

ARES II Openhole Packer

Provides mechanical isolation with high differential-pressure capabilities up to 15,000 psi (103.45 MPa)

Applications

- Multizone openhole completions for interzonal isolation
- High-pressure stimulation operations
- Horizontal wells
- Underbalanced well completions or completions in wells that have losses
- As a component of the Weatherford ZoneSelect® system

Features and Benefits

- An anti-preset feature locks the setting device during deployment so that the packer cannot set prematurely.
- The compression-set element of the packer provides instant isolation and pressure integrity. Setting occurs after the element overcomes the antipreset feature because of the application of hydraulic pressure. Setting occurs after the application of hydraulic pressure causes the element to overcome the anti-preset feature.
- The high-pressure design withstands stimulation pressures up to 10,000 psi (68.95 MPa).

Tool Description

The Weatherford ARES II openhole packer provides mechanical isolation in high differential-pressure applications. The ARES II packer has a compression-set element that sets with the application of hydraulic pressure.

The ARES II packer is part of the Weatherford ZoneSelect stimulation completion system. This 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.



The ARES II openhole packer is part of the ZoneSelect stimulation completion system, which provides isolation in multizone, horizontal, and underbalanced wells.



ARES II Openhole Packer

Specifications

Mandrel size	3.5 in. (88.9 mm)		4.5 in. (114.3 mm)		5.5 in. (139.7 mm)	
Special features	—			HPHT	High expansion	1,962
Casing weight	9.2 lb/ft (13.69 kg/m)	11.6 lb/ft (17.26 kg/m)	13.5 lb/ft (20.1 kg/m)	15.1 lb/ft (22.47 kg/m)	13.5 lb/ft (20.1 kg/m)	20 lb/ft (29.76 kg/m)
Openhole size range	4.78 to 4.98 in. (121.4 to 126.4 mm)	6 to 6.25 in. (152.4 to 158.8 mm)			6 to 6.5 in. (152.4 to 165.1 mm)	8.5 to 8.75 in. (215.9 to 222.3 mm)
Burst rating, P110 ^a	13,480 psi (92.94 MPa)	10,690 psi (73.7 MPa)	12,410 psi (85.56 MPa)	16,730 psi ^b (112.9 MPa) ^b	12,410 psi (85.56 MPa)	12,640 psi (87.15 MPa)
Collapse rating, P110 ^a	12,770 psi (88.05 MPa)	7,622 psi (52.55 MPa)	11,800 psi (81.36 MPa)	15,460 psi ^b (106.62 MPa) ^b	11,800 psi (81.36 MPa)	12,010 psi (82.81 MPa)
Tensile rating, P110 ^a	226,924 lbf (1,009,448 N)	310,940 lbf (1,383,185 N)	369,965 lbf (1,645,752 N)	492,101 lbf ^b (2,189,061 N) ^b	369,965 lbf (1,645,752 N)	618,517 lbf (2,751,410 N)
Maximum OD	4.50 in. (114.3 mm)	5.75 in. (146 mm)				8.15 in. (207 mm)
Maximum ID	2.92 in. (74.1 mm)	3.94 in. (100.1 mm)	3.85 in. (97.9 mm)	3.751 in. (95.28 mm)	3.85 in. (97.9 mm)	4.7 in. (119.3 mm)
Overall length	67.88 in. (1,724 mm)	64 in. (1,625 mm)		81.11 in. (2,060 mm)	77.24 in. (1,962 mm)	85.35 in. (2,168 mm)
Maximum element differential pressure rating	10,000 psi (68.95 MPa)			15,000 psi (103.45 MPa)	6,500 psi (44.82 MPa)	10,000 psi (68.95 MPa)
Temperature rating	300°F (149°C)			300 and 400°F (149 and 204°C)	300°F (149°C)	350°F (117°C)

^a Burst, collapse, and tensile ratings are at ambient temperature.

^b These ratings are based on Q125 material.

