

Pressure Activated Shut In Tool

The Omega Pressure Activated Shut In Tool is a single-shot, time delay-based well pressure control device that is designed to be run below a Bridge Plug or Lock Mandrel.

It is primarily intended for use in basic well testing situations where a flowing well is shut-in downhole and the resulting pressure build up is monitored by memory gauges.

The delay period is programmed at surface prior to running in hole and can be set for any interval up to 150 days. When the delay period expires, a pilot valve mechanism is actuated that allows well pressure to enter the tool and shift a sleeve, straddling the flow ports and shutting-in the well pressure below the tool. No intervention or communication from surface is required.

The Tool contains two independent sets of electronics and two pilot valve mechanisms for 100% redundancy and once closed the valve is mechanically locked in the closed position.

Features

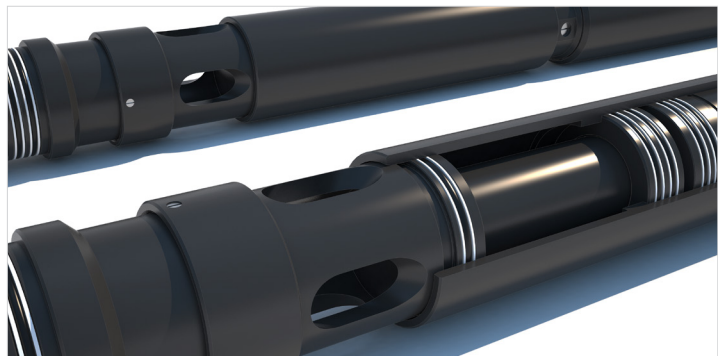
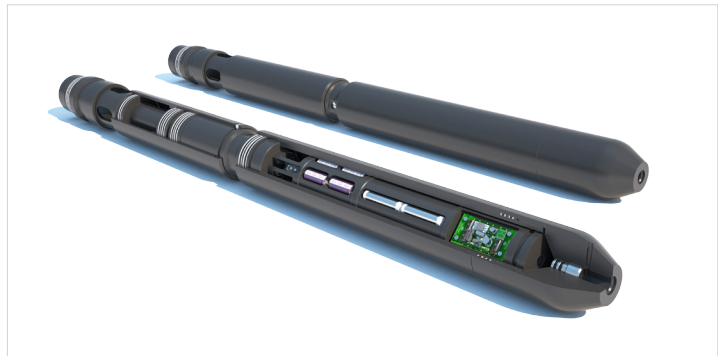
- Programmable up to 150 days.
- HPHT activation mechanism up to 165 deg C
- Large flow area through tool.
- Two independent operating mechanisms.

Applications

- Provides pressure build up monitoring.
- Deployed below Lock or Bridge Plug.

Benefits

- Reliable activation in HPHT environments.
- Reduces well bore storage effects during pressure surveys.
- Eliminates pressure data inaccuracies caused by gas expansion.
- Eliminates pressure data inaccuracies caused by phase segregation.



Technical Specifications

Tool Size	3.500"
Top Connection	3.00" OD 8 TPI Stub Acme Pin Thd
Metallic Materials	Inconel 718
OD	3.50"max
ID	2.295" nom at top end.
Length	46.1"
Minimum Flow Area	4.15 in ²
Working Pressure	7,500 psi
Temperature Rating	165 °C
Time Delay	Programmable up to 150 days at 125° C*

*Tested @ 165°C for 12 days.
Other sizes and ratings are available upon request.

