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 V0 according to ISO14310. 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. The software detects pressure profiles reliably, allowing the operator to 'talk' with the valve downhole through applied pressure, hydrostatic pressure, timers etc. The command setup can be tailored for any application.

Application

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

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

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Benefits

- Debris tolerant
- Extensive Battery life
- Pre-defined pressure commands
- Well logging capabilities
- ISO14310 V0 Qualified
- Multiple open/close feature
- Low pressure drop due to idealised flow path
- Activation flexibility (pressure, time, hydrostatic, temperature, timers or combinations)
- Reduces number of intervention trips - reducing time, cost and risk
- High flow rate capability, verified through extensive flow testing
- Intelligent software with Bluetooth connection easy to change set-up

Technical Specifications

	Imperial	Metric
OD	3.25"	82.6 mm
ID	1.67"	42.3 mm
Length	77.17"	1.96 m
Max absolute pressure	10,000 psi	689 bar
Max differential pressure	7500 psi	517 bar
Max differential pressure when opening	3000 psi	207 bar
Max temperature	302°F	150°C
Max flow rate	560 bbl/h	1500 l/min