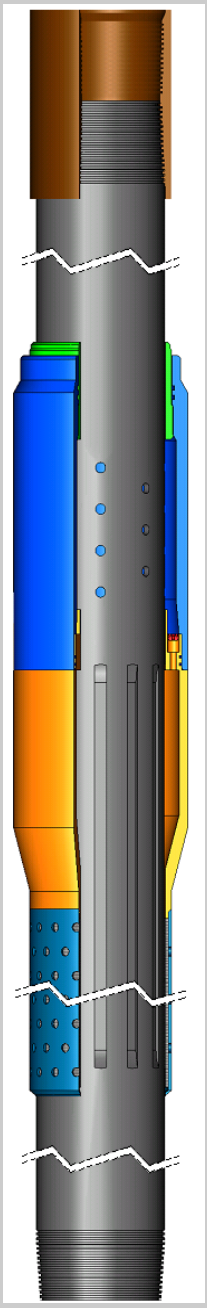
FluxRite™ Inject Screens 5 1/2”

FluxRite™ Inject Screen Design



FluxRite™ Inject is a unique pressure profile control screen designed to optimize horizontal well toe-to-heel flow control and sand control, as well as remove formation damage caused by drilling and completion fluids/operations.

By strategically placing Inject flow control devices (ICDs) along the production zone, one can: a) sweep the well uniformly, b) prevent or delay gas/water coning, c) choke off unwanted hi-perm water streaks, and d) remove filtercake damage via higher drawdowns. For injectors, ICDs can achieve uniform toe-to-heel gas/water/steam injection and choke off thief zones.

FluxRite™ Inject uses nozzles for flow control, which are superior to channels because: 1) nozzles choke off water more effectively, and 2) pressure drop (hence flow rate) is independent of viscosity.

FluxRite™ Inject nozzle configuration can be changed at the wellsite to accommodate changes made to the planned well path (e.g., geo-steering) as well as new logging data.

FluxRite™ Inject nozzles come in several sizes and are made of tungsten carbide for enhanced erosion/corrosion resistance.

FluxRite™ Inject uniquely employs the popular and powerful MeshRite™ sand control media. Which is ideal in wells with a broad sand size.

Flow control ports can be placed on each joint or can be spaced out over several joints. By optimizing the number of flow control ports a reduction of completion cost can be realized.

FluxRite™ Inject can be combined with packers to isolate problematic zones and minimize annular flow that could significantly impact the flow profile .

The most advanced wellbore/reservoir computer simulation models are available to quickly and accurately design the FluxRite™ ICD strength for a specific application.

Applications

- Horizontal producers/injectors requiring pressure profile control.
- Vertical wells with commingled zones of different pressure.
- Thermal wells that require uniform toe-to-heel steam injection
- In combination with external/swell packers to isolate harmful zones and minimize annular flow .

Benefits

- Provides uniform toe-to-heel productivity sweep of reservoir
- Delays onset of water/gas/steam coning
- Cleans up formation damage
- Allows harmful zones to be easily choked off (water) or isolated (shale)
- Increased reserve recovery for higher NPV
- Variety of media to choose from to optimize: 1) sand control, 2) retained permeability, and 3) cost—in both homogeneous and heterogeneous sand environments
- Designed for severe installation and operational conditions
- Unlike channel-based ICDs, pressure drop is independent of viscosity
- ICD strength adjustable at the wellsite

Features

- Patented MeshRite™,
- Nozzle-based for optimum flow control and viscosity independence
- High open flow area media with large flow area between media and base pipe to allow maximum florate.
- Single or Multiple screen joints per ICD

FluxRite™ Inject

3D Mesh Orifice Flow Control

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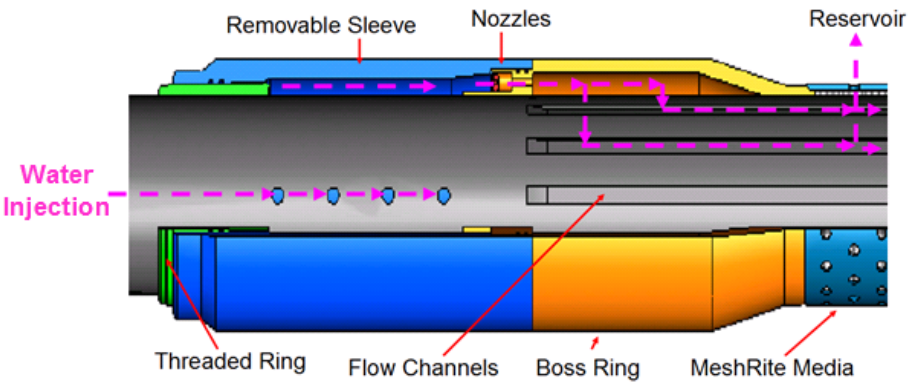

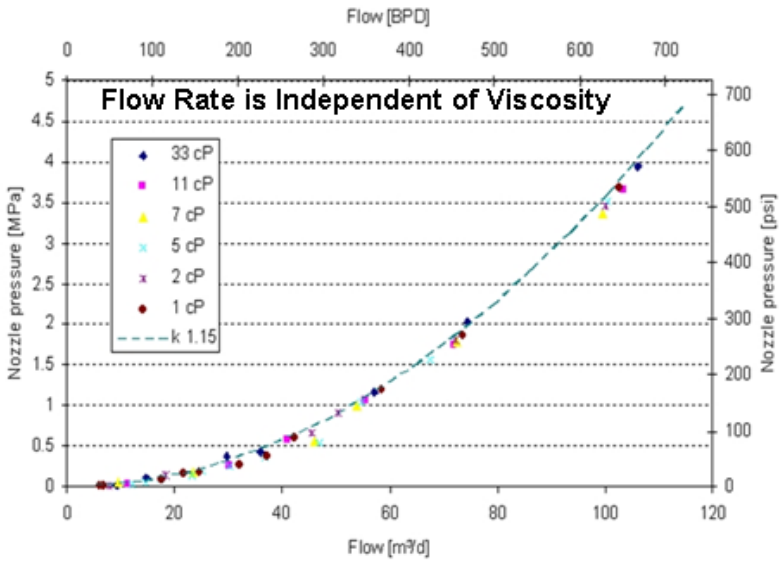

FluxRite™ Inject 5 1/2”	
5 1/2” 15-600 micron MeshRite Media	
SCREEN MEDIA	
Construction Material	316L
Micron Rating	15—600 micron
Screen length	32 ft.
Screen Burst Rating	1038 psi
BASE PIPE	
Size, Wt./Ft.	5 1/2” 17#
Joint Length	38 ft.
Channels	12
Inflow Area	40%
Connections	LTC
ASSEMBLY 4 1/2”	
Outer Jacket OD	6.05”
Coupling OD	6.00”
Pipe ID	4.89”
Collapse Rating	7275 psi
Pipe Burst Strength	7643 psi
Pipe Body Tensile (Yield)	341000 lbs (L80)
Pipe Body Torque	40 ft-lbs
Maximum Bend Radius	45 degs/100 ft
ICD ASSEMBLY SPECS	
Boss Ring: OD	7.05”
Nozzles	4 max
Nozzles size	4.0 mm, 2.5 mm, 1.6 mm
Nozzle Material	Tungsten Carbide

Schlumberger