

WILDCATTER™

All-welded wrap-on pipe sand control screen

The Wildcatter all-welded wrap-on pipe screen represents an innovative process whereby the wire jacket is shrink-fit to the perforated base pipe. The result is an all-welded, wrap-on pipe screen with the same features and benefits of a conventional slip-on type wire-wrapped screen. Additionally, the process creates a tighter grip between the wire jacket and the base pipe along its entire length, thus increasing collapse strength.

It has been used successfully in deep, high pressure, high temperature and highly deviated wells. The Wildcatter screen can be modified to meet a wide variety of well applications including water flood, water source, injection and waste disposal.

These screens feature an all-welded continuous gauge wedge or V-shaped wire that produces a self-cleaning action for greater flow and less chance of plugging, and is manufactured by a

sophisticated, electronically controlled fusion-welding process. Each screen is custom-built to exact specifications and expected well conditions using a wide range of wrap wire and base pipe alloys. The Wildcatter provides maximum flow area, high well efficiencies and superior tensile strength for dependability and long well life. Wildcatter screens come in a full range of sizes with base pipe ODs from 1.9 in. to 7.0 in.



Applications

- Used most often in gravel-packed completions where increased collapse strength is needed
- Economical and effective in wide range of applications from HP/HT wells to water wells
- Effective in wells with extreme lengths, severe doglegs and the tortuous environment of open-hole completions.

ALLOY SCREEN WORKS

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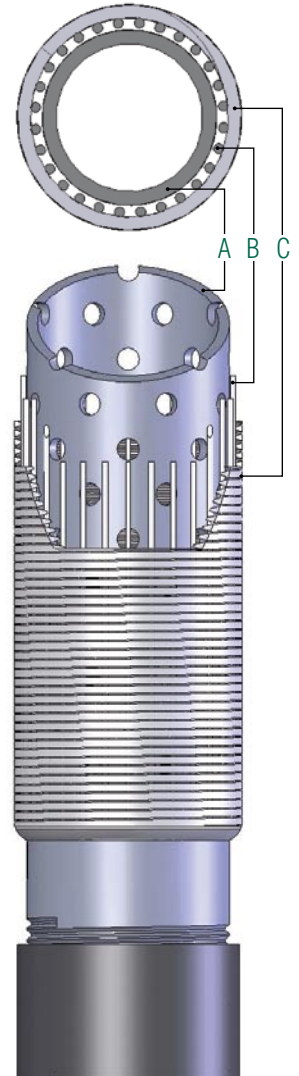
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Advantages

- Wrap-on pipe design provides greater collapse strength
- High number of ribs for greater collapse resistance and reduced “necking” at the weld to ensure consistent slot size
- Self-cleaning design provides consistent, clog-free performance
- Increased roundness lowers rotation resistance and results in less duning
- Choice of wrap wire and base pipe alloys allows for custom engineering to match specific production environments
- Purpose built for oil, gas or water producing wells and injectors, as well as waterflood and disposal wells.

- A. Base pipe (alloy and hole size/pattern per customer specs)
- B. Rib wire (to specs)
- C. Screen wrap wire +/- 0.016 (alloy and dimensions per customer specs)



Base Pipe			Perforations				Screen	
OD (in.)	Weight (lb/ft)	Coupling (API-NU/in.)	Size (in.)	Holes/ft	Open Area (sq in./ft)	Area of Pipe (sq in./ft)	OD (in.)	Cylinder Area (sq in./ft)
1.900	2.75	2.200	3/8	84	9.28	71.63	2.360	88.92
2.063	3.25	IJ	3/8	84	9.28	77.77	2.523	95.07
2.378	4.60	2.875	3/8	96	10.60	89.54	2.835	106.82
2.875	6.40	3.500	3/8	108	11.93	108.39	3.335	125.66
3.500	9.20	3.938	3/8	132	14.58	131.95	3.960	142.21
4.000	9.50	4.500	3/8	144	15.90	150.88	4.460	168.05
4.500	11.60	5.000	3/8	156	17.23	169.65	4.960	186.89
5.000	15.00	5.563	3/8	168	18.56	188.50	5.460	205.73
5.500	15.50	6.050	3/8	180	19.88	207.35	5.960	224.57
6.625	24.00	7.390	3/8	216	23.86	249.76	6.710	252.83
7.000	23.00	7.656	3/8	228	25.18	263.89	7.460	281.09

Gap (in.)	Slot Factor	
	.090 Wrap	.060 Wrap
0.008	0.082	0.118
0.010	0.100	0.143
0.012	0.118	0.171
0.016	0.151	0.211
0.020	0.182	0.250

Inlet Area = Slot Factor x Cylinder Area

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