

APOLLO Openhole Packer

Achieves reliable mechanical isolation in high differential-pressure applications using a 24-in. packer chassis

Applications

- Multizone openhole completions for interzonal isolation
- High-pressure stimulation operations
- Horizontal wells
- Completion of underbalanced wells or wells that have losses
- As a component of the Weatherford ZoneSelect[®] system

Features and Benefits

- The extremely short chassis—only 24 in. from pin to pin—allows for torque-through capabilities on the rig floor, which eliminates the need for handling subs. A longer mandrel is available to accommodate torque-machine jaws for premium threads that require torque turns.
- A fixed housing with internal piston results in no moving parts on the outside of the packer, which eliminates the need for an anti-preset feature.
- The compression-set element of the packer provides instant isolation and pressure integrity. Setting occurs after the application of hydraulic pressure causes the setting piston to overcome externally adjustable shear screws. Adding or removing the shear screws enables customizing the setting pressure.
- The high-pressure design withstands stimulation pressures up to 10,000 psi (68.95 MPa).

Tool Description

The Weatherford APOLLO openhole packer provides mechanical isolation in high differential-pressure applications. The APOLLO packer has a compression-set element that sets with the application of hydraulic pressure. The 4.50-in. packer has an overall length of 24 in. from pin to pin, which contributes to the short yet robust design.

The APOLLO packer is part of the Weatherford ZoneSelect stimulation completion system. The system is part of an extensive portfolio of openhole isolation packers, selective stimulation sleeves, and ancillary equipment, which enables optimal performance in various operating and producing environments.



Measuring only 24-in. from pin to pin, the Weatherford APOLLO packer is the shortest hydraulically set openhole packer for zonal isolation.



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Specifications

Mandrel size	4.5 in. (114.3 mm)
Casing weight	11.6 to 13.5 (17.26 to 20.09)
Openhole size range	6.00 to 6.25 in. (152.40 to 158.75 mm)
Maximum element differential pressure rating	10,000 psi (68.95 MPa)
Burst rating*	12,400 psi (85.49 MPa)
Collapse rating*	11,800 psi (81.36 MPa)
Tensile rating*	362,000 lbf (1,610,256 N)
Temperature rating	300°F (149°C)
Maximum OD	5.75 in. (146.05 mm)
Minimum OD	3.885 in. (98.68 mm)
Overall length (pin to pin with LTC threads)	24 in. (609.6 mm)
Material	4140 P110

*Burst, collapse, and tensile ratings are calculated at ambient temperature.

