

Small Diameter Stainless Steel Well 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 - sq. in./ft. of Screen							Collapse Strength ⁵ - PSI						
	Screen Slot Size (thousandths of an in.)							Screen Slot Size (thousandths of an in.)						
	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

* Alternate constructions for water well and environmental

** ID confirmed clear for environmental with Sch. 40 fittings only (Sch. 80 is smaller)

1. Weight is based on 10 slot construction, no fittings
2. Tensile and column strengths include a 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

Notes:

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



Water Well and Environmental Screens 90 Wire Construction 304 and 316

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	1.5	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 (in.)	Open Area - sq in./ft. of Screen							Collapse Strength ⁵ - PSI						
	Screen Slot Size (thousandths of an in.)							Screen Slot Size (thousandths of an in.)						
	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

* Alternate constructions for water well and environmental

** ID confirmed clear for environmental with Sch. 40 fittings only (Sch. 80 is smaller)

1. Weight is based on 10 slot construction, no fittings
2. Tensile and column strengths include a 30 percent safety factor
3. Recommended hang weight is 50 percent of calculated tensile strength
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Notes:

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