

# WSBP™ Well-Suspension Barrier Packer

Provides advanced wellbore isolation for long-term reliability and safety

## Applications

- Onshore/offshore API11D1 V3 operations in challenging environments
- Workovers and temporary abandonment
- Wellhead maintenance and replacement
- Temporary isolations and pressure stimulations
- Batch-drilling and batch-completion campaigns
- Storm-packer contingencies
- Casing tests

## Features and Benefits

- API-19AC valve sets and unlocks the plug without rotation, enabling one-trip installation and simplified recovery using its self-equalization feature
- Proven packer/valve strength is API 11D1 and 19AC qualified and includes a reliable, 24-hour testing-hold period that is 96X more stringent than API requirements
- Extended pressure-hold capability allows for integrity testing from above and below the plug
- Right-rotation, set-and-release functionality provides workstring flexibility, greatly reducing disruption to ongoing operations

## Tool Description

The Weatherford WSBP well-suspension barrier packer provides a temporary downhole pressure-barrier for wellbore-isolation operations within challenging onshore and offshore applications (including deepwater) where a temporary, V3-qualified mechanical barrier is required. Featuring its API-19AC-qualified valve and API 11D1-qualified packer designs, the WSBP creates a reliable isolation barrier with tested validation requirements that are 96 times more stringent than API requirements. This strength and dependability enables easy, efficient deployment with pinpoint setting for the ultimate in seal reliability – creating a mechanical barrier capable of performing high-pressure integrity tests from above and below the plug. The WSBP sets and releases in one trip without the need for left rotation and features an easy retrieval process for streamlined operations and additional OPEX savings. This high-quality strength provides enhanced stability of the barrier for long-term confidence and safety.



The WSBP sets and releases in one trip without left rotation to create a reliable barrier that withstands high-pressure integrity testing from above and below the plug.



# WSBP™ Well-Suspension Barrier Packer

Provides advanced wellbore isolation for long-term reliability and safety

## Tool Operation

For barrier-packer setting, rotate the WSBP five-to-seven right turns while slowly slacking off 25,000 to 30,000 lbs on the tool. Then pull the workstring 25,000 to 30,000 lbs overpull. To perform integrity test, pressure test the annulus, then pressurize the workstring (pressure test from below). Slack off 2,000 to 3,000 lbs, hold left-hand torque, then pick up 3,000 lbs to close the valve. Workstring can be pressured up to test bypass sealing before disconnecting the running tool. For recovery, slack off 3,000 lbs to automatically connect the retrieving tool with the valve (well-control measurements should be put in place at this point). Then pick up 3,000 lbs to confirm plug is latched onto retrieving tool. Holding tension, right-hand rotate six-to-eight turns. This will release the slips and allow the element to relax. The tool is now released and the workstring can be pulled out of the hole.

## Specifications

Plug size	9.625 in. (244.48 mm)	7 in. (177.8 mm)
OD	8.40 in. (213.36 mm)	6.026 in. (153.06 mm)
Plug length	162.92 in. (413.82 cm)	156.93 in. (398.60 cm)
Total length	190.27 in. (483.29 cm)	173.22 in. (439.98 cm)
Casing size	9.625 in. (24.45 cm)	7.0 in. (17.78 cm)
Casing-weight range	40 to 47 lbs/ft (59.53 to 69.94 kg/m)	20 to 26 lbs/ft (43.16 to 47.62 kg/m)
Element durometer	90-80-90	
Element material	HNBR (hydrogenated nitrile)	
Top-thread connection	4.5 in. (114.3 mm) IF Box	3.5 in. (88.9 mm) IF Box
Bottom-thread connection		

Pressure rating above	5,000 psi (34.474 MPa)
Pressure rating below	
Max temperature rating	250 °F (121.1 °C)
Min temperature rating	100 °F (37.78 °C)
Setting mode	Mechanical
Set-rotation direction	Right hand
Release-rotation direction	Right hand
Validation	V3 (API 11D1)

