

PIONEER/TT™

Pipe-based, wire-wrapped sand control screen for thru-tubing applications

The Pioneer/TT pipe-based, wire-wrapped, all-welded screen is a cost-effective sand control system designed for thru-tubing applications. It has been used successfully in deep, high pressure, high temperature and highly deviated wells. The screen can be modified to meet a wide variety of well applications including steam, water flood, water source, injection and waste disposal.

Pioneer/TT screens come in a full range of sizes starting with a base pipe OD of 1.05 in.

Worldwide, almost 50% of all oil and gas well sand screens run are the wire wrapped, continuous slot design. Our 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. The Pioneer/TT sand screen is manufactured by a

sophisticated, electronically controlled fusion-welding process. These screens are custom-built to exact specifications and expected well conditions using a wide range of wrap wire and base pipe alloys. They provide maximum flow area, high well efficiencies and superior tensile strength for dependability and long well life.



Base pipe

high-strength, perforated API tubulars (alloy and hole size/pattern per customer specs).

Rib wire

the unique structure of the rib wire combined with the swaging process of the design provides tensile and collapse strength to the wrap wire.

Screen wrap wire

V-shaped wire provides a self-cleaning action for greater flow and less chance of plugging (alloy and dimensions per customer specs).

Applications

- Used most often in slim hole gravel-packed completions
- Economical and effective in wide range of applications from HP/HT wells to water wells.

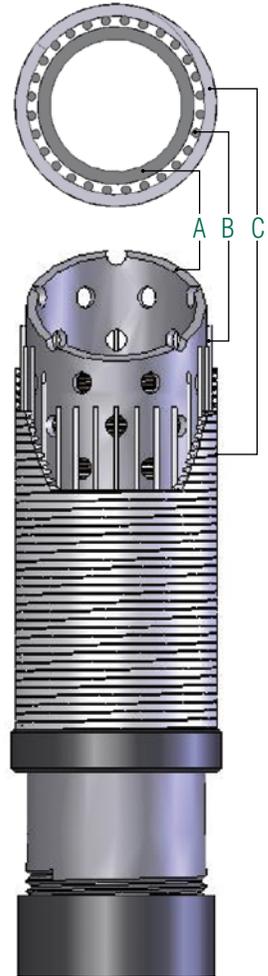
ALLOY SCREEN WORKS

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Advantages

- Slim profile makes it easy to run in close tolerance applications
- 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, steamflood and disposal wells
- Designed not to separate when pulled or “nest” when milled, provides a more field-friendly screen
- More effective than slotted liners.

- 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.)	ID (in.)	Weight (lb/ft)	Coupling OD (in.)	Size (in.)	Holes/ft	Open Area (sq in./ft)	Area of Pipe (sq in./ft)	OD (in.)	Cylinder Area (sq in./ft)	Nominal Diameter (in.)	.006 GA Inlet Area (sq in./ft)
1.050	0.824	1.14	1.313	3/8	60	6.66	39.58	1.34	50.42	0.75	4.59
1.315	1.049	1.70	1.660	3/8	60	6.66	49.57	1.60	60.40	1.00	5.50
1.660	1.380	2.30	2.050	3/8	72	7.95	62.58	2.14	80.62	1.25	7.33
1.900	1.610	2.75	2.200	3/8	84	9.28	71.63	2.37	89.45	1.50	8.14
2.063	1.750	3.25	IJ	3/8	84	9.28	77.77	2.54	95.59	2.0625	8.67