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EN CONSTANTE **EVOLUCIÓN**



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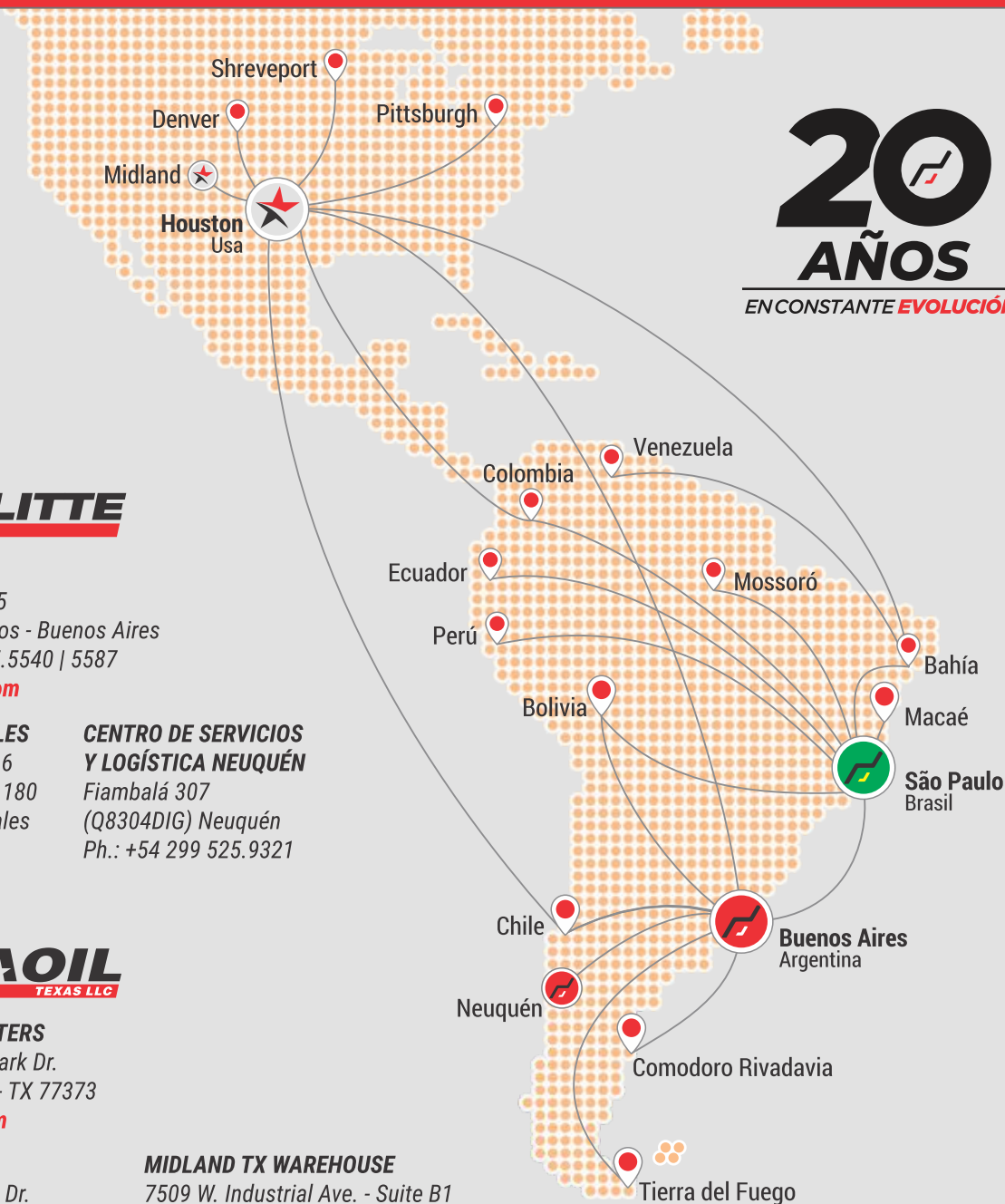
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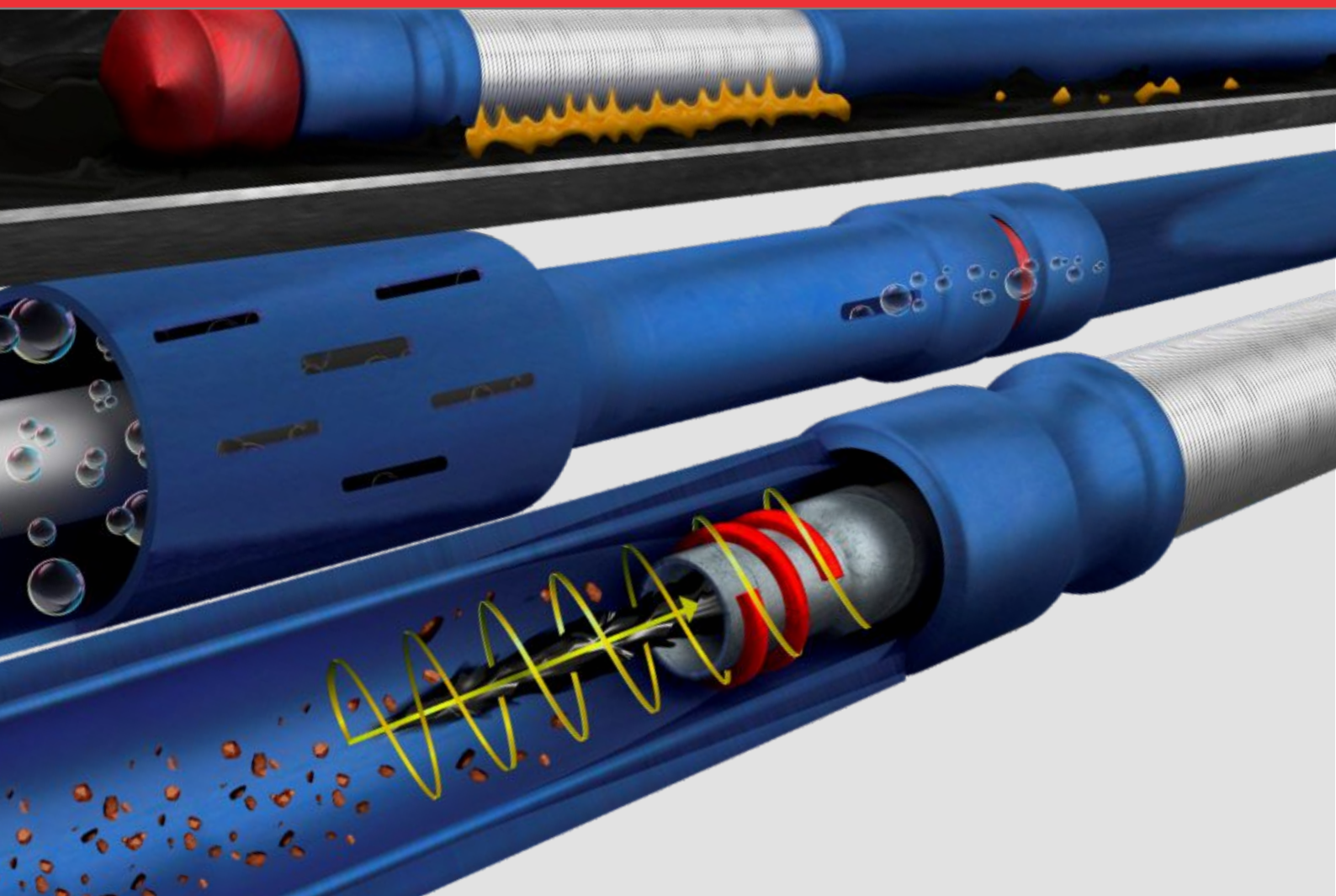
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**Your source for fluid conditioning system.**

## **Fluid Conditioning Systems**

*Maximizing production performance with  
integrated artificial solutions*

*ESP PREMIUM PACKAGES | SUCKER ROD PUMP | GAS LIFT & PLUNGER LIFT | PCP*

## ESP SAND LIFT

Odessa Separator's ESP SAND LIFT provides extended ESP run times through improved downhole sand management.

It is installed above the ESP discharge, where, upon start-up, the unique OSI dart, sand-breaker uses differential pressure to push fluid and entrained solids through tubular ports in one flow path, to the surface.

### BENEFITS

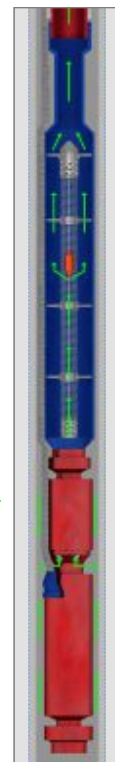
- Prevent workovers due to stand failures.
- Extends run times by regulating the rate of falling sand.
- Blackflush operations are carried out easily.
- Housing is highly sand-resistant.

*Provides significantly longer ESP run times.*

Description	Lifting Neck OD (in)	Body OD (in)	Connection Top	Connection Bottom	Capacity of the Cavity (in <sup>3</sup> )	Total Open Area (in <sup>2</sup> )
Series 350	2 7/8"	3.5	2 7/8" EUE Box	2 7/8" EUE Pin	1453.6	293.6
Series 400	2 7/8"	4	2 7/8" EUE Box	2 7/8" EUE Pin	2060.5	293.6
Series 450	2 7/8"	4.5	2 7/8" EUE Box	2 7/8" EUE Pin	2773.1	293.6
Series 550	3 1/2"	5.5	3 1/2" EUE Box	3 1/2" EUE Pin	4454.4	368.8

HOW IT WORKS

FLUID ↑



## ESP VORTEX DESANDER

The ESP Vortex Desander is designed specifically for wells where high lifting costs are a result of sand problems. The intake slots are cut with a plasma cutter making them smoother and much more corrosion-resistant.

The OSI Vortex Desander technology, employs centrifugal force, created by a helix to achieve maximum separation efficiency. This centrifugal force separates the smaller solids and deposits them in the tail pipe made up of multiple mud joints.

The ESP Vortex Desander was engineered to withstand the high speed of the particles avoiding sand "cutting" and system failures.

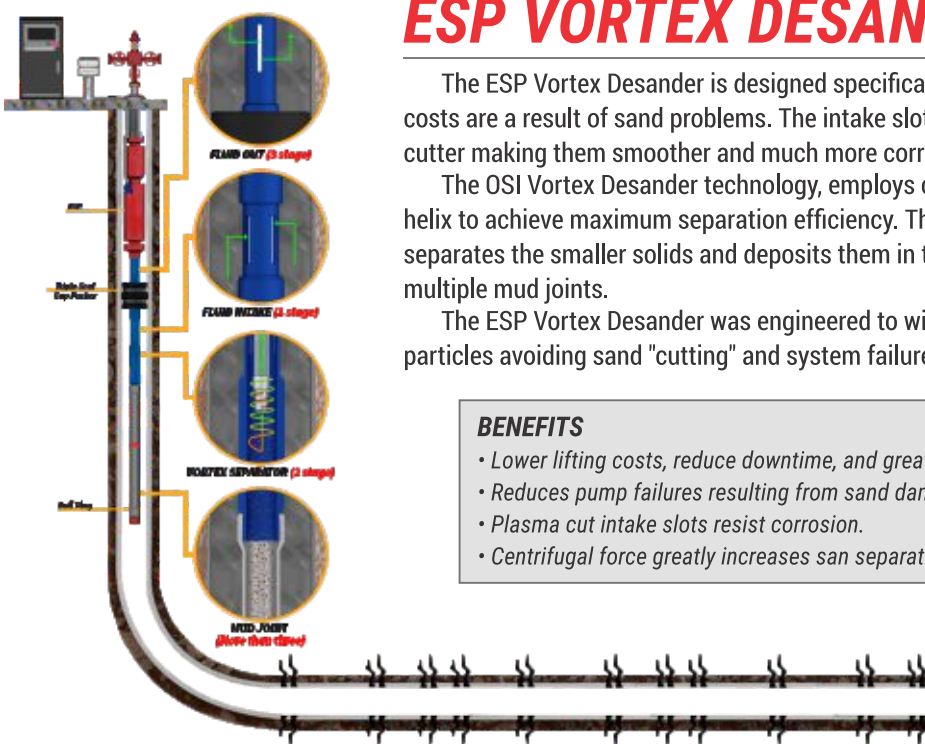
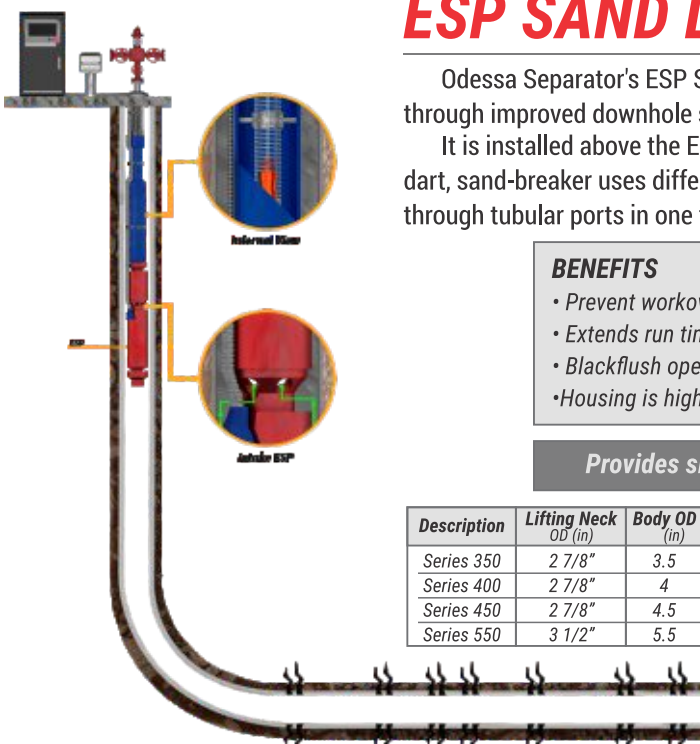
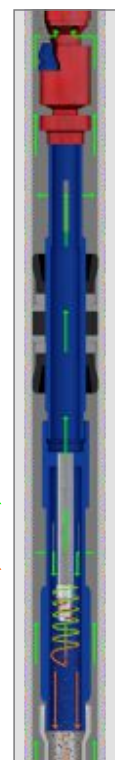
### BENEFITS

- Lower lifting costs, reduce downtime, and greater operating efficiency.
- Reduces pump failures resulting from sand damage.
- Plasma cut intake slots resist corrosion.
- Centrifugal force greatly increases sand separation efficiency.

HOW IT WORKS

FLUID ↑

SAND PARTICLES ↓





## SCREEN VORTEX DESANDER

The Screen Vortex Desander is designed specifically for wells where high lifting costs are a result of sand problems.

The OSI Vortex Sand Shield technology, which employs centrifugal force to achieve maximum separation efficiency, can be combined with the OSI Tubing Screen or the OSI Super Perf to achieve two-stage sand separation. This system has been successfully proven in multiple installations worldwide.

The Screen Vortex Desander is a versatile system that can be combined with other OSI tools solids control and gas separation to greatly improve the performance of artificial lift systems.

### BENEFITS

- Lower lifting costs, reduce downtime, and greater operating efficiency.
- Reduces pump failures resulting from sand damage.
- Two-stage sand separation.
- Centrifugal force greatly increases sand separation efficiency.

### HOW IT WORKS



## G-FORCE PACKERLESS

The G-Force Packerless Gas Separator is the only gas separator in the market which maximizes phase separation area where it matters. The change in the flow direction is the key to separate the free gas from the liquid. The innovative intake and the great casing annular area will guarantee an effective gas separation before enter the chamber.

The simplistic and effective design is installed easily below the seating nipple and it can be combined with the Vortex Sand Shield to separate gas and solids

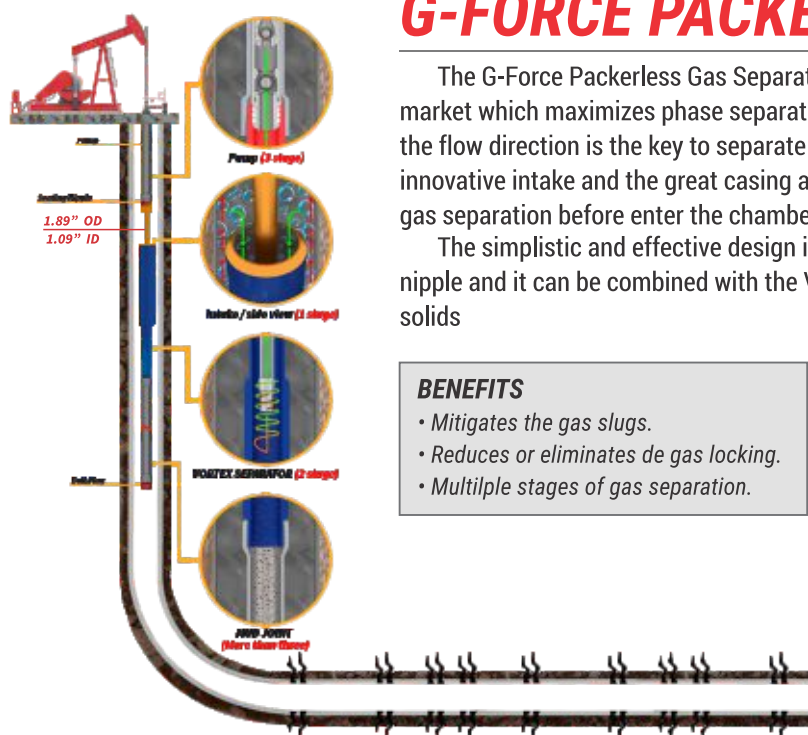
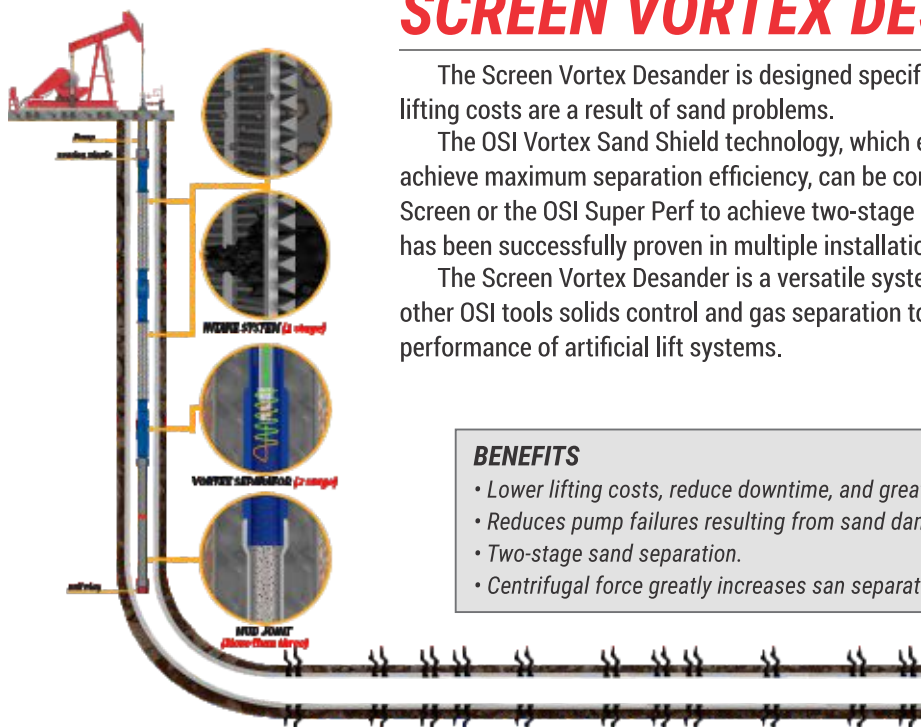
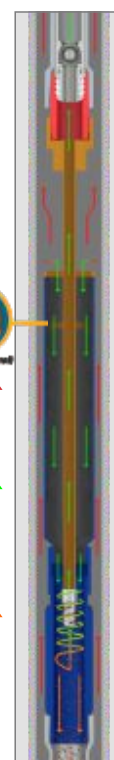
### BENEFITS

- Mitigates the gas slugs.
- Reduces or eliminates de gas locking.
- Multiple stages of gas separation.

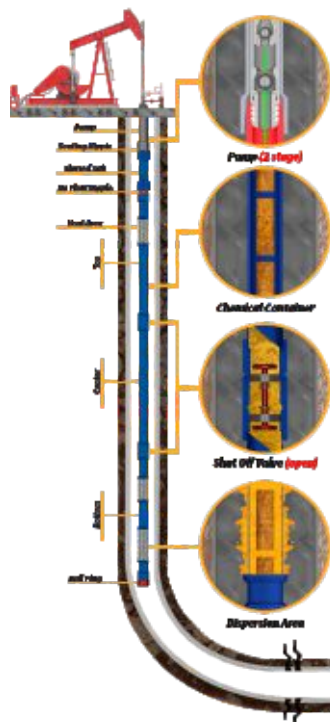
### BENEFITS

- Highly efficient gas separator design.
- Separate the free gas to the backside.
- Yield strength of 72,210 lb.
- In combined system, the dual flow system is used to improve the installation time and functionality of the tool.
- Allows sand & gas separation when is combined with the vortex sand shield.

### HOW IT WORKS



## CHEM SCREEN *with Shut Off Valve*



The OSI Chem Screen is a significant improvement over traditional chemical treating methods. OSI's proprietary, micro-encapsulation technology allows the most effective oilfield treatment chemistry to be put into solid stick form, placed into specifically engineered tools and installed below the pump intake. With the treating chemicals placed downhole, the activation and dispersal of the chemicals occur much faster and more efficiently.

Where multiple screens are used, a SHUT OFF VALVE between each section prevents premature dispersal. The treatment process is continual, over a longer period ensuring a more cost-effective treatment program.

The Chem Screen is engineered for durability so that, in most cases, it can be refilled when needed.

### BENEFITS

- Provides chemical treatment below a packer.
- Treatment from downhole up.
- Slow, continual dispersal.
- Serviceable rugged construction.

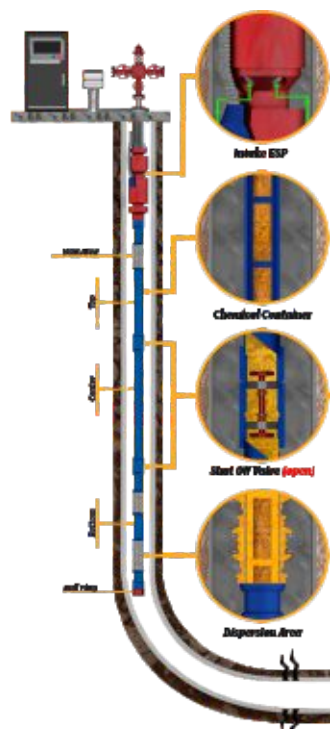
*The Quick Release is another solution, perfectly compatible with the Chem Screen, offering a slow release dispersion to provide a strong initial treatment.*

HOW IT WORKS

FLUID  
↑  
CHEMICAL



## ESP CHEM SCREEN *with Shut Off Valve*



Chem Screen™ is a new technology that challenges the traditional concept of downhole chemical treatment. Through the micro-encapsulation technology, all the active components of the most effective liquid chemical treatments in the oil industry are processed in a solid stick that is then installed before the pump intake.

The installation of the Chem Screen' downhole allows the activation and dispersion of the chemical problems to be treated and inhibited faster and more effectively, thus preventing harmful effects on downhole equipment.

There is a Shut Off Valve in each side of the Top and center sections and One Valve at the top of the Bottom, to prevent slippage in the surface.

### BENEFITS

- Reduces paraffin, scale and corrosion failures.
- Treats from the bottom up.
- Slow, self released.
- Chemical treatment below the packer.

HOW IT WORKS

FLUID  
↑  
SAND PARTICLES





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