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DISCLAIMER

The products described herein, including without limitation, product features, specifications, designs. Availability and pricing are subject to change by Parker Hannifin Corp and it's subsidiaries at any time without notice.

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Oil & Gas Market Development
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Cleveland, Ohio 44124

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# **Offshore Applications**

Solutions to improve your productivity

aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding



# **AVAILABILITY**

WORLDWIDE DISTRIBUTION SALES FORCE AND SERVICE

### **FLEXIBILITY**

SOLUTIONS FOR GLOBAL AND REGIONAL CHALLENGES

# **SUSTAINABILITY**

PROTECTING PEOPLE AND ENVIRONMENT

# **PROFITABILITY**

SERVING FOR GREATER VALUE TO YOU AND YOUR BUSINESS

# **RELIABILITY**

MAXIMIZING UPTIME AND OPTIMIZING PERFORMANCE





ENGINEERING YOUR SUCCESS.

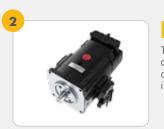






# HIGH FLOW CYLINDER MANIFOLDS

Customized manifold systems providing low dp between hoisting cylinders and compensation accumulators.



#### HYDRAULIC PUMP

The Gold Cup pump offers dependable high pressure closed circuit design with integrated features.



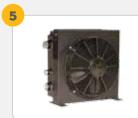
#### HYDRAULIC HOSE ASSEMBLY

High performance hose, fittings, equipment and accessories necessary to keep your equipment running at peak performance levels.



# HYDRAULIC CONDITION MONITORING

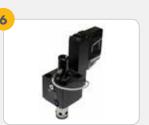
IPDZ particle detector is a zone 2 certified, cost-effective solution to real-time hydraulic/ water glycol fluid monitoring. Helping you identify problems early and avoid costly downtime.



#### HYDRAULIC COOLERS

Compact and easy to maintain, Parker's coolers are optimized for the oil and gas environment. The ULDC line is a perfect choice.





# PROPORTIONAL FLOW CONTROL VALVE

TDP and TPQ cartridge valve range offers proportional high pressure flow control up to 15,000l/min (4,000GPM)



#### HYDRAULIC OIL FILTERS

The Ecological Pressure Filter (EPF) Series provides high quality filtration as a compact solution, up to 680 lpm (180 gpm), with a minimum of waste and servicing time during element change.



# COMPLETE PIPING SOLUTIONS

Combining the best nonwelded piping system with a complete engineered piping services package, CPS offers your project incomparable assurance, efficiency and value.



# COMPOSITE ACCUMULATORS

High pressure composite accumulators, gas bottles and cylinders to lower your center of gravity.



# HIPRO BALL VALVES

Parker's 20,000 PSI Hi-Pro ball valve is designed for cold working pressure process control applications from 247 bar (3,600 PSI) up to 1379 bar (20,000 PSI) rating.



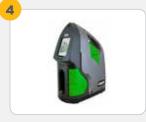
#### **B SERIES BALL VALVES**

Parker's B Series ball valves, with their rugged compact design, offer positive shut off or directional control of fluids in process instrumentation applications up to 210bar (3,000 PSI).



#### DUAL PASS WATERMAKER

Unique design providing potable & technical water from the same skid, minimizing system footprint while improving power efficiency and lowering the total cost of ownership.



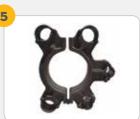
# PARTICLE COUNTER - WATER GLYCOL FLUIDS

IBS Water Glycol provides laboratory quality particle counting from bottle samples. For BOP, CMC, Riser Tensioners and all critical water glycol fluids.



#### **LSHT MOTORS**

Calzoni motors are optimal for BOP emergency operation due to robustness and low leakage.



#### RISER CLAMPS

Patented hinged design makes installation a one person job. Weight neutral reduces buoyancy load. Custom designed for riser configuration.



# HYDRAULIC CONDITION 6 MONITORING

IPDZ particle detector is a zone 2 certified, cost-effective solution to real-time hydraulic/ water glycol fluid monitoring. Helping you identify problems early and avoid costly downtime.



# TELESCOPING JOINT PACKERS

Parker's Resilon® Polyurethane extends the life of the inner packer and reduces the number of replacements needed.



# SUBSEA FLEXIBLE JOINTS

Proven, reliable designs customized to your load requirements. Cost effective construction and short lead times simplify your project planning.



# ARMORED HOSE

**RISER SHIMS** 

Compact design saves precious deck space and

protects riser joints from

damage during storage and

The Parker Blowout Preventer (BOP) Hose System with high quality components, all made in Europe, is the ideal product.



#### **BLACK EAGLE HOSE**

The Black Eagle hose family is a series of multi-spiral, wire-reinforced hoses available in lengths up to 3000m (9800ft), with working pressures from 340bar (5000 psi) to 1000bar (15000 psi).



#### NITROGEN GAS GENERATORS

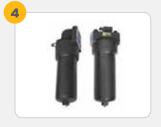
Compressed air in hydraulic accumulators can provide conditions that support combustion. Replacing with nitrogen gas removes this risk and protects against corrosion.





# OPEN CIRCUIT PISTON PUMPS

PV, P1 and P2 piston pumps are the best choise in HPU providing consistent high pressure for ring line.



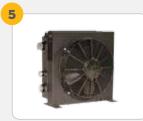
# HYDRAULIC OIL FILTERS

The Ecological Pressure Filter (EPF) Series provides compact, high filtration as a compact solution, enabling a minimum of waste and servicing time during element change.



# COMPLETE PIPING SOLUTIONS

Combining the best nonwelded piping system with a complete engineered piping services package, CPS offers your project incomparable assurance, efficiency and value.



#### **HYDRAULIC COOLERS**

Compact and easy to maintain, Parker's coolers are optimized for the oil and gas environment. The ULDC line is a perfect choice.



# ELECTRONIC CONTROLS

Parker has developed numerous rugged displays and monitors for many industries. These products communicate with other devices using industry standard protocols.



# HYDRAULIC CONDITION MONITORING

IPD particle detector is a costeffective solution to real-time hydraulic/water glycol fluid monitoring. Helping you identify problems early and avoid costly downtime.



### **CARTRIDGE VALVES**

Parker is a leader in the cartridge valve and custom manifold industry always innovating to achieve the most efficient and flexible designs.



#### SENTINEL OIL PURIFIER

The Sentinel is designed to "stand guard" over your hydraulic and lubrication systems 24/7 – increasing productivity by eliminating moisture in the oil.



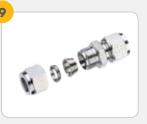
#### **RETURN LINE FILTERS**

The complete range of return line filters provides high quality filtration with a wide variety of options. Optional Static Control Media supports the reduction in the number and amount of energy released with ESD events.



#### HIPRO BALL VALVES

Parker's 20,000 PSI Hi-Pro ball valve is designed for cold working pressure process control applications from 247 bar (3,600 PSI) up to 1379 bar (20,000 PSI) rating.



# SMALL BORE CONNECTIONS & TUBE

Parker's range of small bore connections and tubing offers users a complete asset integrity solution, from vacuum to 10000 bar (150,000 PSI).



# **B SERIES BALL VALVES**

Parker's B Series ball valves, with their rugged compact design, offer positive shut off or directional control of fluids in process instrumentation applications up to 210 bar (3,000 PSI).









#### **WELDED CYLINDERS**

Welded cylinders are available in multiple stroke lengths and bore sizes and are repairable. Shown here is the RDH Heavy Duty Roundline.



# MEDIUM RESPONSE PROPORTIONAL VALVES

New D1FC valve range in combination with Compax 3F controllers provides good axis control for cylinder driven jacking systems.



# COMPLETE PIPING SOLUTIONS

Combining the best nonwelded piping system with a complete engineered piping services package, CPS offers your project incomparable assurance, efficiency and value.



#### **CONTROL VALVE GROUP**

300 - 2000 lpm (100-500 gpm) 400bar (6000 psi) sectional mobile valve for jacking systems.



#### **LSHT MOTORS**

Calzoni motors are optimal for rack and pinion jacking systems due to high starting torque and the best over all efficiency.



#### **CARTRIDGE VALVES**

Parker is a leader in the cartridge valve and custom manifold industry always innovating to achieve the most efficient and flexible designs.

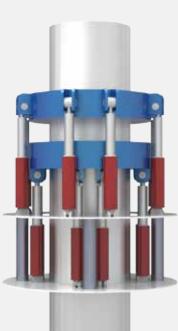


High performance hose, fittings, equipment and accessories necessary to keep your equipment running at peak performance levels.



# **SHOCK PADS**

Minimize the impact of load forces during the operation of the jacking system.

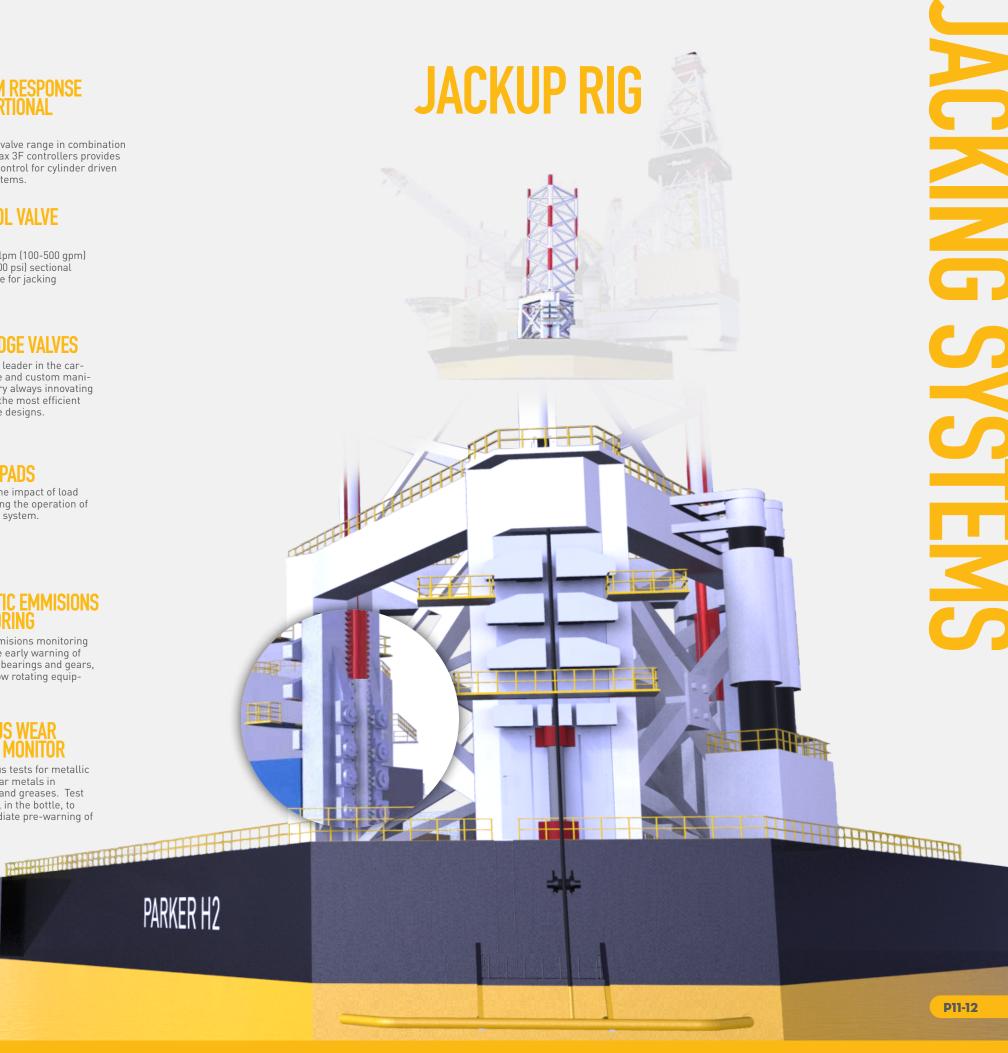


#### **ACOUSTIC EMMISIONS** MONITORING

Acoustic emisions monitoring can provide early warning of damage to bearings and gears, even on slow rotating equip-



The fdMplus tests for metallic ferrous wear metals in lubricants and greases. Test in seconds, in the bottle, to give immediate pre-warning of



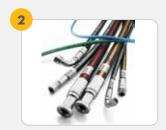
#### **WELDED CYLINDERS**

Welded cylinders are available in multiple stroke lengths and bore sizes and are repairable. Shown here is the RDH Heavy Duty Roundline.



#### MEDIUM RESPONSE PROPORTIONAL VALVES

New D1FC valve range in combination with Compax 3F controllers provides good axis control for cylinder driven pipe handling equipment.



# HYDRAULIC HOSE ASSEMBLY

High performance hose, fittings, equipment and accessories necessary to keep your equipment running at peak performance levels.



# CUSTOMIZED MANIFOLD SOLUTIONS

Parker manifold solutions increase your system functionality and reduces your start up time.



#### **CARTRIDGE VALVES**

Parker is a leader in the cartridge valve and custom manifold industry always innovating to achieve the most efficient and flexible designs.



# VARIABLE BENT AXIS

Efficient variable piston motors up to 160cc displacement.









# VARIABLE FREQUENCY PRIVES

Parker is an industry leading manufacturer of AC variable speed drives, industrial and mobile inverters, DC drives, servo drives and servo motors.



# ATEX/IECEX METALLIC WEAR DEBRIS SENSOR

Online, real-time detection of ferrous and non-ferrous wear metal debris in lubrication circuits. ATEX/IECEX Zone 1 certified and designed for top drives.



# OPEN CIRCUIT PISTON PUMPS

P1 and P2 open circuit pumps provide constant high pressure for drill floor equipment.



# MS300 MOISTURE SENSOR

Online, real-time alert of water contamination in lubricants and hydraulic fluids. Ideal for critical drill floor equipment ATEX/IECEx Zone 0 certified.







# **JACKUP RIG**





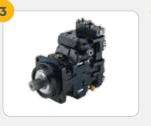
#### **COMPLETE PIPING** SOLUTIONS

Combining the best nonwelded piping system with a complete engineered piping services package, CPS offers your project incomparable assurance, efficiency and value.



#### HYDRAULIC PUMP

The Gold Cup pump offers dependable high pressure and controlled flow for closed hydraulic circuits.



PARKER H2

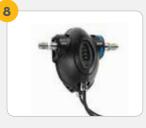
# **VARIABLE BENT AXIS**

Efficient variable piston motors up to 160cc displacement.



#### **LSHT MOTORS**

Calzoni motors are optimal for winch and slew drives due to high starting torque and the best over all efficiency.



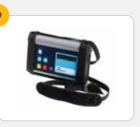
#### HYDRAULIC CONDITION **MONITORING**

IPD particle detector is a costeffective solution to real-time hydraulic/water glycol fluid monitoring. Helping you to identify problems early and avoid costly downtime.



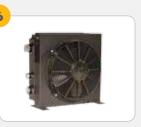
# **COMPACT MANIFOLD**

Parker is a leader in providing compact cartridge manifolds for crane emergency operations.



# MONITORING

Acoustic emisions monitoring can provide early warning of damage to bearings and gears, even on slow rotating equipment.



# HYDRAULIC COOLERS 10

Compact and easy to maintain, Parker's coolers are optimized for the oil and gas environment. The ULDC line is a perfect choice.



# **DEBRIS MONITOR**

The fdMplus tests for metallic ferrous wear metals in lubricants and greases. Test in seconds, in the bottle, to give immediate pre-warning of failure.



# **FIXED BENT AXIS**

Parker F12 series is a leading motor model in crane slew drives due to high robustness and high efficiency.



# (STATIC CONTROL)

Complete range of return line filters providing high quality filtration. Optional Static Control Media supports the reduction in the number and amount of energy released with ESD events.

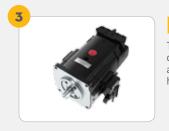






# CVG CRANE VALVE GROUP

The market leader high flow (300 - 2000 lpm/100-500 gpm, 400bar/6000 psi) sectional control valve group for crane open circuit functions.



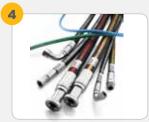
#### **HYDRAULIC PUMP**

The Gold Cup pump offers dependable high pressure and controlled flow for closed hydraulic circuits.



# COMPLETE PIPING SOLUTIONS

Combining the best non-welded piping system with a complete engineered piping services package, CPS offers your project incomparable assurance, efficiency and value.



#### HYDRAULIC HOSE ASSEMBLIES

High performance hose, fittings, equipment and accessories necessary to keep your fracking equipment running at peak performance levels. (R2, R12, R13 are commonly used).

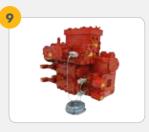






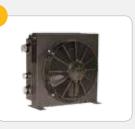
# FIXED BENT AXIS MOTORS

Parker F12 series is a leading motor model in crane slew drives due to high robustness and high efficiency.



# HIGH FLOW GATE MANIFOLDS

Parker Customer Manifold Solutions Prodiving low dp between HPU, compensation accumulators and the main winch motors.



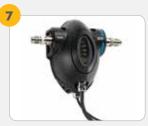
# **HYDRAULIC COOLERS**

Compact and easy to maintain, Parker's coolers are optimized for the oil and gas environment. The ULDC line is a perfect choice.



# ACOUSTIC EMMISIONS MONITORING

Acoustic emisions monitoring can provide early warning of damage to bearings and gears, even on slow rotating equipment.



# HYDRAULIC CONDITION MONITORING

IPD particle detector is a cost-effective solution to real-time hydraulic/water glycol fluid monitoring. Helping you identify problems early and avoid costly downtime.



#### HYDRAULIC OIL FILTERS

The Ecological Pressure Filter (EPF) Series provides high quality filtration as a compact solution, up to 680 lpm (180 gpm), with a minimum of waste and servicing time during element change.



#### **VANE PUMP**

The market leader vane pump feeding repleneshment oil for closed hydraulic circuit.



# RETURN LINE FILTERS (STATIC CONTROL)

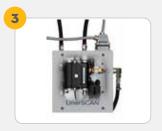
Complete range of return line filters providing high quality filtration. Optional Static Control Media supports the reduction in the number and amount of energy released with ESD events.





# HYDRAULIC CONTROL VALVES

Hydraulic valves for high speed controls of exhaust and intake valves to reduce emissions and increase efficiency.



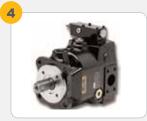
# ENGINE CONDITION MONITORING

Online and offline sensors and technologies to monitor the condition of the engine and give warnings for preventative maintenance.



# ENGINE CONTROL SYSTEMS

Custom made engine control system including the local displays and input/output units and to fulfill the environmental and classification demands.



#### **HYDRAULIC PUMPS**

Robust and reliable pumps for engine hydraulic applications using lubrication oil as hydraulic liquid.





# SAFETY FILTERS

Really fine filtration to protect the sensitive gas supply components with large filtration area to offer long lifetime.



#### **OIL PURIFIERS**

Offline unit to remove both free and dissolved water from the engine lubrication oil to ensure proper lubrication of all critical components on the engine.



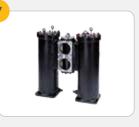
# METAL HOSES

Flexible connection between the vibrating engine and auxiliary systems for all kind of liquids and gases.



# **SENSORS**

Pressure, level, flow and temperature sensors to monitor the function of the different engine systems.



#### LUBRICATING FILTERS

Wide range of single and duplex filters with several media options to cover the engine lubricating oil flows of all engine types.



# SEALS

Best available sealing solutions by using the widest range of sealing compounds for all systems on the engines.



# DIESEL FUEL FILTER WATER SEPARATOR

When engines demand heavy duty, high capacity water separation and fuel filtration, the Turbine Series is the most complete, efficient and reliable engine protection you can install.





#### **THRUSTERSCAN**

ThrusterSCAN delivers early warning of thruster component damage, lubricant degradation and seal failures; whilst providing information to help optimize thruster usage.



#### HYDRAULIC PUMP

The Gold Cup pump offers dependable high pressure and controlled flow for closed hydraulic circuits.



# COMPLETE PIPING SOLUTIONS

Combining the best non-welded piping system with a complete engineered piping services package, CPS offers your project incomparable assurance, efficiency and value.



# **HYDRAULIC COOLERS**

Compact and easy to maintain, Parker's coolers are optimized for the oil and gas environment. The ULDC line is a perfect choice.



# HYDRAULIC CONDITION MONITORING

IPD particle detector is a costeffective solution to real-time hydraulic/water glycol fluid monitoring. Helping you to identify problems early and avoid costly downtime.



# VARIABLE FREQUENCY DRIVES

Parker is an industry leading manufacturer of AC variable speed drives, industrial and mobile inverters, DC drives, servo drives and servo motors.



# **LSHT MOTORS**

Calzoni motors are optimal for thruster slew drive due to high starting torque and the best over all efficiency.



#### EAB SERIES RESERVOIR BREATHERS

The NitroDry is designed to eliminate moisture, caused by normal seal leakage, from lubrication systems 24/7. System is suitable to run with AEL oils.

EAB series air filters provide hydraulic system designers, OEM's and end users with high performance, eco-friendly advantages reducing reservoir contamination.



# DUPLEX FILTER MANIFOLDS

Custom solutions with duplex filters and necessary control options (pitch control, clutch control, flow control etc.).



# E02 PLUS AND E02 FORM FITTINGS

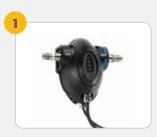
Parker fitting technologies provides for leak free connections and superior resistance to rust.



# SENTINEL OIL PURIFIER

The Sentinel is designed to "stand guard" over your hydraulic and lubrication systems 24/7 – increasing productivity by eliminating moisture in the oil.

# PARKER'S ENGINEERED SYSTEM SOLUTION Combining decades of offshore application experience, complete own offering of components and strong hydraulic system engineering team makes Parker the leading global supplier of heavy offshore and marine hydraulic power units. PARKER H4



# HYDRAULIC CONDITION 6 MONITORING

IPD particle detector is a costeffective solution to real-time hydraulic/water glycol fluid monitoring. Helping you to identify problems early and avoid costly downtime.



# HYDRAULIC ACCUMULATORS

40 liter (11 gallon) and 57 liter (15 gallon) bottom repairable bladder accumulators are two common examples of the bladder and piston accumulators that Parker manufacturers.



# COMPLETE PIPING SOLUTIONS

Combining the best non-welded piping system with a complete engineered piping services package, CPS offers your project incomparable assurance, efficiency and value.



#### **LSHT MOTORS**

Calzoni motors are optimal for high pressure winch drives due to high starting torque and the best over all efficiency.



# VARIABLE BENT AXIS MOTORS

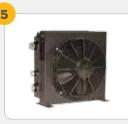
Efficient variable piston motors up to 160cc displacement.



#### **HYDRAULIC PUMP**

The Gold Cup pump offers dependable high pressure and controlled flow for closed hydraulic circuits.

10 100



#### HYDRAULI COOLERS

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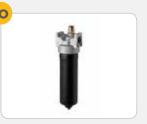
# HIGH FLOW GATE MANIFOLDS

Parker Customer Manifold Solutions Prodiving low dp between HPU, compensation accumulators and the main winch motors.



# ACOUSTIC EMMISIONS MONITORING

Acoustic emisions monitoring can provide early warning of damage to bearings and gears, even on slow rotating equipment.



#### LUBE OIL FILTERS

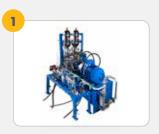
The Global Medium Pressure Filter (GMF) Series provides high quality filtration as a compact solutions (up to 600 lpm/160gpm), with a minimum of waste and servicing time needed during element change.



# FERROUS WEAR DEBRIS MONITOR

The fdMplus tests for metallic ferrous wear metals in lubricants and greases. Test in seconds, in the bottle, to give immediate prewarning of failure.





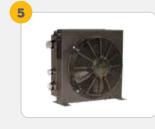
# SHARK JAW SYSTEM SOLUTION

Parker has capability to provide a complete system solutions with HPU, accumulators, manifolds and cylinders.



# COMPLETE PIPING SOLUTIONS

Combining the best nonwelded piping system with a complete engineered piping services package, CPS offers your project incomparable assurance, efficiency and value.



#### **HYDRAULIC COOLERS**

Compact and easy to maintain, Parker's coolers are optimized for the oil and gas environment. The ULDC line is a perfect choice.



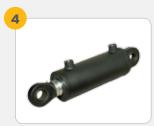
# OPEN CIRCUIT PISTON PUMPS

PV, P1 and P2 piston pumps provide consistent high pressure for drill floor machinery.



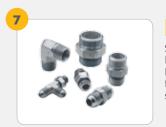
# HYDRAULIC ACCUMULATORS

40 liter (11 gallon) and 57 liter (15 gallon) bottom repairable bladder accumulators are two common examples of the bladder and piston accumulators that Parker manufacturers.



#### **WELDED CYLINDERS**

Welded cylinders are available in multiple stroke lengths and bore sizes and are repairable. Shown here is the RDH Heavy Duty Roundline.



## HYDRAULIC FITTINGS

Seal-Lok 0-Ring Face Seal Fittings combined with Parker's XTR plating provides for leak free connections and superior resistance to rust.





# SENTINEL OIL

The Sentinel is designed to "stand guard" over your hydraulic and lubrication systems 24/7 – increasing productivity by eliminating moisture in the oil.



# PORABLE PARTICLE DETECTOR

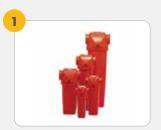
Compact, lightweight and robust. The truly portable IOS makes field analysis of hydraulic oils and hydrocarbon fuels simple, quick and easy.



# HYDRAULIC CONDITION MONITORING

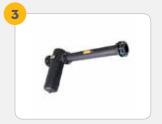
IPDR particle detector is a cost-effective solution to real-time hydraulic/water glycol fluid monitoring. Helping you identify problems early and avoid costly downtime.





# COMPRESSED AIR FILTRATION

Complete filtration solutions, ensuring the continuous supply of high quality compressed air.



# COMPRESSED AIR COOLERS

Highly efficient after-cooling treatment to ensure effective operation of compressed air systems.



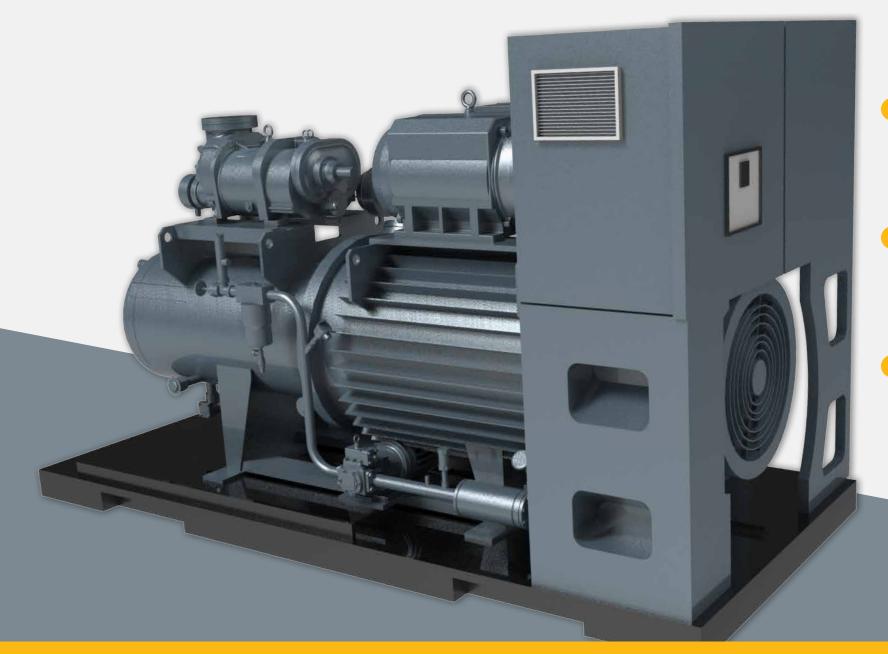
# OIL VAPOUR REMOVAL

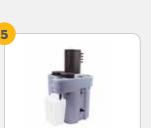
Advance oil vapour removal filters, offering a cost effective and low maintenance operation.



#### WATERMAKERS

The JAVA SEA is able to regulate and monitor system functions without the need of an operator. One touch, automatic water production.





# CONDENSATE MANAGEMENT

Oil/Water seperators enabling the release of pollution-free water into the environment.



# INLINE FUE SAMPLING

Type approved bunker samplers for 2" - 14" bunker manifolds. Sample inline, at the point of custody transfer to ensure fuel quality.



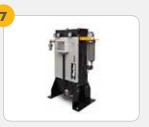
# BILGE WATER TREATMENT

Meeting IMO Resolution MEPC 107(49), Parker VMT units are advanced, three-stage systems optimizing the separation and removal of free and emulsified oils.



#### **LUBE OIL SAMPLING**

Sampling equipment packs for marine fuel & lubricant oil analysis programmes. A full service from design through to world-wide logistical support.



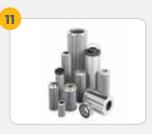
# COMPRESSED AIR DRYING

Parker Zander HDK-MT dryers are designed to treat high pressure compressed air and nitrogen gas, at pressures up to 350 bar with dewpoints down to -40°F (-40°C).



# **OIL TEST CENTRE**

The OTC provides nearlaboratory accuracy for critical lubricant parameters. Rugged, electronic, NATO approved test capabilities for high value, critical assets.



#### PAR FIT REPLACEMENT ELEMENTS

Whatever the application, there's a Par Fit solution that fits the job. With over 50,000 high quality interchange filter elements available.

# Stable emulsions are often a consequence of fluids such as corrosion inhibitors, methanol, foaming agents etc. and as such cause costly separation issues. TwinZapp's Elox (electro oxidation technology) separates these emulsions in a simple 3 step process to achieve compliant water suitable for discharge whilst simplifying logistics. The Elox unit and polishing skid can communicate wirelessly affording exceptional flexibility in rig placement. THE BURL



#### TWINZAPP

The solution to treating stable, chemical emulsions in produced water and other

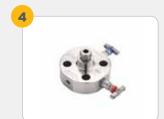


PTS helps reduce equipment and machinery downtime by increasing the speed, timing and accuracy of acquiring replacements.



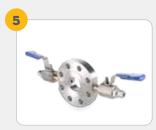
#### **PROBLOC**

Parker's ProBloc series is designed to replace conventional multiple-valve installations currently in use for interface with pressure measuring systems.



#### **MONOFLANGE**

Parker's Monoflange is a space saving valve designed to replace conventional multiplevalve installations currently in use for interface with pressure measuring systems.



#### **FLUSHING RING**

Parker offers a unique range of flushing rings in number of different styles and configurations. The flushing Ring is held in place by the through bolting, this allows for ease of installation and to positively locate.



#### WAFER STYLE VALVE

Monoflange-style construction makes the new valve lighter and more compact than conventional flange-to-flange mounted ball valves.



# **B SERIES BALL VALVES**

Parker's B Series ball valves, with their rugged compact design, offer positive shut off or directional control of fluids in process instrumentation applications up to 210bar (3000 psi).



# **SMALL BORE** 图 0年租事: **CONNECTIONS & TUBE**

Parker's range of small bore connections and tubing offers users a complete asset integrity solution, from vacuum to 10000 bar (150,000 PSI).



#### **SEALS**

Broadest range of high performance sealing systems from o-rings to shaft seal to keep platform equipment running.



# RISER TENSIONER;

Replacing air with nitrogen from a Parker gas generator removes risk of combustion, while also protecting the riser tensioning system from corrosion



# **ANALYSER PROTECTION**

Parker Balston Gas and Liquid Sample Analyzer Filters protect analyzers from sample impurities by removing solids and liquids from gases with 99.999% efficiency at 0.01



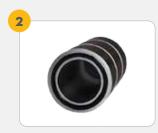
#### **DRY GAS SEALS**

Generators for inert nitrogen gas, to lubricate and pressurize dry seals designed to contain flammable gases.



#### **SERVOVALVES**

Parker's advanced Jet-Pipe® electrohydraulic servovalve technology is far less prone to contamination, receiving and passing particles as large as 500µm without malfunction.



#### **AIR INLET FILTERS**

Air intake filters providing a clean and dry air intake to ensure equipment runs with the highest possible performance and with minimum unscheduled maintenance.



Parker's coalescing, particulate & absorption filters, dryers, filter-regulator-lubricator combination units and compressed air & gas accessories ensure that clean, compressed air & gas is always available.



# STAINLESS STEEL

Parker Stratoflex CRES Hose meets or exceeds SAE AS1424 standards which ensures its suitability in turbine power plants requiring extreme temperatures up to 454°C (850°F).



#### **VARNISH REMOVAL**

Parker's SMR system maintains hydraulic and lubricating fluids in optimum condition and prevents/ removes the buildup of sludge and varnish.



#### SPIDER NOZZELS

Parker's spider nozzles use patented Macrospray® macrolaminate technology to produce an extremely fine spray with smaller droplets than conventional pressure-swirl design or impact-type nozzles.



#### **LUBE OIL FILTERS**

Parker's Microglass III filters use a graded multi-layer glasspack with unrivalled dirt holding capacity, matched to the industry standard Beta 200 efficiency rating.



#### **SEALS**

Broadest range of high performance sealing systems from o-rings to shaft seal to keep platform equipment running.



#### **FUEL TRANSFER SKID**

Parker's B Series ball valves, with their rugged compact design, offer positive shut off or directional control of fluids in process instrumentation applications up to 210bar (3000psi).



# COALESCING SYSTEMS

The TOC Series units combine the latest coalescing technology with the finest available microglass filter media to restore turbine lube oil to an exception-ally clean and dry condition.



The Gold Cup pump offers dependable high pressure and controlled flow for closed hydraulic circuits.







#### PTS

PTS helps reduce equipment and machinery downtime by increasing the speed, timing and accuracy of acquiring replacements.



#### **TURRET SEALS**

Long wearing, large dynamic sealing systems for turrets.



# SMALL BORE CONNECTIONS & TUBE

Parker's range of small bore connections and tubing offers users a complete asset integrity solution, from vacuum to 10000 bar (150,000 PSI).



# SENTINEL OIL PURIFIER

The Sentinel is designed to "stand guard" over your hydraulic and lubrication systems 24/7 – increasing productivity by eliminating moisture in the oil.



# B SERIES BALL

Parker's B Series ball valves, with their rugged compact design, offer positive shut off or directional control of fluids in process instrumentation applications up to 3,000 PSI



# HIPRO BALL VALVE

Parker's 20,000 PSI Hi-Pro ball valve is designed for cold working pressure process control applications from 247 bar (3,600 PSI) up to 1379 bar (20,000 PSI) rating.



#### CUSTOMIZED HPUs FOR TURRET TURNING

Parker has capability to provide a complete system solutions with HPU, accumulators, manifolds and actuators.



# FIXED BENT AX MOTORS

Parker F12 series is a leading motor model in rotary high speed drives due to high robustmes and high efficiency. Combined with planetary gear box, it is optimal drive for active turret turning.



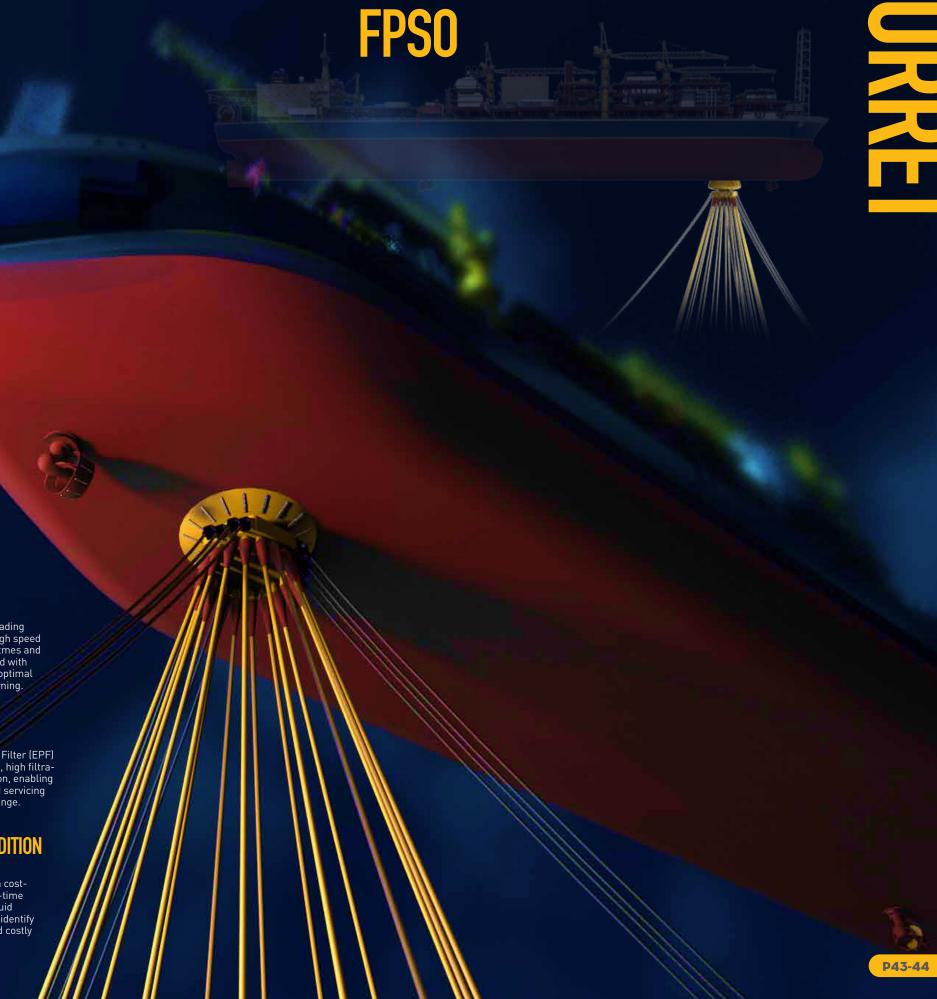
#### HYDRAULIC OIL FILTERS

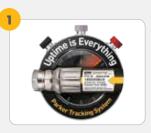
The Ecological Pressure Filter (EPF) Series provides compact, high filtration as a compact solution, enabling a minimum of waste and servicing time during element change.



# HYDRAULIC CONDITION

IPD particle detector is a costeffective solution to real-time hydraulic/water glycol fluid monitoring. Helping you identify problems early and avoid costly downtime.





PTS helps reduce equipment and machinery downtime by increasing the speed, timing and accuracy of acquiring replacements.



#### **FLARE PURGING**

Parker HiFluxx® modules use the highest permeable membranes in the world. These proprietary hollow fibres make it possible to generate nitrogen with low compressed air pressure.



#### **TWINZAPP**

The solution to treating stable, chemical emulsions in produced water and other



# **UMBILICAL AND**

Thermoplastic Umbilical and Jumper Hoses with improved flow rate are the best choice for long length hose and hose umbilicals requiring high pressure and lightweight construction.



# **ACCUMULATORS**

Parker accumulator shell material options include alloyed steel, stainless steel, aluminium, titanium and composites.



#### **HIGH PRESSURE AIR** DRYERS

Parker Zander HDK-MT dryers are designed to treat high pressure compressed air and nitrogen gas, at pressures up to 350 bar (5000 PSI) with dewpoints down to -40°C (-4°F).



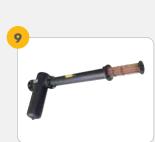
# **EXHAUST EXPANSION**

Non-metallic expansion joints form critical low pressure seals in dynamic applications such as exhaust ducts.



# **CARTRIDGE FILTER UNIT**

Skid-mounted filter unit that offers a cost effective way to clean most common oilfield fluids and fluid waste streams. Available as cartridge, bag and combination unit.



#### **COMPRESSED AIR** COOLING

Highly efficient after-cooling treatment to ensure effective operation of compressed air systems.



#### **WATERMAKERS**

The Tasman Sea is able to regulate and monitor system functions without the need of an operator. One touch, automatic water production.



#### **CHILLERS**

Chillers for the reliable supply of precision chilled cooling fluids even under extreme ambient conditions.





# **EXHAUST FILTERS**

Removes all visible oil mist and smoke from vacuum pump exhaust, even when it is saturated with oil. The high efficiency filter cartridge allows the user to recover expensive lubricating fluid.

PV, P1 and P2 piston pumps

provide consistent high

pressure for drill floor

machinery.

# COMPRESSED AIR & GAS TREATMENT

Ensure that clean, compressed air & gas is always available with Parker's coalescing, particulate & absorption filters, dryers, filter-regulator-lubricator units and range of accessories.

