

Packer Elements

Centralizer Fins

Bellows

Bonded Seals

Diaphragms

Valve Seals

Mud Motor Boots

Ram Seals

Rod Seals

Piston Seals

Rubber Billets

BOP Seals

Vee Packing

Bonded Springs

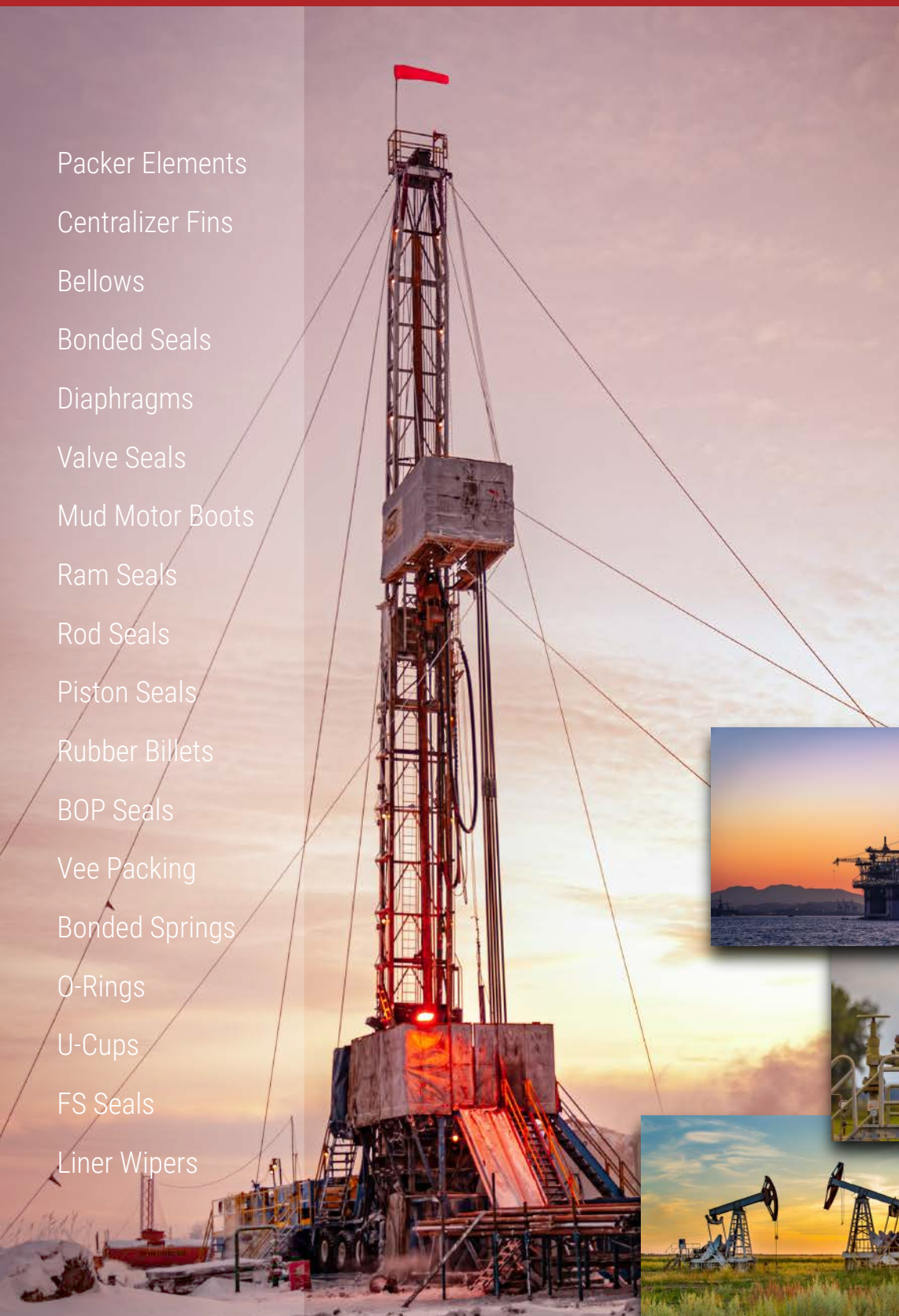
O-Rings

U-Cups

FS Seals

Liner Wipers

Compression
molded
products and
materials
for oilfield
service
applications



THE MOST CONVENIENT, COLLABORATIVE, AND FLEXIBLE WAY TO SOURCE YOUR SEALING SOLUTIONS.

The lower-for-longer oil price environment has affected all segments in the upstream sectors value chain. And with uncertainty and volatility here to stay, oil field service companies need to be able to work collaboratively with their supply chain — at KC Seals, our processes and procedures are flexible. We offer rapid deliveries, no minimum line or order quantities, online instant quotes, responsive communication channels, and the most affordable tooling fees: we work with you to find the right sealing product at the right price and for when you need it. It's the most convenient way to source your sealing solutions.



Convenient, Collaborative, Flexible

We're easy to deal with; it's as simple as that. We offer same-day response time, rapid deliveries, flexible procedures, instant online quotations, and no line-price minimums.



Advanced Thermoplastics and Elastomers

Our thermoplastics and elastomers are specifically formulated for the harsh environments typically seen in exploration and production applications. This includes compounds that offer resistance to temperature, extrusion, RGD, and superheated steam.



Quality Assurance

With every order, our clients can expect a detailed quality report. This includes dimensional information calibrated by our Zeiss O-Machine and Keyence CMM, both of which utilize optical and contact measurement technology in a comprehensive analysis. KC Seals is ISO 9001 certified.



Most Affordable Tooling Fees

Setup fees can be a major deterrent when deciding to move forward with a project. KC Seals makes it easier by making all our compression molds in-house, saving you time and money.



Custom Molded and Machined Sealing Solutions

Machining rubber and plastics, as well as compression molding can be complicated if you lack the know-how. With over 30 years of experience in manufacturing rubber and plastic sealing parts, KC Seals is the ideal resource for complex polymeric sealing profiles.

OUR PRODUCTS CAN BE FOUND IN EXPLORATION AND PRODUCTION APPLICATIONS ALL OVER THE



Packer Elements

Our Packer Elements are made from materials that are specifically formulated for downhole applications. This includes compounds that offer resistance to temperature, extrusion, RGD, and superheated steam. We offer custom solutions, Arrow Set sizes, and various backup options.



Liner Wipers

KC Seals can manufacture Liner Wipers in a variety of sizes and we offer a wide portfolio of elastomer compounds. Our liner wipers have been tried and tested by our customers and provide a reliable cleaning and displacement of your workstring.



Mud Motor Boots

Our Mud Motor Boots are typically made from our MCM3009 and HEXAE90 HNBR compounds, which offer superior abrasion resistance and excellent tear strength. Both materials are ideal for the aggressive environments of drilling applications.



Bellows

Our unique FKM and HNBR compounds are specifically formulated to resist tear and swelling in the harshest of water-based and oil-based drilling muds.



Centralizer Fins

To prevent delamination it is extremely important to not just get the molding parameters perfect, but the bonding agent needs to be compatible with both the insert and elastomer. Furthermore, preparation of the insert with surface finish treatment and cleanliness further assist to promote a strong bond throughout service. KC Seals has extensive experience in the manufacturing of centralizer fins.

COMMON PRODUCTS



Bonded Sleeves

Seals on sliding sleeves can be susceptible to damage because of differential pressure from either the casing or tubing side. Bonding the elastomer to the seal housing can remedy this potential mode of failure. KC Seals handles all the prep, molding, de-flashing of your sleeves, and we offer a variety of elastomers for diverse environments.



Rubber Billets

Our billets are ideal for prototype and low quantity orders. There is no need to freeze the billets, as our unique cast makes the elastomer compounds easy to machine and drastically improves the overall finish. All our listed elastomer compounds are available in a variety of rod or tube sizes.



FFKM O-Rings

The unique patented material structure of our FFKM O-Rings offer outstanding long-term performance in nearly every environment. No matter if it's extreme temperatures up to 325°C or harsh chemicals or even overheated steam and hot water, our FFKM O-Rings are the best match.



Custom Molded Solutions

Whether it's machined or molded, our design engineers and manufacturing personnel have extensive experience with complex elastomeric sealing profiles. This experience and in-house capabilities make KC Seals an ideal resource for all your elastomer sealing needs.



Degradable Materials

Improve well efficiency and reduce costs with our unique thermoplastic polyurethane degradable material. Degradation rates are flexible depending on application requirements, and KC Seals can manufacture custom profile shapes to meet your specific needs.

OIL FIELD PROVEN ELASTOMERS

Our elastomers are specifically formulated for the harsh environments typically seen in oilfield service applications. This includes compounds that offer resistance to temperature, extrusion, rapid gas decompression, and superheated steam. We also offer compounds that are both NORSOK M710 and API 6A certified.

Application	Compounds	Temperature	Description
High Pressure	MCM3009	-40°C to 160°C -40°F to 325°F	Improved extrusion and wear resistance over standard HNBR.
	DM951	-20°C to +205°C -4°F to 400°F	Excellent temperature and extrusion resistant FKM (Viton®).
	HEXAE90	-20°C to +205°C -4°F to 400°F	Excellent abrasion, impact, and extrusion resistant HNBR.
Extreme High Temperature	SZ498	-6°C to 325°C 21°F to 617°F	Extremely high temperatures, low compression set, broad chemical resistance. For use with downhole (sour gas), drilling mud, amine-based fluids, steam and other aggressive chemicals.
Low Temperature	EE5647	-50°C to +205°C -50°F to 400°F	Low temp Viton® with RGD resistance as per ISO 23936-2 and H2S resistance as per ISO 23936-2 (up to 10%). Offers A wide range of chemical compatibilities and low-temperature performance without reducing high-temperature capabilities.
NORSOK M-710 and API 6A Required	V911	-30°C to +205°C -22°F to 400°F	FKM compound that offers excellent resistance to sour gas aging and explosive decompressions as per NORSOK M-710 and API 6A requirements.
	H9120	-40°C to 160°C -40°F to 325°F	HNBR compound that offers excellent resistance to sour gas aging and explosive decompressions as per NORSOK M-710 and API 6A requirements.
Standard Well Conditions	F7DS (70 duro) F8DS (80 duro) F9DS (90 duro)	-20°C to +205°C -4°F to 400°F	General purpose FKM (Viton®) compound. Suitable for higher temp applications and offers excellent chemical resistance.
	H6DS (60 duro) H7DS (70 duro) H8DS (80 duro) H9DS (90 duro)	-40°C to 160°C -40°F to 325°F	General purpose Hydrogenated Nitrile (HNBR) compound with improved methanol and sour gas resistance over Nitrile.
	N7DS (70 duro) N8DS (80 duro) N9DS (90 duro)	-35°C to +120°C -30°F to +250°F	General purpose Nitrile compound. Offers excellent performance in petroleum lubricants, seawater, diesel fuel, valves, and actuators.
Steam and Rapid Gas Decompression	EE3268	-4 to 205°C 25°F to 400°F	RGD, amine, H2S, and steam resistant Aflas®.
	E9DS	-40°C to 160°C -40°F to 325°F	Geothermal, steam service, explosive decompression resistant, and suitable for service in steam/oil mixtures of less than 10% petroleum fluid. Moderate H2S resistance.
Aggressive Chemicals	EE7749	-20°C to +204°C -4°F to 400°F	Viton® ETP 600S. Extreme chemical resistance. Excellent performance in aqueous media, dilute base and acid resistant. Resists swelling in highly caustic solutions and amines.

For over 30 years we've been supplying sealing solutions to oilfield service companies conveniently and collaboratively. Contact us today to see why so many of our clients enjoy working with us.

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Multiple ways to engage with us

- Chat with us on-line
- Email
- Video Conferencing
- Book a meeting on-line
- Give us a call
- Instant on-line quotations
- Text message