

GULF TECHNICAL OPERATIONS



PROFILE



INTRODUCTION

Gulf Technical Operations LLC

Gulf Technical Operations LLC is a leading supplier of various equipment and services to the oil and gas industry worldwide under the philosophy of assured quality and quantity at a reasonable price. We are Led by professionals with over 40 years of invaluable experience in the Oil and Gas sector. Drawing upon decades of expertise, we look forward to serving the industry as the most reliable and trustworthy partner.

The company is professionally managed by group of well qualified Engineers. Our goal is to provide high quality products and services at minimum costs, and we have achieved this with excellent results. Our highly skilled and motivated staff alwaysstrive to maintain the high standards as the company operates a policy of continual improvement in the quality of products and services to meet customer requirements and ensure customer satisfaction. Our technical team is backed by our strong management, which strives for providing personalized solutions.



ABOUT OUR COMPANY

We, Gulf Technical Operations LLC, are a leading supplier of equipment and services to the oil and gas industry worldwide, driven by our philosophy of assured quality, quantity at a reasonable price. Established in Texas in 2016, we specialize in supplying products and services to drilling and service companies, ensuring they have access to the highest quality tools and equipment needed for seamless operations.

Our company is led by seasoned professionals with over 40 years of invaluable experience in the oil and gas sector. Jerry Paul, a key leader in our team, has been instrumental in leading major projects, including the rigging, refurbishment, and commissioning of over 60 land and offshore rigs across the Middle East, Egypt, U.A.E, Oman, Yemen, Saudi Arabia, Pakistan, Iraq, and Kuwait. Drawing upon this wealth of expertise, we pride ourselves on being a reliable and trustworthy partner to the industry.



MANAGEMENT

 Jerry W. Paul, Operations Manager with 45 years' experience working for international drilling and service companies as Maintenance Manager. Worked throughout the Middle East, Egypt, U.A.E, Oman, Yemen, Saudi, Pakistan, Iraq and Kuwait. Good experience in Oil Company new contract requirements

• Bill Gibson boasts an illustrious 40-year career, distinguished by exceptional leadership and expertise in financial management, culminating in senior roles overseeing complex treasury operations, managing high-volume invoice processing, and leading large teams of finance professionals.



MISSION & POLICY

Mission @

To provide top quality service and products to our clients/ customers and add exceptional value and impact positively

Quality Policy



- Conform to the stringent customer requirements.
- Commit to comply with requirements.
- Continually improve the effectiveness of the Quality Management System based on API Specification Q1 and/or ISO 9001.
- Work safety.

As reflected in our motto, "Where Quality and Delivery are the #1 Priority", customer satisfaction is our main goal. Our management diligently follows API Specification Q1 and we are committed to provide sincere services and high quality products.

Statement of Safety Policy

"Our main goal is to work safely and maintain a healthy environment. We always must comply with legal and applicable requirements, and continuously improve our HSE management and performance"



OUR SERVICES

- Cover the maintenance, inspection, overhaul and repair of all drilling related equipment, Project Management on new builds and refurbishment to comply with A.P.I. Cat IV. We supply qualified personnel to carry out project from start to spud on drilling and transport equipment.
- Good relations and knowledge with new materials manufactures and used equipment dealers to be able to supply quality, quantity and at a reasonable prices for all drilling and transport needs both in U.S., Middle East and South East Asia.
- We work closely with the O.E.M.'s to have full compliance on required equipment, as well follow API requirements to insure excepted results.



FRAC SERVICES

Fracking Services

GTO provides complete consultation services for fracking units, leveraging advanced hydraulic fracturing technology to unlock oil and gas reserves. This transformative process boosts energy extraction efficiency and revitalizes slowing wells, catering to the dynamic needs of the oil and gas industry.

Why Choose Fracking?

- Extracts hydrocarbons from challenging formations.
- Revitalizes aging wells
- Diversifies energy sources, shifting from conventional reserves to shale.
- Enhances energy security and revenue potential.

Expanding Opportunities in the Middle East

• The Middle East's vast shale reserves present immense potential. Fracking enables nations like Saudi Arabia, UAE, and Oman to diversify their energy portfolios and enhance global competitiveness.

Comprehensive Solutions Our consultation encompasses:

- Designing tailored fracking units.
- Providing equipment like high-pressure pumps, storage tanks, and proppant delivery systems.
- Addressing environmental challenges and optimizing water management.

CONTACT US FOR CONSULTATION

Ready to innovate? GTO offers expertise and tailored solutions for your fracking unit requirements. Contact our team for more details.





Our Founder Jerry Paul's Journey

Leading Excellence in the Oil and Gas Sector

Message from the CEO

With over 40 years of experience in the Middle East's dynamic oil and gas sector, I've had the privilege of witnessing the industry evolve through both opportunities and challenges. From rigging and refurbishment to commissioning over 60 land and offshore rigs, we have learned that success in this field requires not just expertise but also unwavering dedication to quality and reliability.

At GTO, we are driven by these values. My extensive experience has shaped our approach to supplying products and services tailored to meet the exacting demands for the oil and gas industry. We understand the challenges you face in ensuring seamless operations, which is why we focus on delivering high-quality tools, equipment, and solutions that you can rely on.

Our goal is to not just meet but exceed your expectations by combining our handson industry knowledge with a commitment to innovation and excellence to ensure uptime not downtime. Whether you are looking for trusted products or a reliable partner, GTO is here to support your operations every step of the way.

Thank you for choosing Gulf Technical Operations LLC as your partner in excellence.

Jerry Paul CEO, Gulf Technical Operations LLC



Our Founder Jerry Paul's Journey





One stop shopping where **oilfield solutions** / **services** is our goal

At Gulf Technical Operations LLC, we bring over 40 years of industry-leading experience to every well and project. As the trusted supplier of high-quality equipment and services, we proudly serve the Middle East, North Africa, and Southeast Asia with a commitment to excellence, reliability,



INTERNATIONAL AGENT FOR PRODUCTS AND SERVICES

















INTERNATIONAL AGENT FOR PRODUCTS AND SERVICES

> TJK Molded Products:

- Swivel packing, Union rubber components.
- OEM compatible swivel repair kits and plug valve repair kits.
- Retaining Kits, Dust Seals, Ball Plugs, and Ball Bearings.

FLOW VALVE Products for Crude oil Drilling:

- Integral Fittings.
- Pup Joints & Swivels Joints.
- Plug Valves-SS
- Manifolds & Hose Loops.

KERR PUMPS for oilfield Industries:

- Frac One Connect F1X.
- Fluid Ends for pumping units.
- Valves & Seats.
- Piston cup Assembly & Stuffing Boxes.
- Connecting Rods, Pony Rod Glands & Plungers

Affordable Automation Products to Precise Well Drilling:

- Servicing and Manufacturing automation Equipment's
- Industrial Control Systems & PLC Controls
- Customizing automated equipment's,

SILVER FOX Flow Control Tools & Protective Coatings:

- Oil & Gas well completion equipment and down-hole tools.
- Abrasion, corrosion, and erosion-resistant coatings for oil well equipment.

> Keystone Oilfield Fabrication LLC:

- Customizable high pressure storage Tanks & Vessels for oil field industry.
- Custom Steel Fabrication Services for Oil field & Construction Industry.
- Design and fabrication of oilfield transport equipment and propane storage.
- Manufacture and service of waste-handling equipment,





Introduction

With over 40 years of industry experience, TJK Molded Products has been a trusted name in rubber component manufacturing. Since TJK founding in 2009 by the Klingbail Brothers, TJK committed to delivering high-quality products from our state-of-the-art, 15,000 sq. ft. air-conditioned facility located in Ardmore, Oklahoma.

To date, TJKsuccessfully molded millions of rubber components, earning the trust of our clients through TJK dedication to precision and excellence.





Union Seal Rings

At TJK Molded Products, we offer a wide range of high-quality Union Seal Rings designed to meet diverse industrial requirements. Our seal rings are made from durable Buna-N rubber with precise specifications to ensure superior performance in flow-line applications.

Our Union Seal Rings are designed for durability, reliability, and optimal sealing performance. Whether you're in need of standard Buna-N components or enhanced options with bronze back-up, we have the solutions to suit your needs.



Duro with anti extrusion ring



Union seal ring

Part # Desc.

- SR621 1" Union Seal Ring Buna -N 80 Duro
- SR6215 1/12" Union Seal Ring Buna -N 80 Duro
- SR622 2" Union Seal Ring Buna -N 80 Duro
- SR623 3" Union Seal Ring Buna -N 80 Duro
- SR624 4" Union Seal Ring Buna -N 80 Duro
- SR152 2" Union Seal Ring Buna -N 80 Duro With Bronze back -up
- SR153 3" Union Seal Ring Buna -N 80 Duro With Bronze back -up
- SR154 4" Union Seal Ring Buna -N 80 Duro With Bronze back -up
- OR428 5" Fig 1002 seal ring -N 90 Duro With Bronze back -up
- SR156 6" Union Seal Ring -Buna -N 80 Duro With Bronze back -up





Swivel Packing Solutions

At TJK Molded Products, we manufacture a comprehensive range of Swivel Packing designed to deliver excellent sealing performance and durability in demanding flow-line applications. Constructed from premium Buna-N 80 Duro material, our swivel packing options meet industry standards and are compatible with various styles and configurations.

Our swivel packing solutions are designed to fit various swivel types, including SPM and FMC styles, ensuring compatibility and reliable performance across applications. Whether you need standard swivel packing or specialized repair options for oversized bores, we provide products tailored to your operational needs.





Part #	Desc.
SJ15295	2" Swivel Packing, Buna-N 80 Duro
SJ15395W	3" Swivel Wide Packing, Buna-N 80 Duro
SJ15395	3" Swivel Narrow Packing, SPM/FMC Style, Buna-N 80 Duro
SJ12495	4" 1002 Swivel Packing, Buna-N 80 Duro
SJ15495	4" 1502 Swivel Packing, Buna-N 80 Duro
SJ12495SPM	4" 1002 Swivel Packing, SPM Style, Buna-N 80 Duro
SJ12495FMC	4" 1002 Swivel Packing, FMC Style, Buna-N 80 Duro FLOW VALVE STYLE
SJ15495FV	4" 1502 Swivel Packing, Buna-N 80 Duro
SJ15195	1" Swivel Packing, Buna-N 80 Duro
SJ151595	1.5" Swivel Packing, Buna-N 80 Duro
SJ15395TSI	3" Swivel Packing, Buna-N 80 Duro TSI STYLE
SJ12495TSI	4" Swivel Packing, Buna-N 80 Duro TSI STYLE





Swivel Repair Kits

TJK Molded Products offers comprehensive Swivel Repair Kits to ensure seamless maintenance and repair of swivel assemblies. Each kit includes high-quality components designed for durability and precision, allowing users to restore their equipment to optimal performance.

SJ151RK: 1" Swivel Repair Kit

- Packing
- Dust Seal
- O-Ring
- Retaining Clip
- Ball Plugs
- Lub Plug
- 1/4" Ball



SJ1515RK: 1 1/2" Swivel Repair Kit

- Packing
- Dust Seal
- O-Ring
- Retaining Clip
- Ball Plugs
- Lub Plug
- 1/4" Ball

SJ154RK: 4" 1502 Swivel Repair Kit

- Packing
- Dust Seal
- O-Ring
- Retaining Clip
- Ball Plugs
- Lub Plug
- 5/8" Ball

SJ153RK: 3" Swivel Repair Kit

- Packing
- Dust Seal
- O-Ring
- Retaining Clip
- Ball Plugs
- Lub Plug
- 3/8" Ball

SJ124RK: 4" 1002 Swivel Repair Kit

- Packing
- Dust Seal
- O-Ring
- Retaining Clip
- Ball Plugs
- Lub Plug
- 1/2" Ball





Why Choose TJK Swivel Repair Kits?

Each kit is meticulously crafted to meet industry standards and includes everything required for efficient swivel maintenance. Whether you're repairing a 1" swivel or a 4" 1502 swivel assembly, our kits are designed to deliver unmatched quality and ease of use.





Low Torque Plug Valve Seal Kits

Enhance the performance and longevity of your plug valves with TJK Low Torque Plug Valve Seal Kits. These kits are engineered to provide superior sealing, reduce operational torque, and ensure reliable performance across various applications. Designed with precision and crafted from durable materials, our seal kits are ideal for maintaining the efficiency of your plug valves.

- \cdot 1" Low Torque Plug Valve Seal Kit
- \cdot 2" x 1" Low Torque Plug Valve Seal Kit
- \cdot 2" x 2" Low Torque Plug Valve Seal Kit
- \cdot 3" Low Torque Plug Valve Seal Kit
- 4" Low Torque Plug Valve Seal Kit







Swivel Dust Seals

TJK Molded Products offers a reliable range of Swivel Dust Seals crafted to protect swivel components from contaminants and enhance operational longevity. Manufactured from high-quality Buna-N 80 Duro material, these seals ensure durability and effective performance in harsh environments.

Our swivel dust seals are designed for precision and compatibility with various swivel configurations. Whether you're maintaining existing systems or upgrading components, TJK's dust seals provide the reliability and protection you need for optimal performance.

- DS152: 2" Swivel Dust Seal, Buna-N 80 Duro
- DS153: 3" Swivel Dust Seal, Buna-N 80 Duro
- DS124: 4" Swivel Dust Seal, Buna-N 80 Duro
- DS154: 4" 1502 Swivel Dust Seal, Buna-N 80 Duro
- DS151: 1" Swivel Dest Seal, Buna-N 80 Duro
- DS1515: 1 1/2 Swivel Dust Seal, Buna-N80 Duro







Swivel O-Rings

TJK Molded Products provides a high-performance selection of Swivel O-Rings designed to ensure secure and leak-proof sealing in swivel connections. Made from durable Buna-N 80 Duro, our O-rings are engineered for reliability, withstanding demanding flow-line conditions and preventing fluid leakage.

Our swivel O-rings are precision-molded for compatibility with a variety of swivel sizes and configurations, including wide and narrow styles. Designed for durability and efficiency, they are an essential component for maintaining system integrity and preventing operational downtime.

- OR231: 2" Swivel O-Ring, Buna -N 80 Duro
- OR342: 3"WideSwivel O-Ring, Buna- N 80 Duro
- OR247: 4"Swivel O-Ring, Buna- N 80 Duro
- OR240: 3"Narrow Swivel O-Ring Buna N 80 Duro







Swivel Ball/Retaining Plugs

At TJK Molded Products, we offer a premium range of Swivel Ball/Retaining Plugs engineered for durability and precision in flow-line applications. Our products are compatible with a variety of swivel sizes and configurations, ensuring seamless performance across demanding industrial environments.



These components are meticulously crafted to meet the highest industry standards, delivering reliable performance and extended service life. Whether you require a retaining plug for standard swivels or specialized configurations like FMC-SPM styles, our range provides the ideal solutions for your operational needs.

- SJ151PL: 1" 1 1/2" Swivel Ball/Retaining Plug
- SJ152PL: 2" 3" Swivel Ball/Retaining Plug
- SJ124PL: 4" Swivel Ball/Retaining Plug
- SJ154PL: 4" 1502 Swivel Ball/Retaining Plug
- FMC124PL: 4" FMC SPM Swivel Ball/Retaining Plug
- SJLP: Lub Plug 1/4" x 3/8" Slotted Screw





Swivel Ball Plug/Retaining Clips & Detachable Nut Retaining Rings

TJK Molded Products offers a diverse range of Swivel Ball Plug/Retaining Clips and Detachable Nut Retaining Rings designed for durability and reliable performance in industrial flow-line applications. Our products are engineered to fit various swivel configurations, providing seamless compatibility and exceptional functionality.





These products are built with precision and durability, ensuring optimal performance in challenging environments. Whether you need retaining clips for swivels or detachable retaining rings for Fig 1502 and Fig 1002 configurations, TJK's range is crafted to meet your needs with excellence and reliability.

Swivel Ball Plug/Retaining Clips

- SJ151CL: 1" 1 1/2" Swivel Ball Plug/Retaining Clip
- SJ152CL: 2" 3" Swivel Ball Plug/Retaining Clip
- SJ124CL: 4" Swivel Ball Plug/Retaining Clip
- SJ124CL-FS: 4" Swivel Ball Plug/Retaining Clip

Detachable Nut Retaining Rings

- WSM225RR: 1" Fig 1502 Detachable
- WSM306RR: 1 1/2" Fig 1502 Detachable
- WSM325RR: 2" Fig 1502 Detachable/Nut Retaining Ring
- WSM450RR: 3" Fig 1502 Detachable/Nut Retaining Ring
- WSM550RR: 4" Fig 1002 Detachable/Nut Retaining Ring
- WSM600RR: 4" Fig 1502 Detachable/Nut Retaining Ring







Chrome Steel Balls

TJK Molded Products supplies high-quality

Chrome Steel Balls for industrial applications, precision-engineered to deliver superior durability, strength, and performance. Manufactured with **Grade 25 Chrome Steel**, our balls are designed for a wide range of uses, ensuring consistent reliability and precision.



These chrome steel balls are ideal for high-load, high-precision environments and are built to meet the rigorous demands of industrial applications. Whether used in swivel assemblies, bearings, or other critical components, TJK's chrome steel balls offer unmatched quality and dependability.

- **B250:** 1/4 Chrome Steel Ball Grade 25
- B375: 3/8 Chrome Steel Ball Grade 25
- B500: 1/2 Chrome Steel Ball Grade 25
- B625: 5/8 Chrome Steel Ball Grade 25





O Rings

OUR PRODUCT RANGE

Part#	AS568#	Material	Durometer
OR361-90	AS568-361	BUNA	90 DUROMETER
OR353	AS568-353	BUNA	70 DUROMETER
OR352	AS568-352	BUNA	70 DUROMETER
OR351-90	ASS68-351	BUNA	90 DUROMETER
OR348	AS568-348	BUNA	70 DUROMETER
OR344	AS568-344	BUNA	70 DUROMETER
OR343-90	AS568-343	BUNA	90 DUROMETER
OR342	AS568-342	BUNA	70-80 DUROMETER
OR339	ASS68-339	BUNA	70-80 DUROMETER
OR264-90	AS568-264	BUNA	90 DUROMETER
OR259-90	AS568-259	BUNA	90 DUROMETER
OR254-90	ASS68-254	BUNA	90 DUROMETER
OR251	ASS68-251	BUNA	70-80 DUROMETER
OR250	AS568-250	BUNA	70 DUROMETER
OR249	AS568-249	BUNA	70 DUROMETER
OR248	ASS68-248	BUNA	70-80 DUROMETER
OR247	AS568-247	BUNA	70-80 DUROMETER
OR245-90	ASS68-245	BUNA	90 DUROMETER
OR242	ASS68-242	BUNA	70 DUROMETER
OR240	AS568-240	BUNA	70-80 DUROMETER
OR239-90	AS568-239	BUNA	90 DUROMETER
OR236-90	AS568-236	BUNA	90 DUROMETER
OR231	ASS68-231	BUNA	70-80 DUROMETER
OR230-90	AS568-230	BUNA	90 DUROMETER
OR219-90	AS568-219	BUNA	90 DUROMETER
OR147	AS568-147	BUNA	70 DUROMETER
OR145	AS568-145	BUNA	70 DUROMETER
OR114	ASS68-114	BUNA	70 DUROMETER
OR008	AS568-008	BUNA	70 DUROMETER





Introduction

Over 230,000 sq. ft. of manufacturing space under one roof-our facility offers unmatched machining, fabricating and assembling capabilities. Our organization boasts over 255 machines, which gives us the ability to rapidly respond to customer demand. Our machine arsenal includes live tooling lathes, 5-axis boring mills, vertical machining centers and horizontal machining centers. FlowValve and KERR Pumps are one of the largest machining companies in all of Oklahoma.

FlowValve meets and exceeds the requirements stated in the ISO :001:2015 quality manual. We believe in not only meeting, but exceed mg our customers' needs through continuous improvement. All of our products meet or exceed API standards. Our commitment for perfection is the gold standard for well service products. Every FlowValve part is hydro-tested at 1 ½ times CWP. During the testing each part is inspected with a high focus camera lens to check for leaks. Once each part passes the test, results are charted and stored in our database by serial number.

Our PQC with iPAR technology is a revolutionary quality system that uses a touch trigger probe to inspect every part in the machine as it is made. It detect deviations of the machine and automatically recalibrates itself during the machining process.





CHECK VALVE

TRANSFER THE WEAR





Our revolutionary patent-pending Super Seal[™] check valve is designed to transfer the wear from the normal failure points. We have re-engineered the flapper, seat, pin, and halo to perform at a whole new level. Now, for the first time ever, there is a check valve designed to hold up to today's frac jobs!

HYDRO-DYNAMIC



Our patent-pending flapper design has a unique geometry that Transfers the Wear away from the sealing surfaces of the flapper. This hydro-dynamic feature provides extra liftoff for the flapper, redirecting the flow down to the through bore without having direct contact with the sealing surfaces of the flapper!





CHECK VALVE

WHERE'S THE COATING?





We designed the Check Valve SS[™] flapper to last well beyond 40 stages! Our proprietary coating is 10X more wear and erosion resistant than standard polyurethane. Frequent flapper kit changes are now a thing of the past.

SUPER SEAL DESIGN





Seal placement is critical. That's why we designed our seal to snap into the face of the seat, and out of the direct flow path. This design decision allowed us to focus more on sealing instead of worrying about a coating that can hold up to abrasive proppants. Our Check Valve SS[™] sealing technology is engineered for high pressure sealing





CHECK VALVE

ENGINEERED BUSHING SYSTEM

In standard bushing systems, as the pin and halo wear, the flapper begins to drop, causing an inadequate seal. Our Super Seal Check Valve[™] HALO is engineered with a patent-pending, tungsten carbide bushing system that virtually eliminates the wear from the rotating pin. This new design feature prevents the flapper from dropping, maintaining a proper seal. Our advanced bushing system gives the degree of freedom necessary for sealing performance, while extending the life of the product!

HELLO HALLO

Our new HALO is designed with the Equipment Operator in mind. Simply drop in the flapper assembly and remove the HALO by hand. This design means no more press fit that's hard to get in and out. Field maintenance just got a whole lot easier.

A SEAT YOU'RE FAMILIAR WITH

Standard Check Valve seats are hard to maintenance. Some are press fit in and a nightmare to remove. Others are threaded and prove difficult to get out. We designed our seat to taper lock in place. This is the same technology used to seal and lock fluid end valve seats! Each check valve seat is made with a proprietary stainless steel, then heat treated for extreme erosion and corrosion resistance.





FLOWLINE

Seamless integration



The design of the NPST pup joint takes end connections and attaches them to threaded pipe. The quality of these parts is critical to form and function. Our process is designed for a seamless integration between pipe and union. It's hard to tell where one part begins and the other ends

Custom lengths in every size



Our standard pup joints come in a variety of lengths from one foot to twenty feet. We also make custom lengths everywhere in between. At FLOWVALVE, we are certain that getting the perfect fit is easy with size configurations offered in 2", 3", 4" Fig 1502 and 4" Fig 1002.





FLOWLINE

Flowline that flows



Saying our NPST pup joint production process is efficient is an understatement. From saw cutting to shipping, our industrial engineers mapped the most streamlined production processes. We reviewed every detail and designed a system that makes FLOWVALVE's flowline flow.





HOSE LOOPS

Endless possibilities



FLOWVALVE hose loops are used in a wide variety of well service applications, such as circulating lines, water lines, discharge lines, well test lines and temporary flowlines. Our hose loops are used most extensively for primary and secondary cementing operations

Forefront of Technology



By implementing an innovative and unique swivel joint technology, FLOWVALVE hose loops can easily move in any lateral direction. The swivel joint used in our hose loops is also used to control vibration and absorb shock. Once you used our hose loops, you will want to use them forever.

A variety of options



Different jobs require different solutions, and that is why we offer our hose loops in 6', 8', 10' and 12' lengths. This variety of lengths gives you the opportunity to choose the right products for your job.

More life equals more value



FLOW VALVE hose loops are made from high alloy U.S. steel. Our new advanced material results in better heat treatment and more durable products. With this new material, we have been able to extend the life of our hose loops even further.



Why buy hose loops that have undergone a thorough design analysis review? Why use a product that has been tested at $1\frac{1}{2}$ CWP? Why rely on a product that simply lasts longer in the field? Here at FLOWVALVE, we ask, "Why not?"





INTEGRAL FITTINGS

Tees



FLOWVALVE tees are widely used in hard plumbing applications. Our tees have an amazing repeatability for overall part length. This reliability makes it easy to hard plumb your red iron. With multiple configurations and sizes, our tees are the best way to wing up

Crosses



A cross between precision and performance. With precision hammer unions and the best sealing technology available, our crosses are great for applications where an intersecting flow is needed. Each cross is machined from high alloy forged steel that is heat treated for long lasting performance.

Cushion ells



Cushion from the male or female. With extra material at the end of the elbow, our cushion ells are designed for extended service life. This feature behaves as a shock absorber, helping combat wear from abrasive slurry used in high pressure pumping.

Sweep 90's



Bent 90 degrees for a smoother flow. With our swivel bending technology, we are able to bend a 90 degree elbow that can be used as an additional option for flowing 90 degrees. Because of their low wear rate and smoother flow, sweep 90's are a very popular choice for flowback operations.





INTEGRAL FITTINGS

Crossovers



Change over from one size to another. We offer every combination of cross overs in 1", 1 ½", 2", 3" and 4" Fig 1502 and 4" Fig 1002 connections. We carry an assortment of crossovers in stock and can make to order with our state of the art machining cells. We also machine special length crossovers on request.





A great way to branch out. Our laterals are frequently used in frac manifolds and other high pressure manifolds. Each lateral is machined from U.S. forged, heat treated steel. They are available in 3" Fig 1502, 4" Fig 1502 and 4" Fig 1002 working pressures with custom end connections to fit your needs.





PLUG CATCHER



Heavy duty screen system

Rated for 10,000 or 15,000 CWP



With laser cut slots or holes, our integrated screen system is the best way to catch trash on flow back operations. The screens are threaded on the O.D. to easily detach from the crossover. This makes it amazingly quick and easy to clean out or replace screens when needed.



With laser cut slots or holes, our integrated screen system is the best way to catch trash on flow back operations. The screens are threaded on the O.D. to easily detach from the crossover. This makes it amazingly quick and easy to clean out or replace screens when needed.





PLUG CATCHER

Flow in. Flow out



Our standard plugcatcher design flows in at 3" Fig 1502 and flows out at 2" Fig 1502 or 3" Fig 1502 to handle normal flowback operations. Customizable design options are available upon request.

No welds on any high pressure iron.



With custom pipe clamps and an innovative thread design for the crossover and screen, our plugcatchers have zero welding on all of the high pressure iron. This safety feature prevents micro cracking that is often found in welding heat treated metals.Bent 90 degrees for a smoother flow. With our swivel bending technology, we are able to bend a 90 degree elbow that can be used as an additional option for flowing 90 degrees. Because of their low wear rate and smoother flow, sweep 90's are a very popular choice for flowback operations.

Skid mounted



Made for fast rig ups and ease of operation, our plugcatchers are mounted on a skid with heavy duty pipe clamps. With forklift slots designed into the skid, the plugcatcher manifold is easy to load on and off trailers for easy transportation

FLOWVALVE Signature



Producing a high performing plugcatcher is easier when you have complete control. Every plugcatcher component has the FLOWVALVE signature, from plug valves, tees, crosses, pup joints and crossovers right down to the skid. When we sign off on something, we always stand behind it.





PLUG VALVE

Quality is in our name



We took all of our experience and packed it into a design that is truly remarkable. From engineering to manufacturing, our plug valves utilize the most advanced manufacturing processes.

Gear up with our gear op



Our gear operated valves are manufactured in house with the same standard of quality as all FlowValve products. FlowValve offers gear operated valves in 3" Fig 1502, 4" Fig 1002 and 4" Fig 1502.



Greasing is very important for the performance of plug valves. Knowing that, we use only the very best grease in our valves during assembly. We also provide the same grease in our plug valve repair kits

From start to FINISH



FlowValve plug valve inserts have a RMS finish that is twice as smooth as the industry standard. You can feel the difference in quality when you actuate a FlowValve plug valve.





PLUG VALVE

Patent pending machining process



Our patent pending machining process provides us with the ability to make the most precise parts in the industry. The taper of our plug valve is probed with a touch trigger probe. The probe results are analyzed and the CNC machine is adjusted to ensure the parts are machined to the design specifications. Variation has been reduced to microns

Advanced Torque System



Our advanced torque system ensures that every plug valve adjusting nut is set to an exact torque level. Combine that with our incredible machining processes and you get a product that is consistent. Our design is engineered to give the customer a new level of confidence




PLUG VALVE SUPER REAL TECHNOLOGY

A Work of Genius



We took all of our experience and packed it into a design that is truly remarkable. From engineering to manufacturing, our plug valves utilize the most advanced well service technologies. We put together a talented team that produced a work of genius

Plug Valve Perfected



We didn't try to reinvent the wheel, we perfected it! Our new patent-pending plug valve design removes the most common failure point of traditional plug valve designs. This new innovation adds incredible performance life to the plug valve body. Our new plug valve significantly reduces operating costs

Paradigm Shift



Most plug valves fail at the sealing surface inside the body of the plug valve. This is where the body seals against the O-ring installed into the insert. Over time, the sealing surface of the body wears out and loses its ability to hold pressure. Our patent-pending design removes this issue by transferring the seal groove from the plug valve inserts to the plug valve body

SUPER SEAL TECHNOLOGY



When we reinvented the plug valve, we didn't stop at the groove. We designed a new seal to exclusively handle the extreme services of plug valves. The Super Seal[™] was engineered with a proprietary elastomer that outperforms the standard O-ring used in traditional plug valves. The Super Seal[™] is molded to snap right into the plug valve body groove, making assembly simple and easy





PLUG VALVE SUPER **REAL TECHNOLOGY**

Brand New Sealing Patent-Pending Surface in Every Kit Quality System

Our patent-pending Grooveless Inserts™ were reimagined for performance. The outside diameter of the insert now seals against the Super Seal™ that's installed in the body of the plug valve. This new design transfers the wear from the plug valve body to the replaceable inserts. Now every time you rebuild a plug valve you get a brand new sealing surface

Premium Grease for Premium Results

Greasing is very important for the performance of plug valves. Knowing that, we use only the best grease in our valves during assembly. We also provide the same grease in our plug valve repair kits. Our decision to use the very best makes all the difference

Advanced Torque System

Each plug valve adjusting nut is set to an exact torque level with our advanced torque system. Combined with our innovative manufacturing technologies, this assembly procedure produces parts that are always reliable. This process design was engineered to ensure a new level of confidence

Patent-Pending iPAR



Our patent-pending iPAR quality system helps us make the most precise parts in the industry. A touch trigger probe measures the taper on our plug valves and results are analyzed by the machine. Measurements are made in microns. No one else can offer this much precision

Gear Up with **Our Gear Op**

FlowValve gear operated valves are manufactured inhouse with the same standard of quality as all our products. FlowValve offers gear operated valves in: 3" Fig 1502, 4" Fig 1002 and 4" Fig 1502







SWIVELS

Our swivels... Last longer



FlowValve gear operated valves are manufactured inhouse with the same standard of quality as all our products. FlowValve offers gear operated valves in: 3" Fig 1502, 4" Fig 1002 and 4" Fig 1502

Heat treated to the highest standards.



Our heat treat process has been refined and dialed in to give our swivels the ultimate durability. Our high hardness yet extraordinary tensile yield gives FlowValve swivels a unique combination of strength and durability without sacrificing ductility. Each swivel joint is heat treated and case hardened to withstand the toughest well service environments

Design analysis review



Our licensed engineers have conducted a complete design analysis review on our swivel joints. By using tools such as finite element analysis and non-destructive testing, we have proven that our swivels will perform as they are designed. Our extraordinary attention to detail ensures that the dimensions and specifications have been proven to perform the job at the highest level.

Advanced bending technology



It all begins with a perfect bend. That is what makes great swivel joints great. We have invented a process that is one of the most innovative and complex in the industry. This process gives us the ability to continuously make a consistent bend. This repeatable bend creates a concentric through-bore which minimizes turbulence, creates a smoother flow, and reduces wear. We are committed to "bending" over backwards for our customers.





SWIVELS

Patented machining process



Our patented machining process was designed to help us leapfrog the industry in production efficiency. We have achieved cycle times that are unmatched in swivel production. Our process is also more stable than traditional machining and bending methods. This breakthrough technology is unlike anything ever used before

Winning the race



Our advanced ball races are designed to give superior strength and movability. Our ball races are machined and measured with an intuitive manufacturing process developed at FlowValve. This patent pending process meticulously analyzes the part on a CNC machine and gives instantaneous feedback to the machinist. This enables us to measure our ball races in microns. No one else can offer this much precision or this much reliability.





Introduction

One Kerr Pump: Built to Power, Engineered to Last!



Since its founding in 1946, Kerr Pumps Corporation has been a leader in delivering reliable, high-performance pumps to the oil and gas industry. Originally based in Ada, Oklahoma, Kerr Pumps relocated to Sulphur, Oklahoma in 1992 to support its growth and improve access to major transportation routes. Under new ownership in 1996, the company expanded its product line to serve a variety of industrial applications, earning its reputation as one of the top manufacturers of FRAC pumps globally, renowned for exceptional quality.

One Roof, One Vision

At Kerr Pumps, every step of the production process—from design and engineering to machining, assembly, and testing—occurs under one roof at our state-of-the-art facility in Sulphur, Oklahoma. This unified approach fosters seamless collaboration, efficient problem-solving, and faster response times, giving Kerr Pumps an unmatched advantage in the industry.

Breakthrough Technology: iPAR[™] and PQC[™]

Kerr Pumps leads the way in innovation with our patent-pending iPAR[™] (in-Process Automatic Recalibration[™]) technology. Unlike traditional CNC machines that can lose calibration due to coordinate drift, iPAR[™] automatically detects deviations and recalibrates in real-time, ensuring unparalleled precision. This revolutionary technology powers our Programmable Quality Control[™] (PQC[™]) system, where quality is integrated directly into the manufacturing process, not inspected after the fact. Developed over two years, PQC[™] eliminates defects by embedding quality at every stage of production.







FRACKING PUMPS

Kerr Pumps: Redefining Durability and Precision, Delivering Power That Never Quits!



The EF5 well service pump is designed to exceed the demands of the pressure pumping and stimulation in-dustry. The first of its kind, the EF5 is engineered for continuous duty frac and solves the common failure modes associated with traditional reciprocating pump designs.

The EF5 is comprised of modular subassemblies making up the power frame, gear box, and fluid ends. These independent subassemblies ensure easy maintenance and maximum performance, while providing peak longevity.

> NEED THE PERFECT PUMP? SELECT YOUR PSI AND GPM - LET KERR MATCH YOU WITH THE ULTIMATE SOLUTION!







FRACKING PUMPS

Power End

The power frame consists of an integrally cast crankshaft housing, and independently cast crosshead guides, compressed between forged alloy steel plates via KERR's patent-pending Thru-Rods. This "No-Weld" frame system eliminates the frame cracking commonly associated with traditional fabricated power frames and re-duces power frame flexure by 90% versus legacy equipment. The Thru-Rods are pre-loaded with a hydraulic tensioning tool to prevent cyclic loading and maximize fatigue life.

The patent-pending connecting rod / cross head design eliminates the bushings traditionally used on the con-necting rod knuckles, instead making use of fully cylindrical roller bearings. These full sized roller bearings minimize unit loading during operation and more reliably lubricate – even in the event of compromised discharge valves. This design also transfers wear away from the connecting rod to a replaceable, automotive style, wrist pin.

Gearing

The EF5 is driven by a single 16.6" wide herringbone bull gear and pinion at a 6.286:1 ratio. The single sided bull gear prevents torsional deflection in the pinion shaft and more efficiently transfers torque to the crank-shaft. Each gear has its own pair of roller bearings and does not rely on crank center main bearings to carry gear box loads. The bull and pinion are located in an isolated cast housing with mounting feet preventing overhung loads.

Fluid End

The EF5 replaces the traditional fluid end with 5 modular in-line "Vortex" fluid end pods. Each pod is com-prised of one suction valve, one discharge valve, and one shared two-sided seat – all parallel with the plunger bore. KERR's replaceable packing sleeve is incorporated into the fluid end pod with a reduced number of parts and an increased safety factor. Each pod is further optimized to isolate cyclic fatigue away from inter-secting bores and eliminate reciprocating seal wear.

With only one entry point and no interference fit on the single seat, failure modes have been eliminated, maintenance has been simplified, and the number of parts and tools has been reduced.

Frac One Connect - FIX

The Most Technologically Advanced Fluid End

Kerr Pumps' patent-pending Frac One CONNECT Fluid End will bolt right up to your existing stay rods with a more rigid, flangeless design..







FRACKING PUMPS

Frac One CONNECT is the best fluid end we have ever manufactured, and ships with these technologies:

Super Stainless II

The strongest stainless steel ever used for a Frac Fluid End



SUPER STAINLESS II



Super Seal Design

Replaceable stuffing box sleeves with all seals embedded into the fluid end to prevent washouts.

Tungsten Super Seat

Tungsten carbide valve seats are designed to protect the fluid end from valve seat deck washouts. These seats last up to ten times longer than traditional valve seats!





Frac One System

Our patent-pending Frac One X bolt on threaded retainers are for replacement of stuck retainer and packing nuts by unbolting the assembly box. It also has the speed and performance of a threaded retainer nut.





FLUID ENDS

NEED THE PERFECT FUILD ENDS? SELECT YOUR PSI AND GPM - LET KERR MATCH YOU WITH THE ULTIMATE SOLUTION!

CLICK HERE



QWS2500HD

Stroke: 8 Inches **Materials**: Super Stainless™



PSI	GPM	BPM
17,905	718	17.1
14,147	909	21.6
11,459	1,122	26.7
7,958	1,616	38.5
6,781	1,896	45.1
	PSI 17,905 14,147 11,459 7,958 6,781	PSI CPM 17,905 718 14,147 909 11,459 1,122 7,958 1,616 6,781 1,896





FLUID ENDS

TWS2500HD

Stroke: 8 Inches **Materials**: Super Stainless™



PLUNGER SIZE	PSI	GPM	ВРМ
4"	17,905	431	10.2
4.5" 5"	14,147 11,459	545 673	12.9 16
5.5" 6" 6.5"	9,470 7,958 6,781	815 969 1138	19.4 23.1 27.1
0.0	0,701	1,150	27.1

TWS600S

Stroke: 6 Inches **Materials**: Super Stainless™



PLUNGER SIZE	PSI	GPM	ВРМ
2.75"	16,832	208	5
3"	14,147	248	5.9
3.5"	10,384	337	8
4"	7,958	441	10.5
4.5"	6,288	588	13.3





FLUID ENDS

T60WS

Stroke: 6 Inches **Materials**: Super Stainless™



PLUNGER SIZE	PSI	GPM	BPM
3"	12,000	207	4.9
3.5"	8,817	281	6.7
4"	6,750	367	8.7
4.5"	5,333	465	11.1





Don't Let the 7 Failure Hold You Back-Experience Kerr Pumps Superior Design



Failure 01

Intersecting Bore Cracking

Intersecting bore cracking was the number one failure for fluid ends until we cracked the code. Kerr Pumps fluid ends are built to frac! Made with Super Stainless II – the strongest and toughest stainless steel ever used in a fluid end – each Kerr Super Stainless fluid end model is engineered with proprietary stress reducing geometries that are optimized to withstand the highest loads in the industry. All of these Transfer the Wear™ design benefits are all available in our all new patent-pending Frac One Connect fluid end!



Failure 02

Packing Bore Washouts | Washboarding

Washouts are the #1 cause of fluid end failures today! Kerr Pumps patent-pending Super Seal design has a removable sleeve in the packing area which is a dual sacrificial piece. The sleeve's internal bore is engineered to save a fluid end from packing washout. The outer surface of the sleeve seals against a seal that is embedded into the fluid end designed to Transfer The Wear from the fluid end to the outside of the sleeve.

Each sleeve is field repairable, providing a windfall of savings for service companies! Beware of using press fit sleeves as they are not only costly, but the need to machine them out is very time consuming! Also, watch out for sleeves that have seals on the face and outer side, because these sleeves just move the failure point from the packing bore to the seal bore.

Every patent-pending Frac One Connect model ships with our Super Seal packing bore sleeves.







Failure 03

Suction Seal Bore Wash/Wear

The cyclic nature of the reciprocating pump is the culprit for causing suction seal bore wash and wear.

As the plunger strokes back and forth, the suction cover breathes. This breathing movement causes the seal to wear out the seal bore in the fluid end. This wear and wash becomes even more accelerated when 100 mesh sand gets into the seal interface. Additionally, if the retainer nut begins to back out during operation, the wash and wear becomes more severe.

Our patent-pending Super Seal® embedded in the fluid end, moves the seal from the suction cover to the fluid end. This enables us to Transfer The Wear™ to the suction cover and away from the fluid end, protecting the fluid end from wash and wear.





Discharge Seal Bore Wear

The discharge seal bore wears as it rubs against the seal on the discharge plug. During maintenance, when valve seats are pulled to change out parts, the tools used often hit the seal bore damaging the fluid end.

Our patent-pending Super Seal® design creates a groove to house the seal for the discharge bore. Moving the seal groove to the fluid end, enables us to Transfer The Wear™ to the discharge plug, protecting the fluid end.

Failure 05

Valve Seat Deck Washouts/Cracks

The valve seat often cracks inside of the seat flange area. Once the seat cracks, a wash point occurs, washing out the fluid end. Also, changing valve seats are one of the biggest maintenance headaches.

For years, our research and development team has worked with tungsten carbide seats. In that time, we have learned a great deal

• Tungsten carbide performs poorly in tension, but holds up well in compression.

• Tungsten carbide can last up to 10 times the life of normal seats, but it can cost up to 12 times the price of standard seats.







Failure 06

Thread Cracking

The retainer nuts on a 4.5" plunger, pumping at 12,000 PSI, undergoes up to 287,467 lbs of cyclic load. To just equal that pressure load and get it out of cyclic stress, 19,404 lb/ft of torque would need to be applied. All that pressure added to the galling, wear, and tear on the fluid end threads and retainer nuts causes thread cracking.

We developed the patent-pending Frac One bolt on design to combat the problem of thread cracking. By spreading the load to 8 studs per hole, we reduced the load for each stud to 35,934 lbs. And, with each stud torqued to 700 lb/ft cyclic stress was removed.





Failure 07

Flange Failure

Using a flange for the stay rods has never been an optimal solution. Flanges produce a lot of flex in the fluid end and create a great deal of waste in time and material during machining. When flex occurs in a flanged fluid end, it causes the stay rod nuts to lose torque, and can increase the likelihood of fatigue cracking in the intersecting bore (reverse loading). And, on rare occasions, we have even seen cracking happen at the flange.





PLUNGER & PISTON PUMPS

INDUSTRIAL PUMPS (PLUNGER AND PISTON PUMPS) NEED THE PERFECT PUMPS SELECT YOUR PSI AND GPM - LET KERR MATCH YOU WITH THE ULTIMATE SOLUTION!





Why Choose Kerr Pumps?

- Decades of Expertise:
- Over 75 years of experience in engineering dependable pumps. • Innovative Designs:
- Advanced technology for high performance and reliability.
- Custom Options:
 Specialty metallurgy available for unique industrial requirements.
- American-Made Quality:
 All products are designed, manufactured, and tested in the USA.

Plunger & Piston Pumps

- Over 100 Standard Models
- Power Range: 5 625 BHP
- Flow Rate: Up to 600 GPM (Gallons Per Minute)
- Volume: Up to 21,000 BPD (Barrels Per Day)

APPLICATIONS

Oil & Gas Industry

- Horizontal Directional Drilling (HDD)
- Sand Fracing
- Oil Pipeline Transfer
- Well Kill Trucks

Industrial Applications

- Mining
- Chemical Industry
- Hydraulic Power
- High-Pressure Water Jetting

Construction & Agriculture

- Cement Slurry
- Construction Industry
- Agriculture

Municipal and Public Services

- Fire Control Services
- Public Transport
- Municipal Services

Specialized Fields

- Descaling Steel
- Reverse Osmosis
- Food & Beverage Industry
- Nuclear Power Plants

Others

- Hydrostatic Testing
- Car Wash Systems (Self-Serve, Automatic, Touchless)
- Military Service
- Ship Building





PLUNGER & PISTON PUMPS - TYPE OF PUMPS













PLUNGER & PISTON PUMPS - TYPE OF PUMPS







Kerr Orginal Parts



Plungers

We continue to develop the most advanced coating technologies that cover a wide range of applications. We stock four premier plungers that include: tungsten carbide, ceramic, Kerramic and Black Gold. Our tungsten carbide plunger lasts twice as long as the nickel alloy that exhausts the marketplace.



Valves and Seats

Kerr Pumps manufacturers a wide variety of high quality valves and seats. We offer plenty of configurations and materials to choose from such as our more popular salt bath nitrided 17-4 stainless steel. We also keep in stock a full line of Well Service inserted valves and o-ringed seats.







Piston Cup Assembly

Our engineers have developed piston assemblies with precision molded replaceable piston cups, molded in fabric reinforced nitrile rubber. Coupled with a 300 series stainless steel piston body, this assembly ensures optimum corrosion and abrasion resistance, regardless of liner material.





Stuffing Boxes

We manufacture replacement stuffing boxes in a variety of styles, sizes and materials for a broad range of packing arrangements and elastomers. The necessary precision in each box enables a perfect interface for maximum packing life even in the most demanding temperature and pressure conditions.

Connecting Rods

The entire Kerr Pumps product line utilizes high strength cast ductile iron, maintaining stable housings for precision fit wrist pin bushings and crankshaft inserts. Each connecting rod is made from U.S. foundries and is machined on one of our precision CNC horizontal machining centers.







Pony Rod Glands

All of our pony rod glands are machined in-house on one of our many CNC lathes. The level of precision and finish in each gland gives an incredible repeatability from part to part. This consistency extends the life of each seal and pony rod which keeps you pumping longer in the field.





And Many More!

We believe that making incredible pumps is just part of the game. Our main focus is taking care of our customers. That is why we stock a full line of pump replacement parts. We do our absolute best in meeting customer demands and continue to strive to be the most responsive pump company.





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Introduction

Open And Close Equipment

Open And Close Equipment geared to offer the oil industry a wide variety of Both standard and custom units that will fit your needs. Our facility located in Rosenberg, Texas USA manufacture, assemble, and fabricate these units. Feel free to contact us for your next Request for Quote.

Open and Close Equipment offers:

Accumulator units

Workover units

Test units

Repair kits

Accessories

Replacement parts

Just ask GTO for a quote, and you will get:

- Service to meet your needs.
- Quality to meet API 6A, 16A, & 16D certification
- Delivery to anywhere in the world





ACCUMULATORS

Each control system is expertly engineered, assuring reliable control of the BOP stack with adequate reserve for continuous operation under emergency conditions.BOP closing units also known as Accumulator Units range in a variety of sizes. These units come standard with air/electric over hydraulic design but can also be delivered as a diesel driven setup.Here are some standard designs which can be customized to meet your needs.



3 Station 6 Bottle Accumulator With Electric Motor



4 Station 10 Bottles with Electric Engine, Starter & Alarm System



5 station 10 bottles with Diesel Engine Accumulator Unit



6 Station 20 Bottles Hydraulic over Pneumatic System Accumulator Unit





ACCUMULATORS



6 Station 16 Bottles with Diesel Engine & Auto Starter Accumulator Bottlers



6 Station 24 Bottles Accumulator Unit with Alarm System



8 station 20 bottles with Electric Motor Accumulator Unit



9 Station 24 bottles with Electric Engine & Alarm System Accumulator Unit



12 Station 20 Bottles with Electric Motor Accumulator Unit





ACCUMULATORS - with Remote PLC System



6 Station 24 Bottle Accumulator With Allen Bradley PLC



8 Station 24 Bottle Accumulator With Siemens PLC



9 Station 36 Bottle Accumulator With 2 Electric Engines And Siemens PLC



10 Station Bottle Rack Accumulator Unit With PLC And Diverter



40 Bottles Rack 15 Gallon 5000 psi.





WORKOVERS

Open And Close Equipment's Workover Units meet design specifications specified in API 16D. Workover units have been an industry staple for over 30 years for performing well workovers that require large diameter workover strings, or operating the workover under high pressures, or both.

Here are some standard units that can also be customized to meet your needs.



3 Station 4 Bottles with Gas & Air System Trailer Mounted Workover Unit



3 Station 4 Bottles with 2 Gas Engines - Starter Box -

Alarm System - Nitrogen Bottles & Pedestal Panel

4 Station 4 Bottles with 2 Diesel Engine - Alarm System & Nitrogen Back Up



4 Station 8 Bottles with 2 Diesel Engine - 2 Auto Starter - Nitrogen Bottles & Panel

Portable Units





Standalone Units



3 Station 4 Bottles with Gas Motor & Triplex Pump Workover Unit



3 Station 4 Bottles with Gas Motor Workover Unit



3 Station 4 Bottles with Nitrogen Bottles - Diesel Engine & Auto Starter Box Workover Unit





TESTING UNITS

Open And Close Equipment's Accumulator Units meet design specifications specified in API 16D. Each control system is expertly engineered, assuring reliable control of the BOP stack with adequate reserve for continuous operation under emergency conditions.BOP closing units also known as Accumulator Units range in a variety of sizes. These units come standard with air/electric over hydraulic design but can also be delivered as a diesel driven setup.Here are some standard designs which can be customized to meet your needs.

New Models



Hydrostatic Test Unit with electric pump up to 15000 psi Includes Hydraulic Pump with regulable control for high torque wrench

with Triplex losured () t

10,000 psi with Triplex Pump Enclosured



Test Unit with Electric Motor, Pneumatic System & Bottles







ACCESSORIES

Open And Close Equipment's accessories meet design specifications specified in API 16D

Duplex & Triplex Pumps

5 to 60 HP - 3000 psi - Voltage: 230, 480, 380, & 575



Air Operated Hydraulic Pumps

Ratio: 30:1 | 50:1 | 60:1 | 140:1 | 200:1 | 300:1







Hydraulic Regulator Valves











Fail Safe Motor Pneumatic Pilot

Bladder Accumulator

3,000 to 5,000 psi - top & bottom loading bladder types



Manual





Electronic Remote Panels



Air Remote Panels

3,000 to 5,000 psi - top & bottom loading bladder types



Master



Auxiliary



Small Auxiliary





Hydraulic Control Valves

1/4" | 1/2" | 1" | 1 1/2"



Hydraulic Pressure Fittings

10,000 to 60,000 psi - stainless steel 316





Various Accessories

Air Pressure Regulators | Pneumatic Control Valves | Hydro Electric Pressure Switches | Hydro Pneumatic Switches | Hydraulic Pressure Switches | Pulley, Belt, Pulley Guards | Air Cables | Air Filters & Lubricators | Name Plates For a full listing of our products, download our catalog, or check out our other new catalog specifically for High Pressure Fittings.





Introduction

Affordable Automation Products

Affordable Automation is a company that takes pride in its work and treats our customers like family. We specialize in Technology to assist our customers in becoming Leaders in lean Manufacturing. We manage our overhead in an effort to keep prices low and job local.

Our Automation technology comes in a wide range of services such as: Servicing and Manufactureing automation equipment. Industrial control systems PLC Controls Customizing automated equipment from your imagination.





Mix Wagon

The answer to automating your Conventional Mixing Plant:

- Post job report
- Maintain Consistent circulating pressure
- Chemical conventractions automatically adjust to the changing water rates
- Single Operator
- View Live anywhere (Real Time) Admin panel allows you to securely share your information with your customer





Compact Size fits on any Trailer 50" x 44" x 52" / Weight 1100 lbs





Easily fits in the bed of a 1500 truck

Control from Cell Phone or laptop





Mini smart unit (mn-400)

Features:

- Direct Injection
- Hydrostatic Mixer
- Compact Size 1800lbs
- Weatherproof
- Control by Cell Phone/Laptop
- 1 Year Warranty

Smart Unit:

- Post Job Reports
- Maintain Constant Circulating Pressure
- Automated Boost Pump Controls
- Chemical concentrations automatically adjust with changing water rates
- View Live anywhere in Real Time

Support:

- 5 Day on-site training
- 24-hour phone and remote login support
- Warranty parts in stock

Micro unit (mr-100)

Features:

- Automates your Conventional Mixing Plant
- Compact Size 1100lbs Fits in bed of 1500 truck
- Control by Cell Phone/Laptop
- Single Operator
- 1 Year Warranty

Smart Unit:

- Post Job Reports
- Maintain Consistent Circulating Pressure
- Chemical concentrations automatically adjust with changing water rates
- View Live anywhere in Real Time



Support:

- 5 Day on-site training
- 24-hour phone and remote login support
- Warranty parts in stock





TORQUE AND TEST

Our torque and test unit helps test and record data to ensure that the wellhead is running in the best condition, and that equipment is operating at ideal standards.

- Pressure testing
- Flowback equipment & oilfield pressure vessels
- Torquing of Frac Stacks, Well Heads, and BOP's
- 1 Year Warranty



Smart Chemical Mixing Plant

Features:

- Climate Controlled Dog House
- Direct Injection
- Hydrostatic Mixer
- Weatherproof
- Control by Cellphone/Laptop
- 1 Year Warranty

Smart Unit:

- Post Job Reports
- Maintains Consistant Circulating Pressure
- Automated Controls
- Chemical concentration automatically adjust with changing water rates
- View Live anywhere in Real Time



Support:

- 5 Day on-site training
- 24-hour phone and remote login support
- Warranty parts in stock




Introduction

Silver Fox Inc. is a wholesale supplier of quality oil & gas well completion equipment and downhole tools. Our experience and knowledge in materials, manufacturing, and downhole use of the products we supply allow us to provide our customers with the best possible products they require and to truly understand our customer's needs.





DOWNHOLE TOOLS

Anchor Catchers

Anchor catchers are devices used to anchor tubing string to the casing at a desired depth in order to pull and maintain tension in the tubing string during the pump cycle while simultaneously catching and preventing any parted pipe from falling into the well. It is used in most of the rod pumping applications where maintaining tubing tension is necessary. When set with proper tension to overcome both breathing and buckling, the oilfield anchor catcher effectively cuts operating costs incurred from excessive rod, tubing, and casing wear, which results in fewer pulling jobs. Elimination of breathing and buckling increases production by lengthening the effective stroke of the pump, thereby increasing volumetric efficiency.





Bridge Plugs

Bridge plugs are downhole tools composed primarily of slips, a plug mandrel, and a rubber sealing element. They are utilized in a subsurface manner in the lower zone of a wellbore, where the drilling bridge plug is run and set in casing. This isolates the upper zone from the lower, preventing fluids or gas from the lower zone from reaching an upper zone of the well while still allowing the upper section to be tested, cemented, stimulated, produced, or injected either permanently or temporarily within the wellbore.

Cement Retainers

Cement retainers are isolation tools set in the casing or liner that enables treatments to be applied to a lower interval while providing isolation from the annulus above. Cement retainers are typically used in cement squeeze or similar remedial treatments. A specially profiled probe, known as a stinger, is attached to the bottom of the tubing string to engage in the retainer during operation. When the cement stinger is removed, the valve assembly isolates the wellbore below the cement retainer.







Flow Control

Flow-control accessories add to the flexibility of the cased-hole completion design and perform a multitude of tasks, such as:

- Temporarily plugging off the tubing string.
- Establishing temporary communication between the tubing and the annulus.





Plug & Perf

The Plug & Perf methodology utilizes a Frac plug, which is landed below the planned perfs and is typically meant to be removed after the wells perfs are completed. The material utilized can be; steel/cast, aluminum, composite, or dissolvable. Silver Fox has a variety depending on customer preference as well as well parameters. Typically to be considered a Frac plug the ID of the Plug is purposefully left open and engineered to be as large as possible to accommodate flow back once the well is active. However Frac Bridge Plugs are also common in Plug and Perf operations, wherein the ID of the Plug is plugged off preventing flow from occurring until Plug is removed.

Production Packers

The packer forms the basis of the cased-hole completion design. The production packer is a sealing device that isolates and contains produced fluids and pressures within the wellbore to protect the casing and other formations above or below the producing zone. This is essential to the basic function of most wells..







Service Tools

Silver Fox supplies downhole tools to the oil services industry. Our tools help transform a hole in the ground into a productive well. Temporarily plugging off the tubing string.





Tubular Goods

Silver Fox offers various tools for oil and gas operations, including a wide variety of tubular goods that are required for well completion operations. We carry pump seat nipples and pump out plugs, tubing accessories, shear out safety joints, and more.





PROTECTIVE COATINGS

BorCote™

CORROSION-RESISTANT, ABRASION-RESISTANT & EROSION-RESISTANT COATING

Interesting Fact: Large-scale boronizing was first applied to drive gears for petrol-driving engines in 1979. Meanwhile, similar helical gear pairs have long since become standard fittings in vehicle and stationary engines.

On account of its outstanding abrasion resistance, boride layers are used to reduce abrasive and adhesive wear.

Boronizing is most frequently adopted for steels and nickel alloys. Attainable layer thicknesses vary according to material and application. There are many possible applications for boronizing in mechanical, equipment, and apparatus engineering.



NapGard[®]

CORROSION-RESISTANT & ABRASION-RESISTANT COATING

Nap-Gard® NG65 Internal Pipe Coating is a thermosetting epoxy powder generally recommended for use in adverse temperature and pressure service applications that come in contact with corrosive oils, gases, and waters. The abrasion-resistant coating exhibits high adhesion properties and due to its thick build provides excellent corrosion and wear protection.

This process of applying corrosion-resistant coatings ensures that the substrate (eg. Steel) is completely covered from the elements (Corrosive Oils, Gases, & or Waters) and extends the product life substantially through its superior corrosion resistance to the base material being coated.

NAP-GARD® NG65 comes in a multipurpose Red or Green







NickelCote™

CORROSION-RESISTANT & ABRASION-RESISTANT COATING

Electroless Nickel Coating (ENC) High Phos (10.5%+)

Nickel Plating or "NickelCote[™]" is a nickel alloy coating that imparts superior corrosion resistance and added wear resistance to the base material being coated. In the "As Plated" condition it is a grain-free amorphous structure with excellent barrier corrosion protection. NickelCote[™] has a morphology similar to that of metallic glass coating and because of the absence of a well-defined crystal structure, eliminates the possibility of intergranular corrosion, inherent in many crystalline coatings.

In other words: NickelCote[™] is an Electroless Nickel barrier coating, in which it protects the substrate (eg. Steel) by sealing it off from the environment. Due to its superior chemical resistance, freedom of porosity, and as-plated hardness, NickelCote[™] can provide a more effective and more economic protection than any other coating in most environments.



TefCote™

CORROSION-RESISTANT & HIGH-RELEASE COATING

Teflon Plating or "**TefCote™**" is a dry film protective coating that is applied as a thin film and cured onto the part.

This process technique ensures that the substrate (eg. Steel) is completely covered from the elements (Corrosive Oils, Gases, & or Waters) and extends the product life substantially through its superior corrosion resistance to the base material being coated.

TefCote™ has superior corrosion and chemical resistance, it provides protection for severe corrosion attack from substances such as CO2, H2S and Chlorides.







Introduction

We specialize in the design and fabrication of oilfield transportation equipment.

Whether your equipment fails at the job site, or you need to establish an ongoing maintenance program for your entire fleet, we can help keep your equipment running efficiently.

About Keystone Oilfield Fabrication

At **Keystone Oilfield Fabrication LLC**, we specialize in designing and fabricating heavy-grade oilfield transportation equipment and proppant storage solutions. Our comprehensive offerings include:

- Single and Dual T-Belts
- Large-Volume Mobile and Stationary Sand Storage Units
- Acid Tanks
- Off-Loading Conveyors
- Blenders
- Frac Units
- Cementing Equipment
- Field Bins
- Each unit is meticulously crafted to meet the specific needs of our clients, ensuring the highest level of satisfaction.





Our Commitment to Safety and Efficiency

We understand that safety and uptime are paramount in drilling operations. That's why we focus on helping our clients achieve their operational goals with efficiency and precision. Our expert team serves as a consultative resource throughout the design and manufacturing process, ensuring every piece of equipment is aligned with your project's unique requirements.

By emphasizing cost reduction in storage, inspection, and transportation, we guarantee a solution that is efficient, effective, and delivered on time. Preset timelines and on-time delivery are key aspects of every project we undertake

Global Reach with GTO Partnership

To better serve our clients in the Middle East, Southeast Asia, and Africa, Keystone Oilfield Fabrication has partnered with GTO as our exclusive agent in these regions. This collaboration allows us to offer:

Let Keystone Oilfield Fabrication LLC and GTO power your success with world-class oilfield equipment and services. Together, we're delivering excellence in oilfield solutions across the globe.







ACID TRANSPORT SOLUTIONS

Blender Unit



A blender unit in a fracking system is a truck, trailer, or skidmounted machine that mixes fracturing fluids with chemicals and proppants. It's a vital component of the system and can handle highly viscous fluids with high concentrations of proppants or lowviscous fluids with low concentrations of proppants.





BULK CEMENT PLANTS

Innovative Solutions for Bulk Cement Storage and Handling

Our Bulk Cement Plants are engineered to provide efficient, safe, and cost-effective solutions for cement storage and handling. Built to meet the highest industry standards, our plants are designed to enhance productivity, reduce downtime, and optimize operational efficiency.

Whether you're looking for a stationary or portable solution, we have the flexibility to design and deliver a system that perfectly fits your unique project requirements.







Features and Benefits

1. Customizable Design

- Stationary and Portable Options: Choose from fixed or mobile solutions, giving you the flexibility to adapt to any project or site location.
- Customer-Specific Configurations: Our plants are designed to meet your unique operational needs, ensuring efficiency and ease of use.
- Upgrade Existing Plants: Already have a plant? We can upgrade and modernize it to improve performance and meet current industry standards.

2. Built to Industry Standards

- Engineered to Meet ASME, DOT, or Custom Specifications: Our plants adhere to industry regulations, providing you with a reliable and compliant solution.
- Designed for Durability and Safety: We use high-quality materials and expert engineering to build plants that stand up to harsh conditions.

3. Power & Controls

- Various Control Configurations Available: From basic manual controls to sophisticated automated systems, we have options to match your operational requirements.
- Grid or Generator Power Options: Power your plant using on-site generators or connect to the local power grid for seamless operation.





4. Handling Options

- Vacuum or Pressure Systems: Choose the system that best meets your needs for material handling and flow control.
- Dust Collection Systems: Reduce environmental impact and ensure a clean, safe workspace with our advanced dust collection technology.
- Auxiliary Storage: Increase storage capacity with auxiliary storage units, keeping your operations running smoothly even during peak demand.

5. Comprehensive Services

- Transportation & Installation: From factory to site, we handle all logistics and on-site setup, ensuring a smooth installation process.
- Turnkey Logistics & Installation: We provide end-to-end support, from manufacturing to on-site assembly, so you can get up and running with minimal hassle.
- On-Site Maintenance & Repairs: Keep your plant operating at peak performance with on-site maintenance and repair services from our expert technicians.

Why Choose Our Bulk Cement Plants?

- Customized Solutions: Tailored to your specific site needs and operational goals.
- Industry Compliance: Built to meet ASME, DOT, and other required specifications.
- Full-Service Approach: From concept to completion, we offer design, installation, upgrades, and ongoing support.
- Flexibility: Stationary, portable, and upgrade options available to suit every project size and scope.





CEMENT TRANSPORT AND ONSITE STORAGE

Comprehensive Cement Transport and Onsite Storage Solutions

Our Cement Transport and Onsite Storage solutions are designed to offer efficient, reliable, and customized support for cement storage and handling. These systems are engineered to meet industry standards, maximize operational efficiency, and provide superior performance in challenging environments.



Features and Benefits

620 CF Twin Pod Bulk Transports:

Flexible transport capacity to support largescale cement operations.

Silo Setter Trailer:

Efficient deployment of silos on job sites.

600, 1000, 1200, and 1600 Cubic Foot Silos:

Multiple capacity options to match operational demands.

Custom Options Available

Multiple capacity options to match operational demands.

1680 CF Field Bins:

Flexible transport capacity to support largescale cement operations.

Diesel-Driven or Hydraulic-Driven Blower Options

Flexible power configurations for optimal performance.

Customizable Valve and Piping Configurations

Engineered to fit customer-specific system requirements.







Get in Touch

Our team at Keystone Oilfield Fabrication LLC is ready to design a Cement Transport and Onsite Storage solution that meets your specific operational needs. From design to installation, we provide comprehensive support every step of the way.





CEMENTING MIX AND PUMPING SOLUTIONS

Our team at Keystone Oilfield Fabrication LLC is committed to providing cutting-edge Cementing Mix and Pumping Solutions to meet the ever-evolving needs of the oil and gas industry. These systems are designed to offer efficient, reliable, and customized support for cementing operations. Our expert engineers ensure that every solution is built to meet industry standards, maximize operational efficiency, and deliver superior performance in challenging environments.



Features and Benefits

Skid or Trailer Mounted

We offer skid-mounted and trailer-mounted units, providing versatile deployment options tailored to the specific needs of your project.

Single or Double Configurations Available

Our systems come in single or double configurations, allowing for flexible setup and greater adaptability in the field.

Engineered to Customer Specifications

Each system is customized to meet specific operational requirements, ensuring optimal performance and efficiency for your unique project.

Controls and Data Acquisition of Choice

We provide advanced control systems and data acquisition technology, offering realtime insights and precise control over cementing operations.





Mix System of Choice

With customizable mix systems, we ensure precise and efficient blending for every operation, enhancing overall productivity.

Density Monitoring of Choice

Our density monitoring solutions offer real-time measurement, enabling better process control and improved operational accuracy.

Closed-Loop Hydraulic Systems

Closed-loop hydraulic systems enhance the performance of centrifugal pumps, providing increased mixing energy and higher efficiency.

Arctic Kit Installation Available

For extreme weather conditions, we offer Arctic Kit installation to ensure reliable performance even in the harshest environments.

Iron Storage

Integrated iron storage solutions keep essential components organized, secure, and ready for use, streamlining operations and reducing downtime.



Get in Touch

Our team at Keystone Oilfield Fabrication LLC is ready to design a Cementing Mix and Pumping Solution that meets your specific operational needs. From design to installation, we provide comprehensive support every step of the way.





CHEMICAL STORAGE TRUCKS

The chemical storage trucks efficiently transports chemicals for downhole fracking from the suction units to the totes. The unit consists of a dedicated hydraulic system, and the trailer comes with ten chemical totes (four with stirrers), seven chemical pumps (including a spare), and seven hose reels.

FRAC PUMP SOLUTIONS

Comprehensive Frac Pump Solutions

Our Frac Pump Solutions are designed to deliver efficient, powerful, and reliable support for hydraulic fracturing operations. These systems are engineered to maximize operational efficiency, reduce downtime, and provide superior performance in demanding environments.







Features and Benefits

Skid, Trailer, or Body Load Configurations:

Multiple setup options to fit any operational requirement.

2250-3000 BHP Configurations:

High horsepower solutions to meet diverse application needs.

DGB Options on Tier 4F Engines:

Dual-fuel capabilities to reduce emissions and enhance fuel efficiency.

Transmission, Pump, and Controls Per Customer Specifications:

Fully customizable components to align with your specific project needs.

2-4 Axle Trailer Configurations Available:

Flexible trailer configurations to optimize transportation and site adaptability.

Horizontal, Vertical, or Cube Cooling Package Options:

Custom cooling systems to maintain optimal performance in varying environments.

Contact us today to learn more about our world-class Frac Pump Solutions.





CEMENTING UNITS



The cementing unit is used to mix the cement on the fly and push the cement downhole

WATER TRUCKS

These tanks are used to transport and pump the water during fracking.





BULK PLANTS

The storage of bulk materials isn't something that is exactly the same from one company to another. At Keystone Oilfield Fabrication LLC in Rhome, Texas, we understand that bulk plants need a fabricator they can trust to meet their specific needs. We are happy to work with you as closely as necessary until we are certain we understand your specifications. We design all of our storage units according to each client's needs and take care to always reach the highest level of satisfaction.

OILFIELD PRODUCTS

Cementing Equipment

One type of equipment that every oil drilling operation needs is cementing equipment, as you need concrete to line newly dug wells, as well as to create foundations for heavy tanks and other machinery.

Oilfield Equipment

The oil and gas industry is in a state of constant innovation, and you need oilfield equipment that streamlines your production process and allows you to maximize your output and improve your bottom line. At Keystone Oilfield Fabrication LLC, we understand how important quality oilfield equipment is to the success of your entire operation. We do not rely on brand-specific support. We can customize oilfield equipment to your unique needs and even offer mobile services and repairs near our base in Rhome, Texas and far beyond.





OILFIELD SERVICES

Pressure Pumping

We have extensive experience in the oil industry, and we want to help you do what's best for your operation. Our team offers a wide variety of services designed to help you take your operation to the next level, including oilfield design, tank fabrication, and more. One of the many services we offer here is pressure pumping, and we encourage you to give us a call to learn more about what our team can do for you.

Oilfield Design

If you are planning a new drilling operation, we can also help you design the oilfield in order to maximize the efficiency and safety of your endeavor. To learn more about this service, we encourage you to reach out to our experts.

OILFIELD STORAGE

Are you looking for oilfield storage solutions? While we are located in Rhome, Texas, we can help with a wide variety of oilfield needs, both locally and further away. At Keystone Oilfield Fabrication LLC, we have the knowledge and experience needed to get you the oilfield storage you need, including storage tanks, staging areas, and more.

We understand that each oilfield has unique needs, which is why we will work closely with you to customize your oilfield storage solutions. We specialize in a variety of services involving oilfield storage, including:

- **Custom design**: We want to address your specific and unique needs, ensuring your highest satisfaction.
- **Fabrication**: Whether you need equipment like single and dual T-belts, mobile and stationary tanks, offloading conveyors, blenders, frac units, field bins, or other items, we can help create the perfect setup for your operation.

Sand Silos

As our name states, we at Keystone Oilfield Fabrication LLC specialize in fabricating the equipment you need to keep your oil operation running smoothly. We have extensive experience in the industry, and we have the right knowledge, skills, and equipment to fabricate the infrastructure that your operation needs. You can turn to our team to get a wide variety of storage and transport equipment, including acid tanks, blenders, T-belts, sand silos, and more. In this article, we will focus specifically on sand silos.

Proppant Storage

When you are involved in oil industry processes, you may need specialized equipment, storage, and other services that are hard to find. At Keystone Oilfield Fabrication LLC, we have the knowledge and experience needed to provide superior support to your production efforts in Rhome, Texas, or beyond.



GULF TECHNICAL OPERATIONS

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