

# 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.

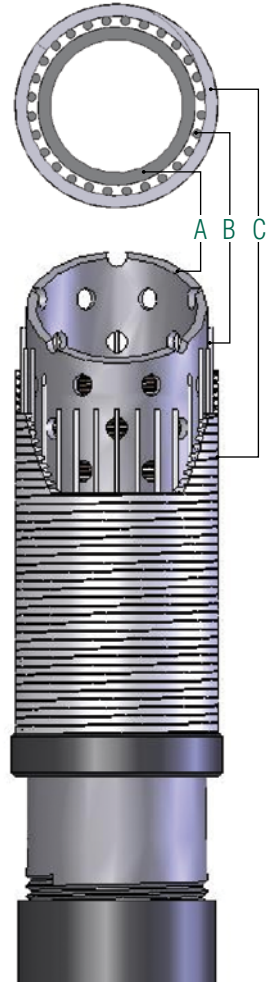
## ALLOY SCREEN WORKS

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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