

Sand Separators



Overview

JCI screen-based sand separators utilize a single or multiple wedge wire screen assembly to separate frac sand and formation sand from natural gas streams to protect downstream equipment and piping from erosion. The proven technology starts with a tangential entry that spins the incoming liquids and sand to the outer wall and directs the contaminant into the lower compartment via centrifugal force and gravity. Natural gas and liquids are free to pass through the screen while the sand is stored underneath the screen assembly for cleanout or blow-down. JCI sand separators are engineered and built to suit a wide range of process and mechanical conditions.



JCI Sand Separator Advantages & Features

- **Contaminant control:** Our screen-based sand separators allow the operator to choose any level of efficiency based on the size of sand granules
- **High differential pressure:** The replaceable screens are made from robust construction that allows for a variety of differential pressures suited to service severity
- **Replacement ease:** Each screen assembly is sufficiently light to allow for replacement by a single operator and is accessible through a quick opening closure
- **Operating simplicity:** If installed, a differential pressure transmitter allows for unmanned operation taking the guesswork out of cleanout or blow-down interval
- **Full Customization:** each unit can be packaged to suit individual requirements, complete with PSV and instrumentation



T-Barrel™ Sand Separator

JCI screen-based sand separators are available in a high capacity configuration with a horizontal sump. The T-Barrel™ is designed with two individual compartments: the screen separator compartment and the storage compartment. This design allows for high loading of liquids and solids with the ability to handle liquid slugs. The sump offers a horizontal quick opening closure for simple, ground-level manual cleanout. The diameter and length of the horizontal barrel is sized to suit individual process conditions. Multiple screen designs are also available for extremely high flow rates of natural gas and liquids.

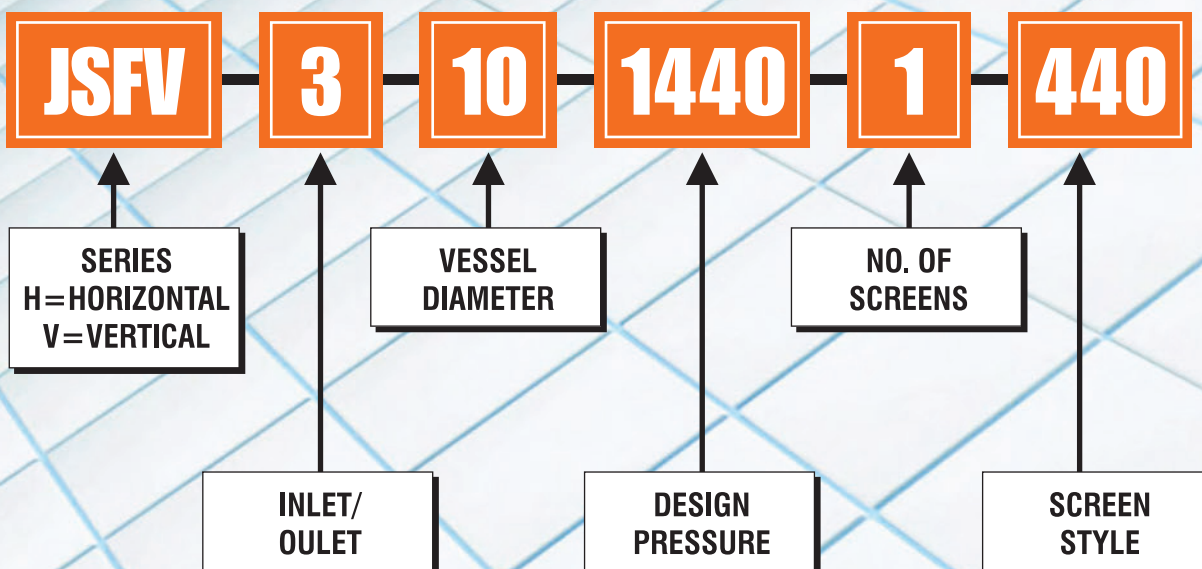


Single-Barrel Sand Separator

The standard JCI vertical sand separator is a screen-based separator design intended for low to medium sand capacity applications. A variety of screen and vessel diameters is offered for applications with high liquid and natural gas flow rates. Each unit is set up for manual or automated blow-down, which is triggered via differential pressure across the screen. This single compartment setup allows for a small foot print where space constraints exist. Easy access to the screen is gained through a quick opening closure located on top of the vessel.



Vessel Nomenclature



Inquiry Information

As a minimum, the following information is required for all **Sand Separator** sizing and pricing inquiries:

- Gas Volumetric Flow Rate
- Gas specific gravity
- Gas operating pressure range
- Gas operating temperature range
- Liquid flow rate
- Amount of entrained sand (Low, Medium, High)
- Vessel design conditions, including pressure, temperature and corrosion allowance

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