



ARES Hydraulic Openhole Packer

Weatherford's ARES hydraulic openhole packer is a two-stage mechanical sealing packer designed for openhole multizonal isolation. The patented sealing method ensures even expansion over the length of the element. Applied surface pressure strokes the first-stage setting mandrel under the element, increasing the element OD. After full expansion of the element, the second stage initiates, compressing the element and sealing off the openhole annulus. The body-lock ring locks the element into position, holding differential pressure from above and below. The ARES packer is compact in length, aiding in deployment efficiency through high-dogleg well intervals.

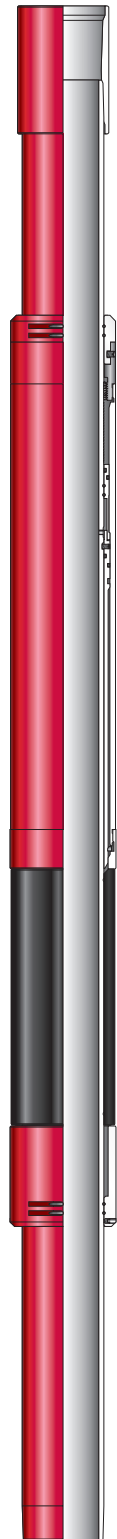
The ARES packer is part of Weatherford's ZoneSelect® fracturing system. This system provides an extensive portfolio of openhole isolation packers, selective stimulation sleeves, and ancillary equipment, which enables optimal performance in various operating and producing environments.

Applications

- Multizonal isolation in stimulation and fracture operations
- High-pressure fracture stimulations
- Horizontal wells
- Completing wells underbalanced or on losses

Features, Advantages and Benefits

- A two-stage setting mechanism with a separate deployment interlock feature provides increased run-in clearance and reduced operational risk in tight-hole and high-dogleg well intervals.
- Increased packing element length improves openhole-sealing capability over other nonswelling-type element packers, reducing the need for packer redundancy.
- The packer's high-performance packing element requires lower packoff force than conventional packing elements to reduce localized stress on the formation, yet provides similar isolation differential, increasing stimulation-treatment effectiveness.





ARES Hydraulic Openhole Packer

Specifications

| Size (in./mm) | 3.500 × 6.125 88.9 × 156.0 | 4.500 × 6.125 114.0 × 156.0 |
|--|----------------------------------|--------------------------------|
| Openhole size (in./mm) | 6.125 to 6.250 156.0 to 159.0 | |
| Tubing size (in./mm) | 3.50 88.9 | 4.50 114.3 |
| Tubing weight (lb/ft, kg/m) | 9.30 13.8 | 13.50 20.9 |
| Differential pressure rating (psi/MPa) | 9,000 62.1 | |
| Setting actuation pressure (psi/MPa) | 1,900 13.1 | |
| Maximum temperature rating (°F, °C) | 300 150 | |
| Tensile rating (lbf/daN) | 166,500 74 000 | |
| Material specifications | P110 to 4140 | |
| Maximum OD (in./mm) | 5.80 147.3 | |
| Minimum ID (in./mm) | 2.920 74.1 | 3.898 99.0 |
| Overall length with LTC threads (in./mm) | 80.0 2032.0 | |
| Element length (in./mm) | 14.0 355.6 | |