

TS Series

SandCat - ESP Desander

The RMS pumptools SandCat is a down-hole centrifugal sand separator designed to separate out sand from the produced fluid before it enters the pump. Attached below the ESP motor, the SandCat is installed with the ESP as a quick and simple addition to the completion system.

Solids laden fluid is forced into the SandCat intake. An integrated flow seal acts as a barrier to prevent well fluid from bypassing the SandCat. A centrifugal chamber drives sand and solids to the outer part of the chamber allowing de-sanded fluid to enter the SandCat internal central fluid intake.

Separated sand and solids are directed to the tailpipe by centrifugal velocity and carried downward by gravity. De-sanded fluid exits into the upper annulus through the discharge sub above the flow seal. It can radically reduce damage to expensive ESPs in sandy wells and significantly increase pump run time resulting in improved well profitability for the operator.

Casing Size	SandCat OD	Flow Rate	Overall Length
5-1/2"	4"	200-1000 bbd	112.7"
		400-1300 bbd	118.7"
		1000-1700 bbd	121.7"
		1200-2000 bbd	123.5"
7"	5-1/2"	200-1000 bbd	114.5"
		1000-2200 bbd	125.7"
		1500-2800 bbd	140.7"
		1800-3600 bbd	148.7"
		2500-5000 bbd	165.7"

Key Performance Features

Separates Sand Particles 40 Microns and above

No Well Preparation required - RIH with the ESP

No Moving Parts

Simple to Install

Assists Gas Separation

Sand Management System provides choice of sand collection options



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How it Works

- 1 Solids laden fluid is forced into SandCat intake. Integrated flow seal acts as a barrier to prevent well fluid from bypassing SandCat.
- 2 The centrifugal chamber drives sand and solids to the outer part of chamber, allowing de-sanded fluid to enter the SandCat internal central fluid intake.
- 3 Separated sand and solids are directed to the tailpipe (or rat hole) by centrifugal velocity and carried downward by gravity.
- 4 De-sanded fluid exits into the upper annulus through the discharge sub above the flow seal.

Once the tailpipe is filled, production of sandy fluid is resumed to ESP. No plugging will occur.

