

PRE-PACK SCREENS

Rod-based, wire-wrapped sand control screens

Pre-Pack Screens for Municipal and Industrial Water Well Applications

The Pre-Pack rod-based, wedge-wire wrapped, all welded screen eliminates the need to under-ream and gravel pack a conventional (vertical) well. This product can also be used as a liner to repair older wells that have started to pump sand. Pre-Pack Screens have also gained acceptance in the radial collector well market as a time saving and cost efficient alternative to gravel packing collector screens on site, as it assures a thin, uniform, consistent, and void free pack completely surrounds the screen assembly.

Pre-Pack Screens consist of an inner and outer wedge-wire rod-based screen. The slot size of the inner and outer screen is determined by the size and type of filter media used. The filter media used is dependent on the sieve analysis results of the formation sands that are to be controlled.

Advantages

- Eliminates larger bore hole
- Reduces drilling time (eliminates need to under-ream)
- Simple installation (no gravel pack needed)
- Choice of packing materials (ceramic and glass beads)

Pre-Pack Slot Selection

1. Perform sieve analysis on formation
2. Choose the 70% retained size of the finest formation sample
3. Multiply the 70% retained size by 4 and 6 to determine the size of the filter media
4. Determine Pre-Pack slot size at 100% retention of selected filter media

Slot Size (in)	Ceramic Size	Glass Bead Size
.125	n/a	3.40 – 4.00 mm
.100	n/a	2.85 – 3.45 mm
.060	n/a	2.00 – 2.40 mm
.030	8-12 / 8-16	1.00 – 1.30 mm
.020	12-18	0.75 – 1.00 mm
.016	16-20	0.50 – 0.75 mm
.012	20-40	0.40 – 0.60 mm
.008	30-60	0.25 – .050 mm

Information Needed to Quote

- Material of Construction: 304L SS, 316L SS, Other (Please Specify)
- Pipe Size of Inner Screen
- Pipe Size of Outer Screen
- Filter Media Type: Ceramic Beads, Glass Beads, Other (Please Specify)
- Depth of Setting
- Screen Length
- ID or OD Connections

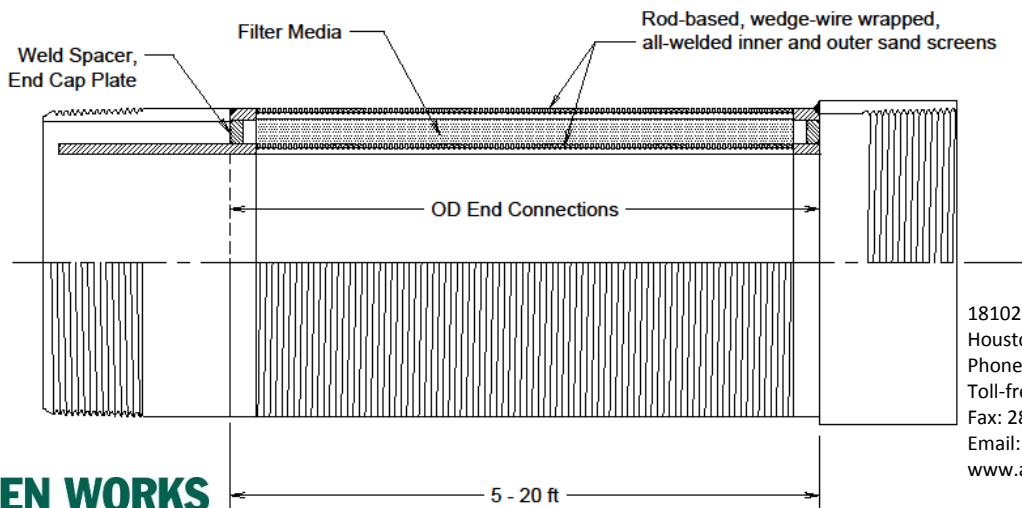
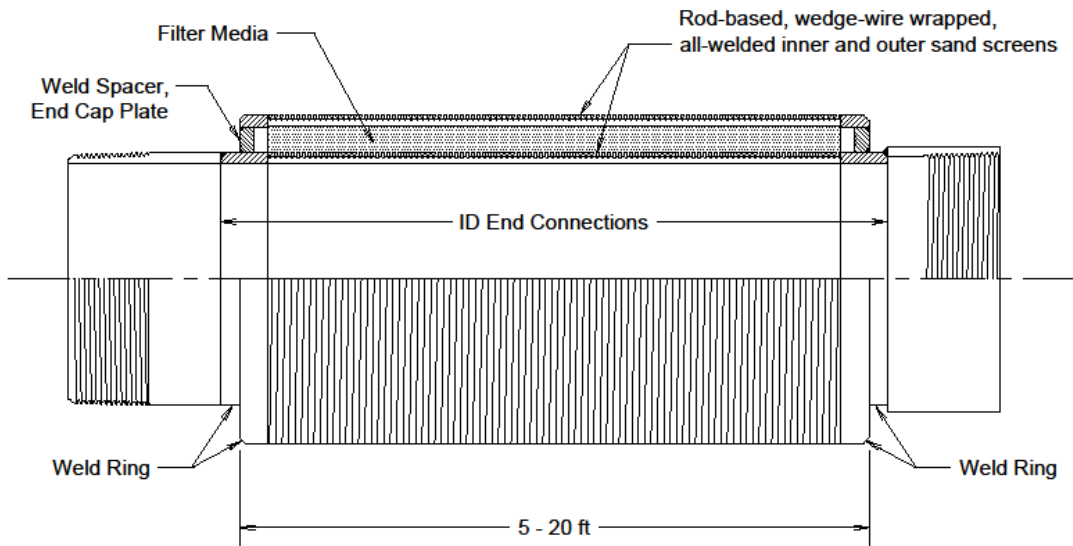
Common Sizes

Size	Approx. Screen ID	Approx. Screen OD	Media Annular Thickness
2 x 4	2.0	4.5	0.88
3 x 5	3.0	5.7	0.85
4 x 6	4.0	6.7	0.75
5 x 7	5.0	7.5	0.79
6 x 8	6.0	8.7	0.79
8 x 10	8.0	10.8	0.79
10 x 12	10.0	12.8	0.78
12 x 14	12.0	14.0	0.46
14 x 16	13.1	16.0	0.75
16 x 18	15.1	18.0	0.75
18 x 20	17.0	20.0	0.75

- Applications**
- Municipal Water Wells
 - Industrial Water Wells
 - Radial Collector Wells
 - Numerous Workover Applications
 - Horizontal Water Wells

Other sizes available on request

Rod-Based Pre-Pack Screen Assembly



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