

Wellhead Isolation Tool

Protect production equipment from high pressures and abrasive fluids

APPLICATIONS

- Hydraulic fracturing
- Conventional and unconventional completions
- Suitable for sweet and sour service

BENEFITS

- Minimizes completion costs and production tree damage caused by contact with acids, pressures, and erosion
- Enables high-pressure treatments to be performed on wells with low-pressure production trees or wellheads
- Increases efficiency and operational uptime
- Reduces capex investment
- Eliminates opex time and costs
- Extends service life of production equipment
- Eliminates the need for a workover rig
- Eliminates the need to upgrade the wellhead for a stimulation job
- Enhances HSE profile through decreased risk of exposure to high pressures and abrasive fluids

FEATURES

- Isolation of the production tree and wellhead from treatment pressures and abrasive and corrosive fluids
- Working pressure rating of 15,000 psi [103.4 MPa]
- Secondary pressure containment during fracturing
- Hydraulic operation
- Sealing in tubing sizes ranging from 2½ to 5½ in with more sizes made available upon request

Traditional stimulation techniques usually require high pressures and large volumes of fluid for successful treatments. When a well is equipped with a production tree and wellhead that is rated below the minimum requirements for a stimulation treatment, the operator must replace the original tree and sometimes the wellhead with higher-pressure-rated equipment—which often means killing the well and risking damage to the formation.

The Cameron wellhead isolation tool is an efficient alternative to conventional stimulation techniques. The tool contains high pressures within the tool, protecting expensive valves and fittings from contact with abrasive and corrosive fluids. It also allows higher-pressure treatments to be performed on wells with lower-pressure production trees and wellheads. As a result, operators have the ability to improve well stimulation, increasing production rates while protecting the production tree and wellhead from damage caused by high pressures, corrosive fluids, and abrasive wear.

Deployment is streamlined and flexible. The wellhead isolation tool can be installed with the well dead or under pressure without the aid of a workover rig. With the global presence of Cameron, the tool can be quickly rented, deployed, and used with less downtime at the rig site.



The wellhead isolation tool can be installed without requiring a workover rig, which helps decrease rig time and costs.

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FEATURES, CONT.

- Dual-barrier seal during stimulation, with flexibility to add a third barrier
- Ability to reenergize mandrel packing
- Goat head designed to mitigate erosion
- Mechanical lockdown functionality by locking the plates, adding a secondary pressure containment during fracturing jobs
- Stroke length of 110 in [2,794 mm] with 150-in [3,810-mm] reach
- High-strength, erosion-resistant mandrel assembly
- Redundant cup seals
- Insertion and retraction pressure of 10,000-psi maximum wellbore pressure

Sealing Specifications

Tubing or Casing Size, [†] in [mm]	Tubing or Casing Weight, lbm/ft [kg/m]
2 7/8 [73]	6.50 [9.67]
3 1/2 [89]	9.20 [13.69]
	9.30 [13.84]
	10.20 [15.18]
	12.70 [18.90]
	12.95 [19.27]
4 1/2 [114]	12.60 [18.75]
	12.75 [18.97]
	13.50 [20.09]
	15.50 [23.07]
	18.90 [28.13]
5 [127]	18.00 [26.79]
	20.00 [29.76]
5 1/2 [140]	23.00 [34.23]
	26.00 [38.69]

[†] More sizes made available upon request.

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