

HR-ESP™ Series Packers

Production and Electric Submersible Pump Packers



Applications:

- ESP Completions
- Multi-zone Production Applications
- Tool control and feedthroughs below packer
- Temperatures from 200° to 275°F [93° to 135°C]

Benefits:

- Large Slip contact footprint provides maximum holding force with minimal Casing damage
- Minimized leak potential and debris build-up
- Resists pre-set and does not re-set after pulling
- API-11D1, V3 tested to 6,500 psi @ 275°F [448 bar @ 135°C]

Features:

- Optional tubing pressure or control line set
- Adjustable setting pressure
- Ultra-compact design that is customizable
- Variable, straight-pull shear-to-release up to 180 kips
- Modular / one-piece design with setting chamber below the element
- V0 Rating upon request
- Elastomer and element trim options available

Description

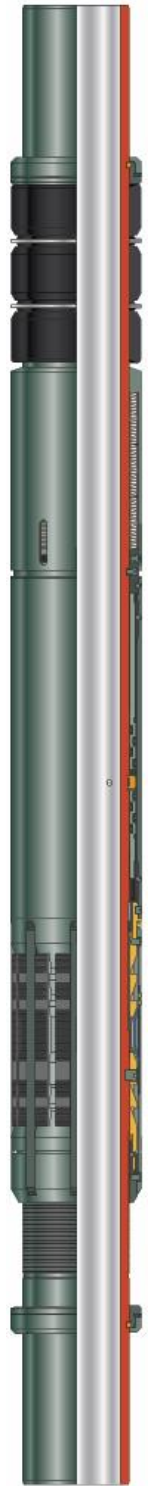
The Tejas HR-ESP™ Series Packers are single string, hydraulic set, retrievable packer with multiple feedthroughs. These packers are designed for completions using an Electric Submersible Pump or 'ESP' below the packer. The HR-ESP™ Packers require no tubing movement during set.

Tejas HR-ESP™ Series Packers are designed to accommodate a multitude of configurations, including concentric long-string with multi-port by-pass or eccentric configuration for ESP cable by-pass. Additional by-pass ports are available to accommodate large scale gas venting, injection lines, and/or gauge lines.

The standard seal element combination is made of 1130/56 FKM end elements and a 983/56 FKM center element that are V3 certified for 200-275°F. This element combination may also be upgraded to accommodate alternate temperature or "V" ratings. The element system resists swabbing even at high run speeds. Leak potential is further reduced by utilizing a minimum number of O-ring seals.

The HR-ESP™ Series Packers utilize large slip engagement with bi-directional carburized barrel type slips, rigidly holding the packer in place while minimizing the risk of casing damage.

This straight pull to release packer is rated for 6,500 psi differential pressure from above or below, depending on the designed shear release setting value. Shear values are easily modified up to 180,000 lbs. Once released, the HR-ESP™ Packers can be moved within the casing in either direction without concern of resetting the packer.



HR-ESP™
Packer

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Engineering Data

Casing Size in [mm]	Casing Weight ppf	Max OD In [mm]	Working Pressure psi [kPa]	Temp. Rating ° F [° C]	Setting Pressure psi [kPa]	Trim
7.625 [193.7]	33.7	6.600 [167.6]	6,500 [44,816]	275 [135]	3,500 [24,131.7]	INC 718

Element	Elastomers	API-11D1/ ISO-14310	Feedthroughs	Multi-Ports
1130/56 Ends 983/56 Center	Aflas™	V3	4	4x 0.250 PTI Testable Fittings

LS Size in [mm]	LS ID in [mm]	LS Weight ppf	LS Upper Thread Connection	LS Lower Thread Connection
2.875 [73]	2.375 [60.3]	6.4	Premium Box	Premium Box

SS Size in [mm]	SS ID in [mm]	SS Weight ppf	SS Upper Thread Connection	SS Lower Thread Connection
2x 1.900 [48.3]	1.610 [40.1]	2.75, 2.76, 2.90	1.900 NUE RD Box	1.900 NUE RD Box

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† The engineering data provided illustrate the scope of this product offering and are not all inclusive. Additional sizes and pressure ratings are available upon request.

‡ Clearances on image below are based on critical coupling alignment.

Direct request for quotations to: product.sales@tejasre.com

