	3100	4.6 2,343	6.4 2,272	7.6 2,227	11.7 2,063	16.1 1,890	19.8 1,743	22.9 1,618
2P **	2.4	1.9	0.089	1.5	600	2000	1000	1500	6.6 817	9.2 792	10.8 776	16.7 719	22.9 659	28.2 608	32.7 564
2P/3T	2.5	2.0	0.089	1.7	600	3400	1700	2600	6.9 724	9.6 702	11.2 688	17.4 637	23.9 584	29.3 538	34.0 500
2.5P	3.0	2.4	0.089	2.1	600	4200	2100	3100	8.1 443	11.3 429	13.3 421	20.5 390	28.1 357	34.6 330	40.1 306
3P **	3.5	2.9	0.089	2.3	600	4200	2100	3100	9.6 269	13.3 261	15.7 255	24.2 237	33.3 217	40.9 200	47.5 186
3P/4T	3.7	3.1	0.089	2.4	600	4200	2100	3100	10.0 239	13.9 232	16.3 227	25.2 211	34.6 193	42.6 178	49.4 165
4P **	4.5	4.0	0.089	2.9	250	4800	2400	3700	12.4 127	17.1 123	20.2 121	31.1 112	42.8 102	52.6 94	61.0 88
4P/5T	4.7	4.1	0.089	3.0	250	4800	2400	3700	12.8 114	17.7 111	20.9 109	32.2 101	44.3 92	54.5 85	63.2 79
5P/6T	5.6	5.0	0.089	3.5	100	5600	2800	4200	15.3 67	21.2 65	24.9 64	38.5 59	52.8 54	65.0 50	75.4 47

\*Weight based on 10-slot construction (no fittings)  
 (1) Tensile and Column Strength includes 30% safety factor.  
 (2) Hang weight is 50% of calculated tensile strength.  
 (3) Column strength is based on 5-ft screen barrel length.  
 (4) Calculated collapse values - No safety factor.  
 Transmitting Capacity in gpm/ft-screen = Open Area x 0.31  
 (assumes entrance velocity = 0.1 ft/sec.)  
 \*\*Alternate Construction for Environmental Applications  
 P - Pipe Size  
 T - Telescope



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.

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## FREE-FLOW™ 304 STAINLESS STEEL SCREEN

Large Diameter FREE FLOW™																
Size	Max Depth Ft	OD in	ID in	Weight lbs/ft (1)	Recom. Hang Wt (2)	Collapse PSI (1)	Intake Area (3) - sq. in. / ft-screen									
							Screen slot size in thousandths of an inch									
							10	15	20	25	30	40	50	60	80	100
6" P	100	6.7	6.0	4.4	4300	82	36	50	63	74	84	100	114	125	143	157
	250	6.7	6.0	4.8	4300	185	20	29	37	45	52	65	76	86	103	117
	600	6.7	5.9	6.0	8800	184	20	29	37	45	52	65	76	86	103	117
	1000	6.8	5.9	7.7	8800	683	16	23	30	36	43	54	64	73	89	102
8" T	250	7.6	6.8	7.0	11000	129	23	33	42	51	59	73	86	97	116	132
	1000	7.6	6.8	8.9	11000	480	18	26	34	41	48	61	72	82	100	115
8" P	250	8.7	7.9	7.9	12100	85	26	37	48	58	67	84	99	112	134	152
	1000	8.8	7.9	10.1	12100	319	21	30	39	47	55	69	82	94	115	132
10" T	250	9.5	8.7	8.9	14300	65	28	41	53	64	74	92	108	122	146	166
	1000	9.6	8.7	11.3	14300	244	23	33	42	52	60	76	90	103	125	144
10" P	600	10.8	9.9	12.6	15400	171	25	37	48	58	68	86	102	116	141	162
	1000	10.8	9.9	18.8	15400	479	26	37	48	58	68	86	102	117	142	163
12" T	600	11.3	10.4	13.6	17600	147	27	39	50	61	71	90	107	122	149	171
	1000	11.4	10.4	20.1	17600	413	27	39	51	61	72	90	107	123	149	172
12" P	250	12.8	11.9	14.7	17600	103	30	44	57	69	80	101	120	138	167	193
	600	12.8	11.9	22.0	17600	290	30	44	57	69	81	102	121	138	168	194
12" P	1000	12.9	11.9	22.0	17600	290	29	42	55	66	78	98	117	134	163	188
	250	12.5	11.6	14.4	14300	110	29	43	55	67	79	99	118	135	164	188
14" T	600	12.6	11.6	20.8	14300	310	30	43	56	68	79	100	118	135	165	189
	1000	12.6	11.6	20.8	14300	310	28	41	53	65	76	96	114	131	160	184
14" P / 16" T	250	14.0	13.1	15.5	17000	78	33	48	62	75	88	111	132	151	184	211
	600	14.1	13.1	23.5	17000	222	33	48	62	76	88	112	133	151	184	212
	1000	14.1	13.1	23.5	17000	222	32	46	60	73	85	107	128	146	179	206
16" P / 18" T	100	16.1	15.1	17.8	19200	52	38	55	71	87	101	128	151	173	211	242
	250	16.1	15.1	25.5	19200	147	38	55	72	87	101	128	152	174	212	243
	600	16.2	15.1	26.9	19200	147	36	53	69	83	97	123	147	168	205	236
	1000	16.3	15.0	33.8	36000	147	40	59	76	92	107	135	160	183	222	254
18" P / 20" T	100	17.8	16.8	19.3	19800	38	42	61	79	96	112	141	168	192	234	269
	250	17.9	16.8	29.4	19800	109	40	59	76	92	108	136	162	186	227	262
	600	18.1	16.8	29.4	19800	109	45	65	84	102	119	150	177	202	245	281
	1000	18.1	16.7	36.5	37000	106	45	65	84	102	119	150	177	202	245	281
20" P	100	19.9	18.8	21.8	23100	27	47	68	88	107	125	158	187	214	261	300
	250	20.0	18.8	33.0	23100	78	47	68	88	107	125	158	188	215	261	301
	600	20.1	18.8	33.0	23100	78	50	73	94	114	132	167	198	225	273	314
	1000	20.1	18.8	41.3	43300	77	50	72	94	114	132	167	198	225	273	313
24" T	100	21.9	20.7	36.5	26400	59	52	75	97	118	137	174	206	236	287	330
	250	21.9	20.7	36.5	26400	59	49	72	93	113	132	167	199	227	278	320
	600	22.1	20.7	36.5	26400	59	55	79	103	124	145	183	217	247	300	344
	1000	22.2	20.7	66.6	49400	146	42	61	80	97	114	145	174	201	248	288
24" P / 26" T	100	24.1	22.8	38.3	22000	45	54	79	102	124	145	184	218	250	305	352
	250	24.3	22.8	38.3	22000	45	60	87	113	137	159	201	238	272	329	378
	1000	24.4	22.8	68.9	41200	110	46	67	87	107	125	160	191	220	272	317
26" P	100	25.7	24.4	40.8	23600	37	58	84	109	132	155	196	233	267	326	375
	250	25.8	24.4	40.8	23600	37	64	93	120	146	170	214	254	289	351	402
	1000	26.0	24.4	73.5	44300	91	49	72	93	114	134	170	204	235	290	338
30" T	100	27.1	25.7	42.6	23600	32	61	88	115	139	163	206	245	281	343	395
	250	27.2	25.7	42.6	23600	32	67	98	126	153	179	225	267	304	369	423
	1000	27.3	25.7	76.6	44300	78	52	75	98	120	140	179	215	247	305	355
30" P / 36" T	100	29.6	28.3	47.1	27500	24	66	97	125	152	178	225	268	307	375	432
	250	29.7	28.3	47.1	27500	24	74	107	138	168	195	246	292	333	404	463
	1000	29.9	28.3	84.8	51500	60	56	82	107	131	154	196	235	270	334	388
36" P	100	35.7	34.3	68.8	31900	15	89	129	166	202	235	296	351	400	485	556
	600	35.9	34.3	101.1	59800	34	68	99	129	157	184	235	282	325	401	466

(1) Based on .030" Slot Size (Collapse values contain NO safety factor.)

(2) Recommended Hang Weight is 50% of the Calculated Tensile Strength

(3) Transmitting Capacity (GPM/ft) = Open area (sq.in/ft) x 0.31

Screens are available in up to 40-foot lengths of continuously wrapped screen with no mid-weld. 316 stainless steel technical information is available on request.

P- Pipe Size

T- Telescope Size

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## FITTINGS



## END FITTING OPTIONS

- Flush Threads
  - Sch 40
  - Sch 80
- NPT Thread
- Weld Ring

- Plate Bottom
- Threaded Point
- Threaded Cap/Plug
- Locking Cap
- Beveled Ends



Most well screen installations involve a few standard fitting combination. Telescope size screens, for example, typically use a Figure K packer on the screen top and a welded or threaded plate bottom. The plate usually has a welded bail attached to use when lowering the screen. Pipe size screens attach directly to the casing and usually have plate bottoms. A variety of other fittings such as centralizers, shale traps, washdown fittings and connecting fittings are stocked for quick delivery.

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