ISO-Flex™ High-Expansion Retrievable Bridge Plug

Creates V0-rated barrier by passing through slim restrictions then sets in larger tubing below

Applications

- Wells with small restrictions prior to setting diameter
- Temporary or permanent zonal isolations
- Temporary well suspension
- Temporary barrier during well-workover applications
- Wellhead repair and replacement

Features and Benefits

- Small OD allows for application through small restrictions to set in larger tubing below
- One-trip application using simplified equalization and retrieval
- Multiple conveyance methods enhance operational versatility, promoting use in remote or costly locations
- Optimized slip and tubing contact for superior anchoring capability
- Retractable fold-back rings support the element and provide superior sealing capability
- ISO 14310 V0 validation up to 5,000psi (34.4 MPa) and 40°F (4°C) to 275°F (135°C) for increased tool reliability

Tool Description

The Weatherford ISO-Flex high-expansion retrievable bridge plug is a small-OD tool used in a variety of intervention applications. It effectively passes through slim ID restrictions such as nipple seal bores, sliding sleeves, safety valves, and other tubing-mounted devices, and is then set, bridging (packing off) large extrusion gaps and sealing against high pressure at high temperatures. The plug is run with coiled tubing, slickline, or wireline as well as conventional tubing within existing completion strings.

The ISO-Flex plug features the patented Hydra Boost system that energizes and locks-in the additional boost force to provide superior sealing ability during pressure reversals and changes in temperature—conditions that often cause leaks with conventional plugs. Retrieval is achieved by an internal sleeve that shifts down to equalize pressure then shears up to release—minimizing the risk of plug release before equalization.

The Weatherford ISO-Flex high-expansion retrievable bridge plug effectively passes through slim ID restrictions and sets, bridging (packing off) large extrusion gaps and sealing against high pressure at high temperatures.

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Specifications

Tubing Size	3.5 in. (88.9 mm)	4.5 in. (114.3 mm)	5.5 in. (139.7 mm)	6.625 in. (168.275 mm)	7.00 in* (177.8 mm)
Tubing Weight	9.3 lbm/ 12.7 ft	11.6 lbm/ 15.1 ft	17 lbm/ 23 ft	20 lbm/ 24 ft	26 lbm/ 35 ft
Plug OD	2.20 in (55.88 mm)	2.69 in. (68.32 mm)	2.90 in. (73.66 mm)	3.40 in. (86.36 mm)	3.60 in. (91.44 mm)
External Fishneck (JDC)	2.00 in. (50.8 mm)	2.5 in. (63.5 mm)	3.00 in. (76.2 mm)	4.00 in. (101.6 mm)	
Min Setting ID	2.653 in. (65.10 mm)	3.761 in. (95.52 mm)	4.578 in. (116.28 mm)	5.834 in. (148.18 mm)	5.892 in (149.65 mm)
Max Setting ID	3.047 in. (77.39 mm)	4.069 in. (103.35 mm)	4.976 in. (126.39 mm)	6.142 in. (156.00 mm)	6.380 in. (162.05 mm)
Temperature Rating	40 to 275°F 4 to 135°C				
Pressure Rating	5,000 psi (34.4 MPa)				

*In development

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