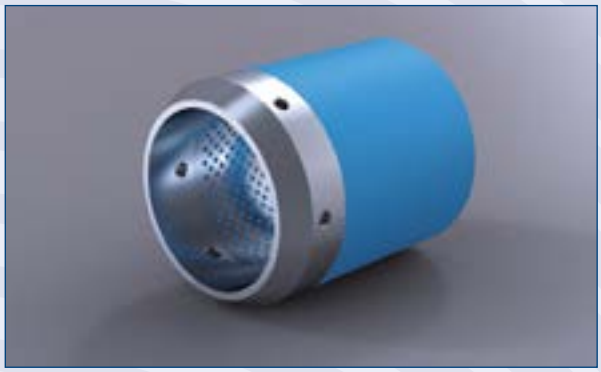
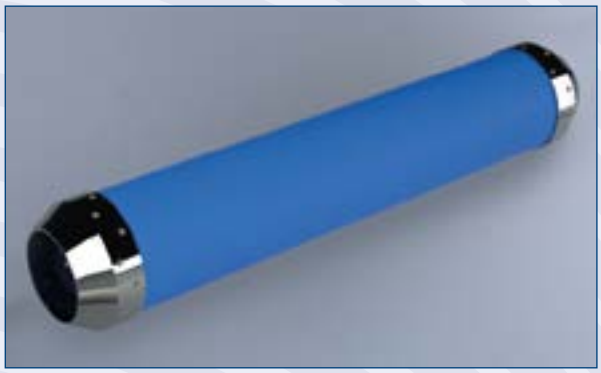
# HP WELL SCREEN

## SWELLABLE ISOLATION SEALS SIS / αSIS / ϙSIS



ϙSIS single element design (slip-on-sleeve)



αSIS multi element design (slip-on-sleeve)

SIS multi element design with an example of cable feed through

### Customized design

The design is customized to your demands;

- Swelling activation with water, oil, acid, hybrid or high temperature
- Elastomers designed according well data
- Designed for cased and open hole completions
- High temperature applications up to 300°C
- High salinity applications
- Color coded elastomers
- Special seal lip for improved sealing
- Multi-element design for enhanced sealing performance
- Easy RIH with self-cleaning asymmetric design and beveled outer ends

Isolation seals can be critical to a successful well screen / ICD screen installation, particularly in heterogeneous horizontal wells. Proper compartmentalization decreases water intrusion, excludes shale's, increases output and ensures that the inflow control systems perform as per design.

In many applications it can be shown that increasing compartmentalization improves ultimate recovery. As the heterogeneity increases and in wells with high mobility contrast, numerous compartments may be required for optimum control. In sand control applications, stopping the annular flow in the SAS completion allows for an uniform natural pack to be created around the screens avoiding premature plugging and erosion.

**Swellable isolation seals provide a very cost effective means of establishing zonal isolation, inflow control and enhanced screen life**

They come in 3 main categories:

### SIS - Manufactured directly onto pipe

This design allows for longer sealing lengths with multiple elements and higher deferential pressures up to 700 bar.

### αSIS - Slip-on sleeve design

The slip-on design provides flexibility for wells with various spaced out zones. Deferential pressure up to 125 bar.

### ϙ-SIS - Slip-on sleeve design

Typically used for wells with ICD's and Screens.
Short lengths and deferential pressure up to 20 bar.

### Features

The swellable isolation seals provide:

- Zonal isolation and inflow control
- Decreased water influx
- Isolation of loss zones
- Improved recovery
- Prevents annular flow
- Homogenous sand pack on SAS
- Enhanced screen life
- Strong, durable and self healing seal
- No additional running tools or site crew

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