

# *Odessa Separator, Inc*

Your Source For Sand Screen Needs  
1610 S Regal Rd. ” Odessa, Texas 79763  
Phone 432-580-7111 Email [odsep@odessaseparator.com](mailto:odsep@odessaseparator.com)



## **Types of Sand**

In choosing a filter size it is important to know what type of sand is causing the problem.

There are two main types of sand:

**Formation Sand:** This sand is smaller than other sands and is usually irregular in size.

**Frac Sand:** This sand is larger than formation sand and is very uniform. Frac sand is usually the most abrasive.

## **What is a slot size ?**

A slot size is the opening or gap between the Vee-wires which determines the filtration size. (Example: an 18 slot screen has an opening of 18/1000ths)

## **How do I determine a slot size?**

Larger slot the openings will have less plugging. Ideally, you want to filter out 70% of the sand. Normal recommendations are 18 to 25 slot for frac sand and 12 slot for formation sand.

## **How do I determine the length ?**

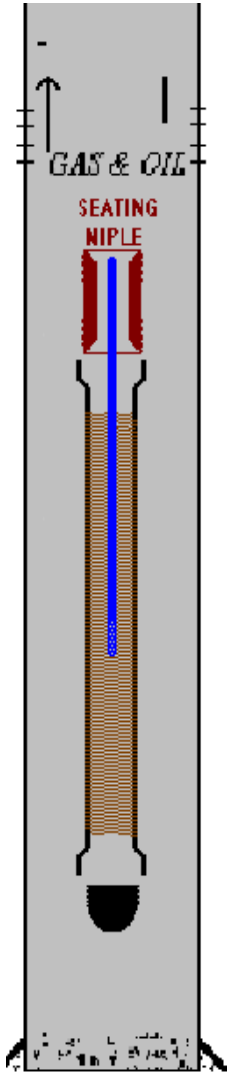
Length is a critical factor in sand screen use. Most plugging occurs when the sand velocity is too fast causing sand to become wedged in the opening. The longer the length the slower the velocity will be. Six to eight foot lengths are recommended.

## **Can I re-use a sand screen ?**

In most cases the re-use of a sand screen is not recommended.

If you reuse a sand screen that is partially plugged it will have a shorter run life. The pulling cost incurred, would greatly outweigh any savings that a used sand screen would provide.

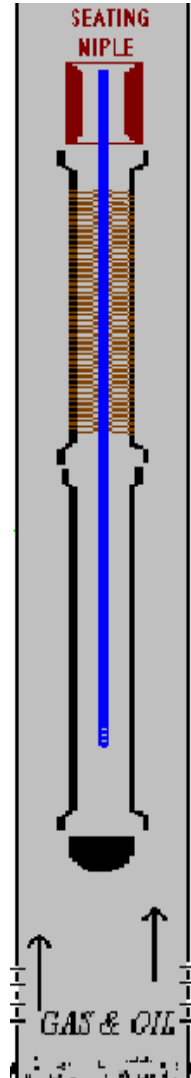
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Configuration 3

← CASING PERFORATIONS

In this configuration a tubing screen is placed below the casing perforations. The tubing screen is screwed to the bottom of the seating nipple and a standard bull plug is installed on the other end. A 6' gas anchor is placed inside the tubing screen which allows the pump to draw from the center of the screen. This design will maximize gas separation.



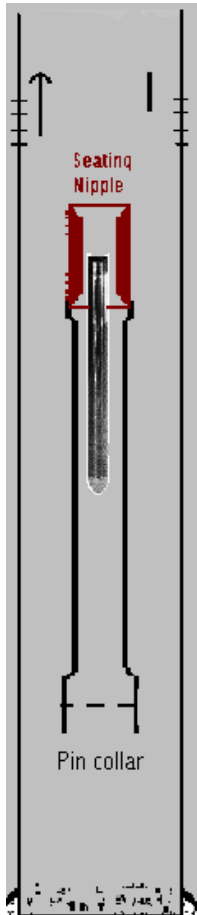
Configuration 4

← CASING PERFORATIONS

In this configuration a tubing screen is placed above the casing perforations. The tubing screen is screwed to the bottom of the seating nipple and a joint of pipe with a bull plug installed is attached to the other end. A long gas anchor attached to the rod pump draws from the bottom joint below the tubing screen. This allows the screen to be the opening in a standard gas separator, which will replace your perforated sub. This design works well when you are filtering sand and gas.

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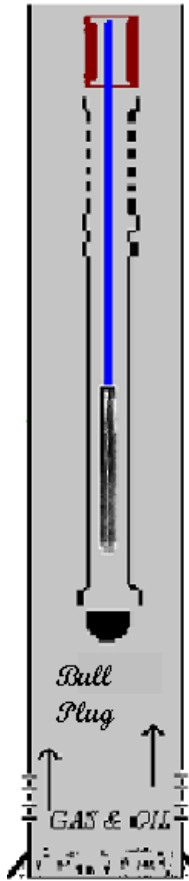
Configuration 1



←Casing Perforations

In this configuration, the pump guard screen is placed below the casing perforations. With this design the liquid must u-tube, which causes much of the sand to fall to the bottom of the hole. We have had a great deal of success with this particular design.

Configuration 2



In this configuration, the pump guard screen is placed above the casing perforations. The sand screen is mounted on a joint of pipe. The other end of the pipe is attached to the rod pump. This pipe replaces the gas anchor. The additional length allows the sand screen to be placed down into the separator, which allows time for the gas to separate.

←Casing Perforations

US Mesh Or Sand Size	Recommended Screen Slot
40/60	.008
20/40	.012
16/30	.018
12/20	.025
12/18	.030
10/20	.025