



The BreakThru™ Barrier Valve boosts efficiency and saves costs.

**OPTIMIZE YOUR PAY ZONE,
MINIMIZE YOUR COSTS**

BREAKTHRU™ BARRIER VALVE

This product may be covered by one or more patents or pending patent applications.

ISO 14998 V0, 14310 V0 AND ISO 28781 CERTIFIED WELL BARRIER

Nine's BreakThru™ is an intervention actuated ISO certified well barrier plug that provides operators with a low-cost ISO V0 certified well barrier. It effectively isolates wellbore reservoir pressure utilizing glass. The BreakThru™ are made off a proprietary glass material that gives them incredible strength and durability in a variety of downhole conditions up to 10,000psi (68.9MPa) differential pressure.

The BreakThru™ Barrier Valve sub is run on the bottom of the tubing and/or below a packer BHA to isolate the tubing and act as a barrier to set hydraulic packers. Once the packer is set the completion can be tested against it. After all tests are done and the task as a well barrier is finished, the BreakThru™ Barrier Valve is knocked out using coil tubing, slickline or in some cases a drop bar. Once the disc is removed the wellbore fluids can be produced up the full ID of the production tubing, as the tool provides no restrictions to tubing ID once activated.

Applications

- Pressure Testing of Completion
- Well Barrier Plug
- Setting of hydraulic Packers
- Fluid loss control
- Flotation of Completion
- Isolate Lower Completion

Benefits

- ISO 14998 V0 / ISO 14310 V0 and ISO 28781 certified well barrier
- Does not require Nine personnel to RIH and operate
- Low cost certified well barrier for wells with planned intervention
- Easy reliable removal by, wire line jar or milling operation
- RIH as an integrated part of the completion
- Can be run in hostile environments (H₂S and CO₂)
- Debris tolerant pressure activation
- Full bore access post opening
- Patented Technology

BREAKTHRU™ BARRIER VALVE CASING SPECS					
Description inch (mm)	O.D. inch (mm)	Tool I.D. inch (mm)	Overall Length inch (mm)	ISO Differential Pressure Rating 125 ksi	Temperature
2-7/8	3.67	2.44	20.0	10k psi	320° F
3-1/2	4.80	2.91	24.0	10k psi	
4-1/2	5.75	3.93	24.0	10k psi	
5-1/2	7.00	4.89	24.0	10k psi	
6-5/8	8.13	5.88	24.0	7,5k psi	

Other sizes and higher pressure/temperature ratings may be available upon request.
Casing Specs are according to API Tubing/Casing Dimension Chart Information.

For more information, and to find a representative near you, visit nineenergyservice.com