

Vanquish barrier plug

Intervention-less flow control and barrier device

Applications

- Run in completion string below hydraulic packer.
- Pressure test device downhole
- Fluid loss control device
- Completion barrier device
- Hydraulic packer setting device.

Features and Benefits

- Bidirectional barrier device
- Box and pin connections made according to customer specifications
- 24-hour zero bubble barrier test success in rated temperature and pressure
- Intervention-less plug removal
 - Hydraulic pressure actuates plug
 - No slickline or wireline operation during completion

The Vanquish™ barrier plug (VBP) is a bidirectional barrier device that is remotely opened with hydraulic pressure. It can be integrated as a part of the completion string or installed below a packer. The VBP design relies on a patented glass plug breaking mechanism to function as a reliable barrier and then shatter when intended hydraulically. Its simple design and field deployment success ensures intervention-less packer setting and barrier function in oil and gas completion operations.

When the glass plug is pumped open, restoring a large bore ID, the glass plug shatters into small pieces less than 5mm, and the safe pump open operation leaves minimal debris in the wellbore. The opening pressure can be customized from 2,000 to 7,500 psi depending on the well application pressure, and adjustment can be made in the field. The plug is offered with common tubing sizes.

Qualification

API19AC and I1D1 equivalent V0. A 24-hour barrier zero bubble gas test at rated pressure and temperature.

Material compatibility

Available in standard and NACE compliant metallurgies and elastomers.



Product technical overview *				
Tubing size	Product size	Temperature	Pressure	Pump open pressure
2 3/8 in.	321x187	40 to 302°F	10,000 psi	2,000 to 7,500 psi
2 7/8 in.	400x234	40 to 302°F	10,000 psi	2,000 to 7,500 psi
3.5 in.	475x286	40 to 30 °F	10,000 psi	2,000 to 7,500 psi
4.5 in.	550x384	40 to 302°F	10,000 psi	2,000 to 7,500 psi
5.5 in.	675x465	40 to 302°F	10,000 psi	2,000 to 7,500 psi
7 in.	833x575	40 to 302°F	10,000 psi	2,000 to 7,500 psi

* Validation test is limited to specific sizes, product envelop, connection, metallurgy, and elastomer. Validation tests are available upon request.