

Feed-Through Seal Stack Assembly

Reliably Isolate Zones in Areas Where Packers Are Not Viable

WellDynamics' Seal Stack Assembly isolates individual zones in SmartWell® intelligent completions in applications where it is not possible or desirable to use packers for isolation. The Seal Stack Assembly enables bypass of control lines to communicate with equipment installed lower in the completion string.

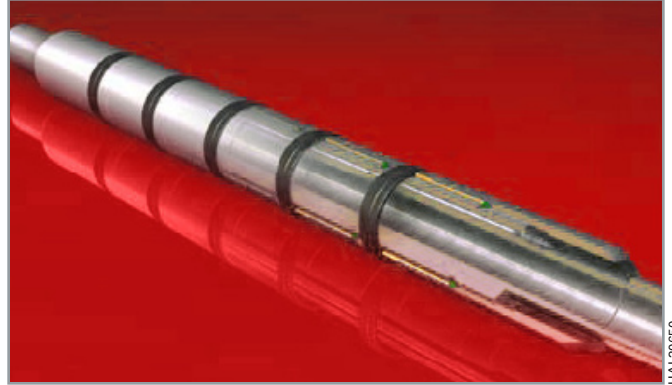
Typical applications for the Seal Stack Assembly are gravel pack or expandable sand screen (ESS) completions, in which the Seal Stack Assembly will stab into a polished bore to provide isolation between different reservoir intervals in the sand face completion. This ability is based on the use of a stack of robust, bonded seal rings arranged along the length of the assembly.

Benefits

- Install above interval control valves (ICVs) and permanent downhole gauges (PDGs)
- Isolate reservoir intervals without the requirement for a packer
- Eliminate need for setting/release system

Features

- Simple, effective design
- Multiple sets of bonded seals
- Bypass for up to six control lines
- Field-proven reliability and durability



Seal Stack Assembly

Reliably Isolate Zones

The Seal Stack Assembly enables splicing of hydraulic control lines in order to communicate with equipment that is installed lower in the completion string.

The Seal Stack Assembly allows for bypass of up to six independent control lines, thereby enabling control and monitoring of interval control valves and permanent downhole gauges.

The device is capable of isolating zones with a differential pressure of up to 7500 psi.

Specifications							
Seal Stack Assembly							
Size	4.75-in. (ECC)	4.80-in. (ECC)	5.00-in.	5.80-in.	6.10-in.	7.125-in.	7.20-in.
Max. Body OD (in)	4.695	4.740	5.076	5.770	6.050	7.075	7.150
Seal OD (in)	4.826	4.870	4.945	5.876	6.176	7.201	7.276
Min. ID (in)	2.382	2.340	2.313	2.945	2.945	2.945	3.813
Length (in)	83.640	92.420	80.000	88.923	72.220	72.210	107.210
Maximum Temperature (Deg F)	275	275	275	275	275	275	275
Maximum Pressure {Burst & Collapse} (psi)	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Maximum Differential Pressure (psi)	7,500	7,500	7,500	7,500	7,500	7,500	7,500
Hydraulic Port Pressure Rating (psi)	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Thread Size & Type	2 7/8-in. 6.4 lb VAM Top	2 7/8-in. 6.4 lb New VAM	2 7/8-in. 6.4 lb New VAM	3 1/2-in. 9.2 lb New VAM	3 1/2-in. 9.2 lb VAM Top	3 1/2-in. 9.2 lb VAM Top	4 1/2-in. 12.6 lb VAM Top

Note:

- a) Control lines are normally hydraulically spliced above and below the seal stack assembly. Control line feed-throughs are also available.
- b) Number of feed-throughs or hydraulic splices or both depends on the size of mandrel
- c) Seals are nitrile bonded 90 Duro

**For more information on any of the details featured here, please email us at
welldynamics@halliburton.com.**

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