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

Nominal Size (in.)	Bottom Thread Type	Material	OD (in.)	ID (in.)	Length (in.)	Tensile Rating (klbs)	Working Pressure (psi / bar)	Temperature Rating (F/C)	Minimum Flow Area (in^2)
6⅝	6⅝ in. Premium	13Cr-80	8.13	NA	98	412	6,500 / 447	275 / 135	5.7
5½	5½ in. Premium	S13Cr-95	6.25	NA	96	385	6,500 / 447	275 / 135	5.8
4½	4½ in. Premium	L-80	5.75	NA	96	288	6,500 / 447	275 / 135	3.4