

Intelligent Barrier Valve (IBV)



Description

Reduce interventions with the IBV, an intelligent downhole barrier valve designed to complement plugging devices. The IBV meets the market's need for an 'on demand' barrier, ensuring reliable pressure integrity when required. It's a multicycle valve qualified to Vo according to ISO14310 after 4 cycles of the valve in mud. It can be commanded open to allow flow through the valve to safely equalize, circulate, or produce through it. Opening or closing the valve remotely is possible without intervention or control lines by applying predefined pressure profiles or by sequential programming of Interwell's intelligent software.

Application

The IBV can be used to create shallow or deep set on-demand barrier in applications such as:

- Liner Deployment.
- Injection build up surveys.
- Pre plug and abandonment.
- Setting of Production Packers.
- Co-mingling of zones remotely.
- Fracking.
- Well Testing.
- Inflow Testing.
- Zone isolation.
- Re-completion.
- TCP Operations.
- Rig move.

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Benefits

- Debris tolerant.
- Extensive Battery life.
- ISO14310 Vo Qualified.
- Well logging capabilities.
- Multiple open/close feature.
- Customisable pressure commands.
- Reduces number of intervention trips - reducing time, cost and risk.
- High flow rate capability, verified through extensive flow testing.
- Easily change set-up with intelligent software
- Activation flexibility (pressure, time, hydrostatic, temperature, timers or combinations).
- Low pressure drop due to idealised flow path.

Technical Specifications

OD	2,25" (57,2mm)	3,25" (82,6 mm)
ID	1,14" (29mm)	1,67" (42 mm)
Length	85,5" (2,172 m)	77,17" (1,98 m)
Max absolute pressure	10,000 psi (689 bar)	10,000 psi (689 bar)
Max differential pressure	7500 psi (517 bar)	7500 psi (517 bar)
Max differential pressure when opening	3000 psi (207 bar)	3000 psi (207 bar)
Max temperature	302 °F (150 °C)	302 °F (150 °C)
Max flow rate	230 bbl/h (600 l/min)	560 bbl/h (1500 l/min)