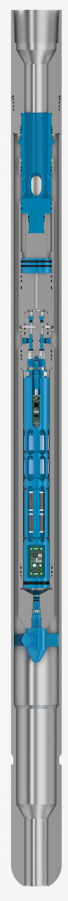


# ReAct Electronic Liner Shoe

The ReAct™ electronic liner shoe (ELS) is a well pressure control device designed to be installed below ReAct completion valves in the horizontal section of a well. It is deployed as part of the liner in the open position to auto-fill the liner and allow for pumping operations to be performed.

The ELS may be programmed to close upon the expiry of a predetermined ReAct time delay, or by using ReAct pressure recognition technology. In addition, a combination of both the above methods may also be utilized.

Two robust independent sets of ReAct electronic circuits and two independent operating mechanisms provide 100% redundancy. Once closed, the valve is mechanically locked in the closed position, creating a pressure barrier between the liner and the reservoir. This allows for multiple pressure tests to be carried out to test the completion, set the packer, and initiate the ReAct completion valves.



## Features

- ISO 14998 V3 validated
- HAL tested and field-proven electronics
- Delayed closing for up to 365 days
- Field-proven and reliable technology
- Two independent electronic circuits
- Two Independent operating mechanisms
- Protected sealing surfaces prior to activation
- Large flow area

## Benefits

- Auto-fills the liner during deployment
- Allows pumping through the liner
- Eliminates the need for an inner work string
- No intervention or manipulation required
- Closes to provide pressure integrity after a predetermined time delay or pressure signal, or a combination of both

## Technical data

Size in.	Top connections	Material	OD in.	ID* in.	Length in.	Tensile rating lb	Compression rating lb	Absolute pressure rating psi	Differential pressure rating (closed) psi	Temp. rating °C	Flow area in. <sup>2</sup>	Time delay
4.500	4½ in. 13.50# SH-3SB	41XX LAS L80	5.750	2.685	92.18	307,000	307,000	10,000	6,500	135	3,400	Programmable up to 365 days
4.500	4½ in. 12.60# VAMTOP	13% Cr L80	5.750	2.685	92.18	307,000	307,000	10,000	6,500	135	3,400	Programmable up to 365 days
6.625	6½ in. 24# TSH W521	13% Cr L80	8.125	2.685	94.00	394,000	394,000	10,000	6,500	135	5,671	Programmable up to 365 days
6.625	6½ in. 24# TSH W521	41XX L80	8.125	2.685	94.00	394,000	394,000	10,000	6,500	135	5,671	Programmable up to 365 days

Other sizes and materials available upon request.

Torque ratings are based on premium end connection.

\* ID at the top end. No through bore