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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

DISCLAIMER
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ENGINEERING YOUR SUCCESS.

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

With annual sales of **\$12.7 billion** in fiscal year 2015, Parker Hannifin is the world's leading diversified manufacturer of motion and control technologies and systems, providing precision-engineered solutions for a wide variety of mobile, industrial and aerospace markets. The company employs approximately **57,500 people in 50 countries** around the world. Parker has increased its annual dividends paid to shareholders for 59 consecutive fiscal years, among the top five longest-running dividend-increase records in the S&P 500 index.

For more information, visit the company's website at www.parker.com or its investor information website at www.phstock.com.



ENGINEERING YOUR SUCCESS.





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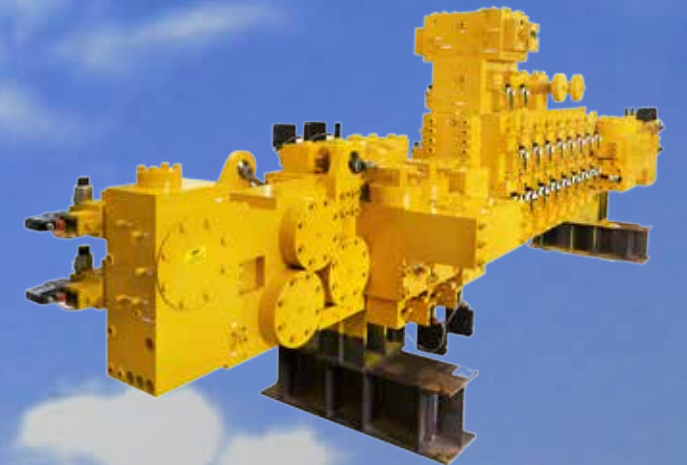
06 FPSO **P42**

01

DRILLSHIP

THE WORLD LARGEST HYDRAULIC GATE MANIFOLD

Custom 21 000kg (46,000 pounds) hydraulic gate manifold was built to control 5MW hydraulic power in a drilling rig hydraulic hoisting system function. This monster was engineered and produced by Parker Hannifin Manifold Systems Business unit and it is assembled in the HPU room of one of the latest new build Semi Submersible Rigs.



DRILLSHIP



1



HIGH FLOW CYLINDER MANIFOLDS

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

2



HYDRAULIC PUMP

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

3



HYDRAULIC HOSE ASSEMBLY

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

4



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.

5



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.

6



PROPORTIONAL FLOW CONTROL VALVE

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

7



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.

8



COMPOSITE ACCUMULATORS

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

9



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.

10



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.

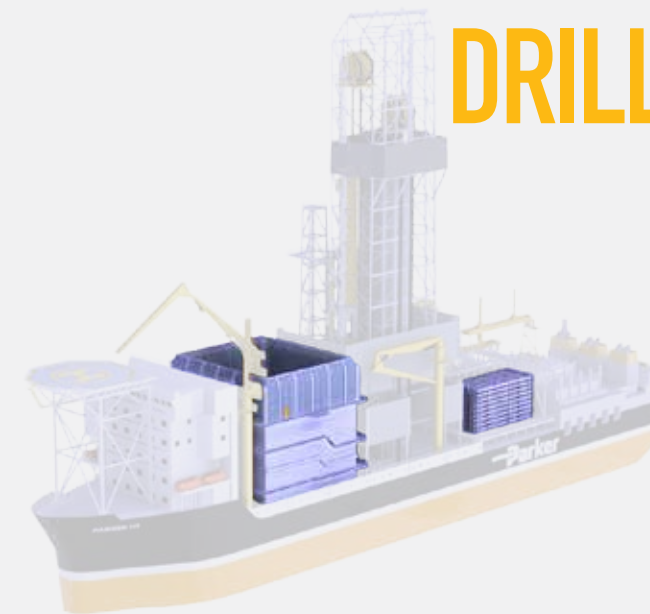
11



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).

DRILLSHIP



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.



LSHT MOTORS

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



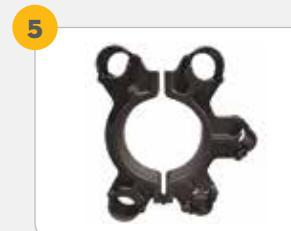
HYDRAULIC CONDITION MONITORING

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.



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.



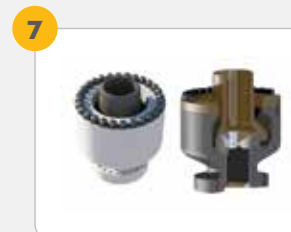
RISER CLAMPS

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



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.



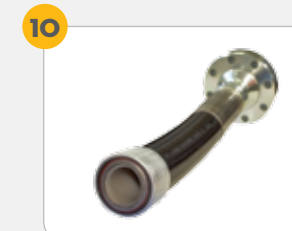
RISER SHIMS

Compact design saves precious deck space and protects riser joints from damage during storage and running.



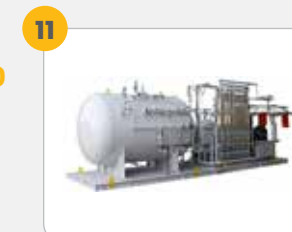
ARMORED HOSE ASSEMBLIES FOR BOP

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



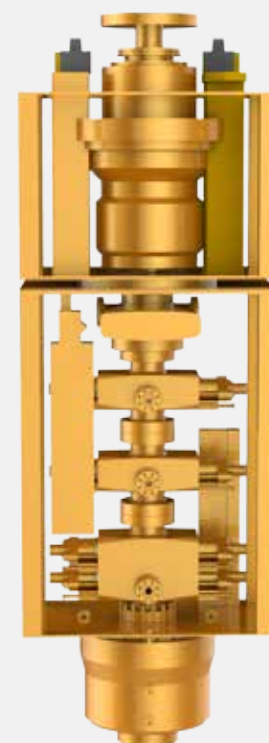
BLACK EAGLE HOSE

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.



Parker

DRILLSHIP



1



OPEN CIRCUIT PISTON PUMPS

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

2



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.

3



ELECTRONIC CONTROLS

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

4



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.

5



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.

6



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.

7



CARTRIDGE VALVES

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

8



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.

9



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).

10



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.

11



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.

12



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).



02 JACK UP RIG



ATEX/IECEx METALLIC WEAR DEBRIS SENSOR

The MWDS provides unbeatable real-time detection performance for both ferrous and non-ferrous metal debris in lubrication circuits, maximizing pre-warning time before irreversible damage occurs. ATEX/IECEx Zone 1 certified and is designed to meet top drive operational requirements.

PARKER H2

JACKUP RIG



1 WELDED CYLINDERS

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



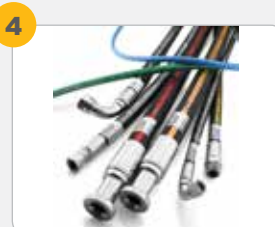
2 COMPLETE PIPING SOLUTIONS

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



3 LSHT MOTORS

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



4 HYDRAULIC HOSE ASSEMBLY

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



5 MEDIUM RESPONSE PROPORTIONAL VALVES

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



6 CONTROL VALVE GROUP

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



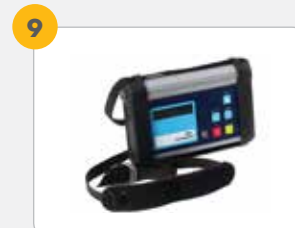
7 CARTRIDGE VALVES

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



8 SHOCK PADS

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



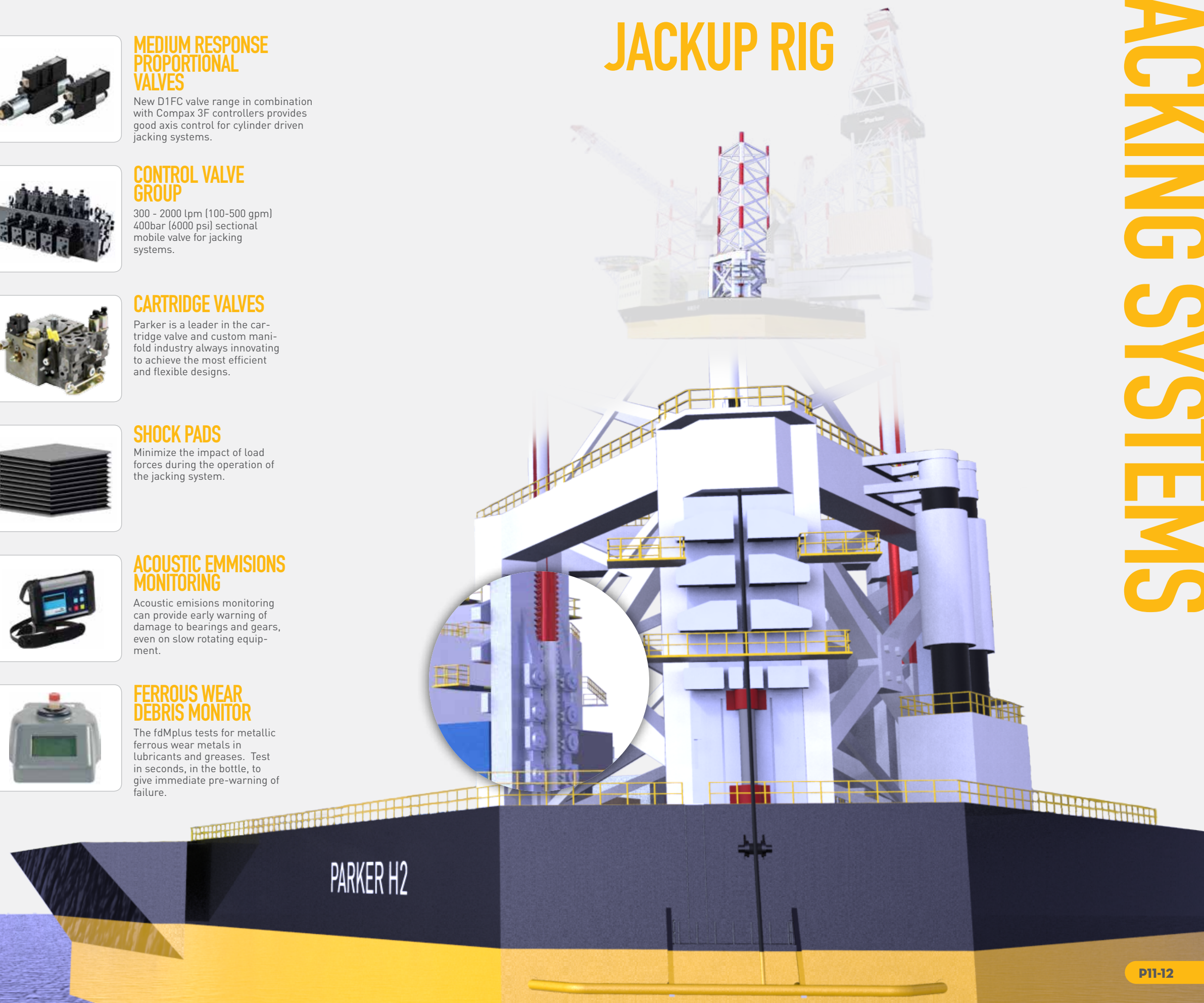
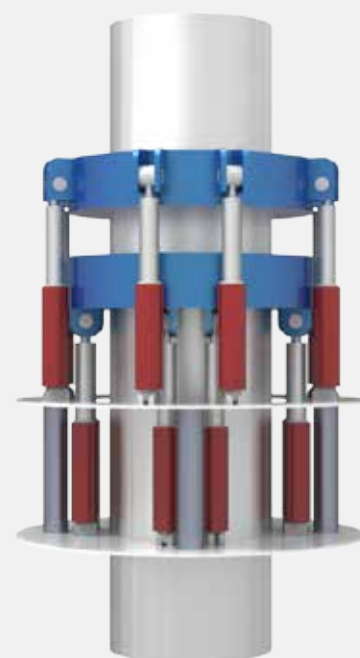
9 ACOUSTIC EMISSIONS MONITORING

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

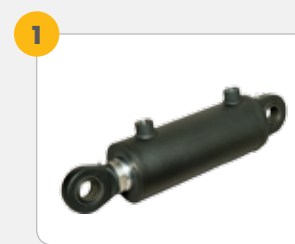


10 FERROUS WEAR DEBRIS MONITOR

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



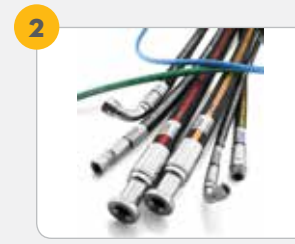
JACKUP RIG



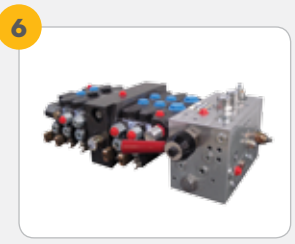
1 WELDED CYLINDERS
Welded cylinders are available in multiple stroke lengths and bore sizes and are repairable. Shown here is the RDH Heavy Duty Roundline.



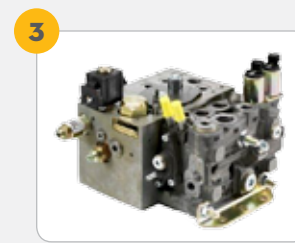
5 MEDIUM RESPONSE PROPORTIONAL VALVES
New D1FC valve range in combination with Compax 3F controllers provides good axis control for cylinder driven pipe handling equipment.



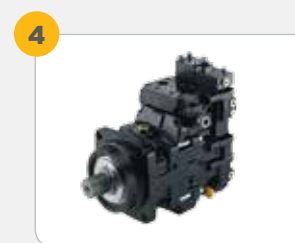
2 HYDRAULIC HOSE ASSEMBLY
High performance hose, fittings, equipment and accessories necessary to keep your equipment running at peak performance levels.



6 CUSTOMIZED MANIFOLD SOLUTIONS
Parker manifold solutions increase your system functionality and reduces your start up time.



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



4 VARIABLE BENT AXIS MOTORS
Efficient variable piston motors up to 160cc displacement.



7 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.



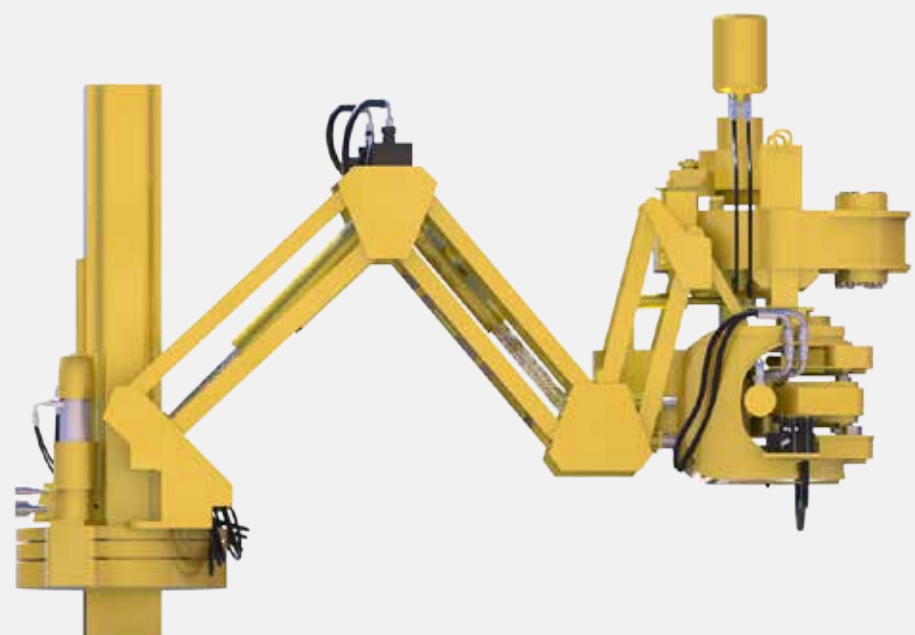
9 ATEX/IECEx METALLIC WEAR DEBRIS SENSOR
Online, real-time detection of ferrous and non-ferrous wear metal debris in lubrication circuits. ATEX/IECEx Zone 1 certified and designed for top drives.



8 OPEN CIRCUIT PISTON PUMPS
P1 and P2 open circuit pumps provide constant high pressure for drill floor equipment.



10 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.





1



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.

2



HYDRAULIC PUMP

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

3



VARIABLE BENT AXIS MOTORS

Efficient variable piston motors up to 160cc displacement.

JACKUP RIG



4



LSHT MOTORS

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

5



COMPACT MANIFOLD SOLUTIONS

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

6



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.

7



FIXED BENT AXIS MOTORS

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

8



HYDRAULIC CONDITION MONITORING

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

9



ACOUSTIC EMISSIONS MONITORING

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

10



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 pre-warning of failure.

11



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.

03

CRANE VESSEL

PARKER'S COMPLETE PIPING SOLUTIONS

Combining the best non-welded piping system with a complete engineered services, CPS offers your project assurance, efficiency and value. CPS centers feature Parker's Parflange F37 technology supported by engineering consultation, design, fabrication and installation.



CRANE VESSEL



1 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.



2 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.



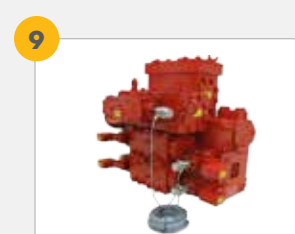
3 HYDRAULIC PUMP
The Gold Cup pump offers dependable high pressure and controlled flow for closed hydraulic circuits.



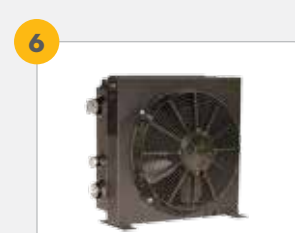
4 HYDRAULIC HOSE ASSEMBLIES
High performance hose, fittings, equipment and accessories necessary to keep your fracking equipment running at peak performance levels. (R2, R12, R13 are commonly used).



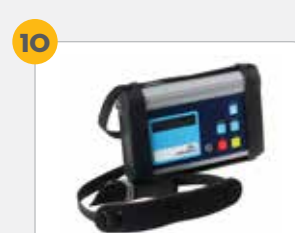
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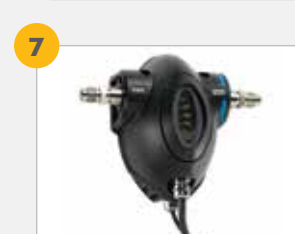
9 HIGH FLOW GATE MANIFOLDS
Parker Customer Manifold Solutions Providing low dp between HPU, compensation accumulators and the main winch motors.



6 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.



10 ACOUSTIC EMISSIONS MONITORING
Acoustic emissions monitoring can provide early warning of damage to bearings and gears, even on slow rotating equipment.



7 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.



11 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.

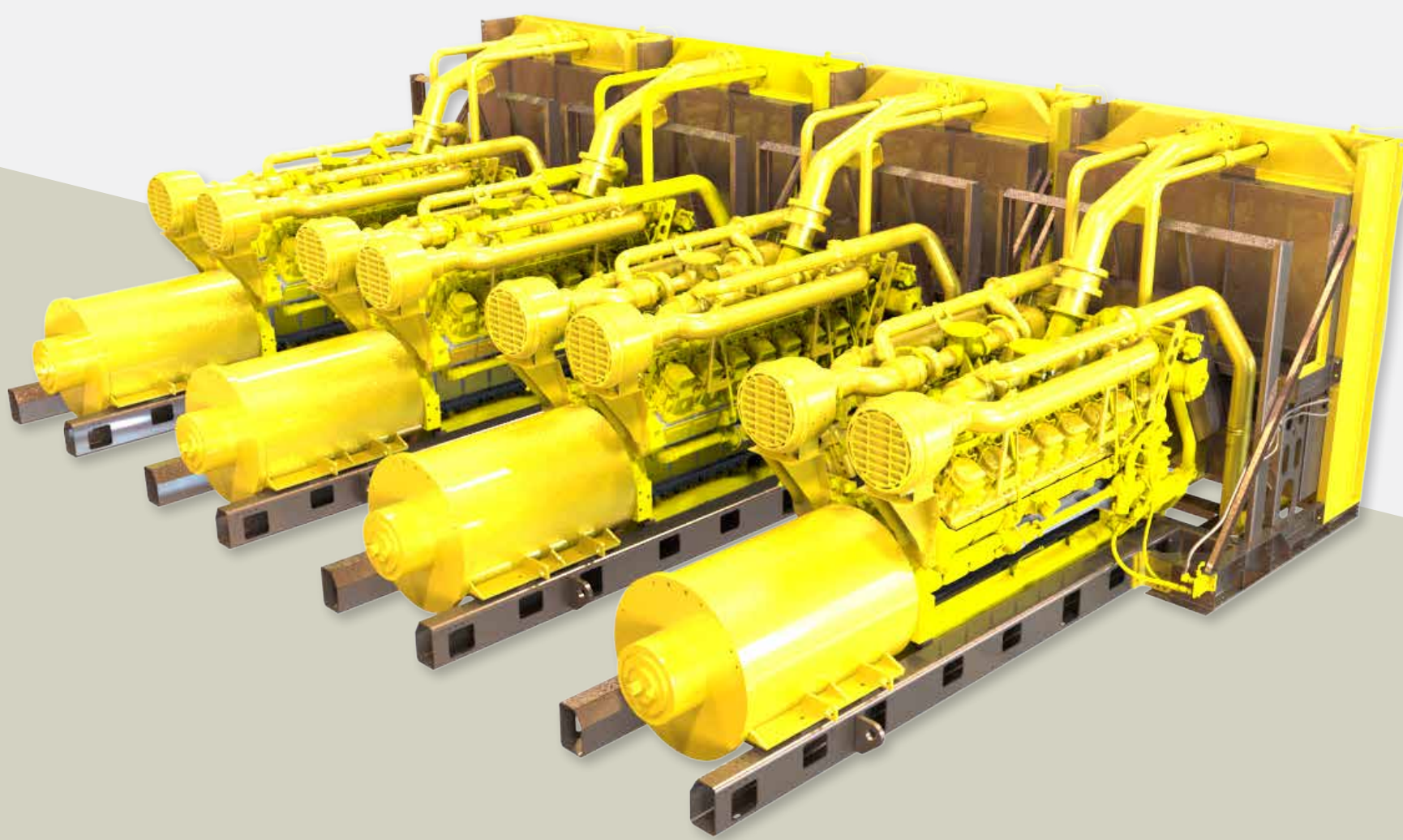


8 VANE PUMP
The market leader vane pump feeding replenishment oil for closed hydraulic circuit.



12 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.

CRANE VESSEL



1



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

3



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

2



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

4



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

5



GAS FINE AND SAFETY FILTERS
Really fine filtration to protect the sensitive gas supply components with large filtration area to offer long lifetime.

8



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.

6



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

9



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

7



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

10



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

11



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.

CRANE VESSEL



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
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HYDRAULIC CONDITION MONITORING
IPD particle detector is a cost-effective 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.



NITRODRY PURIFIER
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.



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



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.



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

AHTS VESSEL

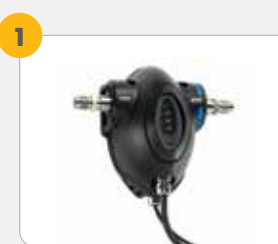
PARKER'S ENGINEERED SYSTEM SOLUTION

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.

04



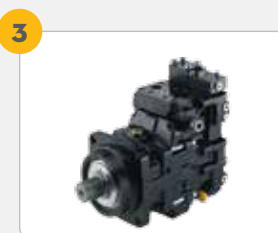
AHTS VESSEL



1 HYDRAULIC CONDITION MONITORING
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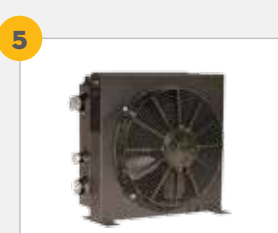
2 COMPLETE PIPING SOLUTIONS
Combining the best non-welded piping system with a complete engineered piping services package, CPS offers your project incomparable assurance, efficiency and value.



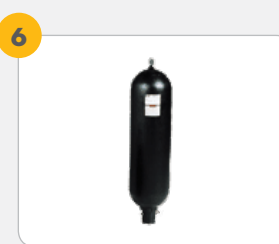
3 VARIABLE BENT AXIS MOTORS
Efficient variable piston motors up to 160cc displacement.



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



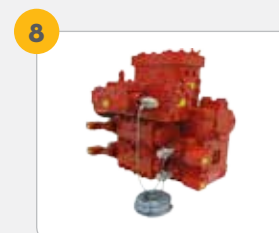
5 HYDRAULIC COOLERS
Compact and easy to maintain, Parker's coolers are optimized for the oil and gas environment. The ULDC line is a perfect choice.



6 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.



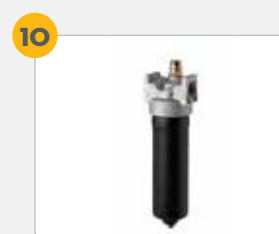
7 LSHT MOTORS
Calzoni motors are optimal for high pressure winch drives due to high starting torque and the best over all efficiency.



8 HIGH FLOW GATE MANIFOLDS
Parker Customer Manifold Solutions Providing low dp between HPU, compensation accumulators and the main winch motors.



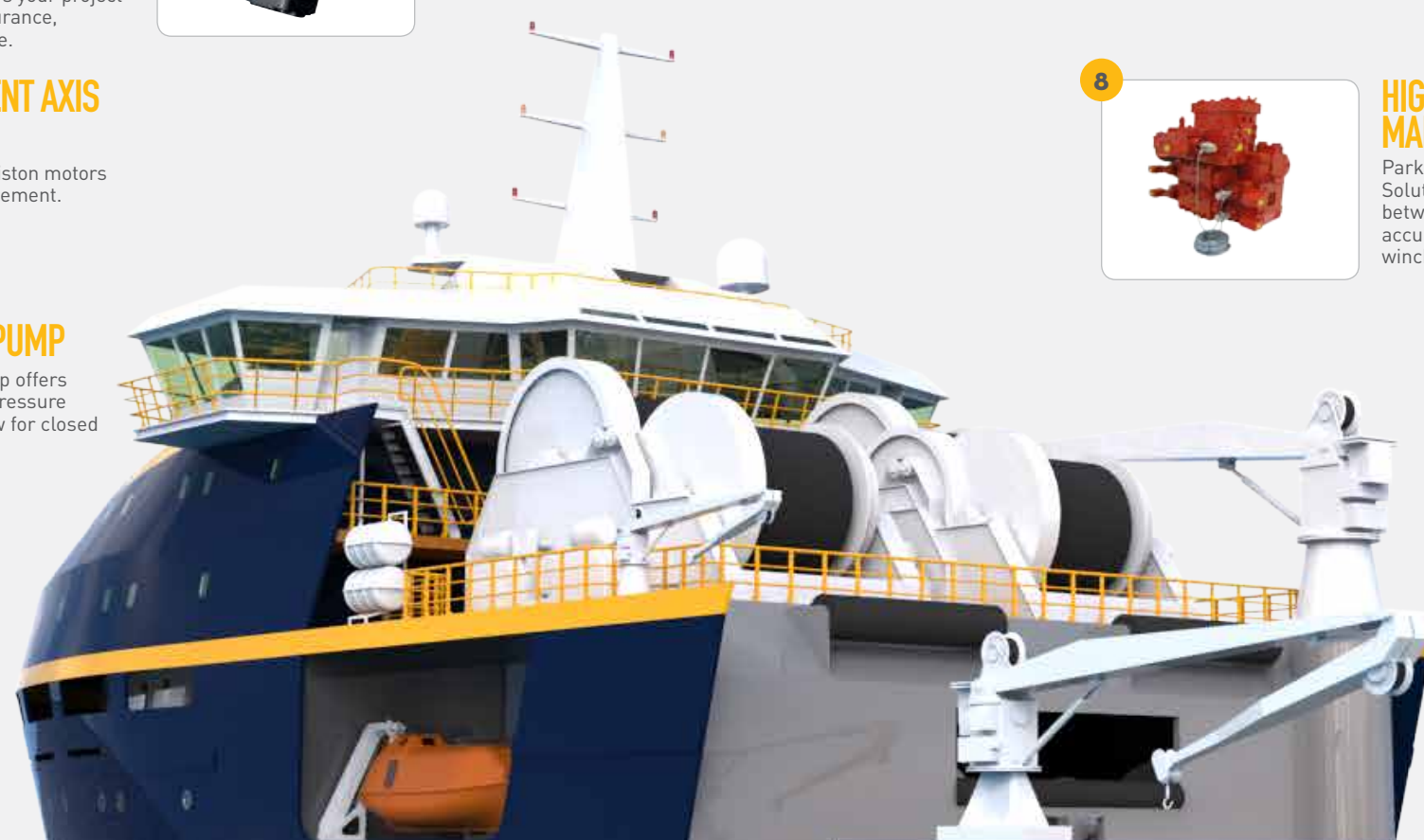
9 ACOUSTIC EMISSIONS MONITORING
Acoustic emissions monitoring can provide early warning of damage to bearings and gears, even on slow rotating equipment.



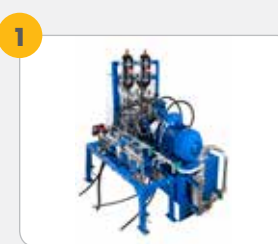
10 LUBE OIL FILTERS
The Global Medium Pressure Filter (GMF) Series provides high quality filtration as a compact solutions (up to 600 lpm/160gpm), with a minimum of waste and servicing time needed during element change.



11 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 pre-warning of failure.



AHTS VESSEL



1 SHARK JAW SYSTEM SOLUTION
Parker has capability to provide a complete system solutions with HPU, accumulators, manifolds and cylinders.



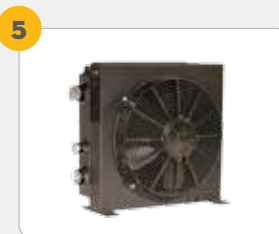
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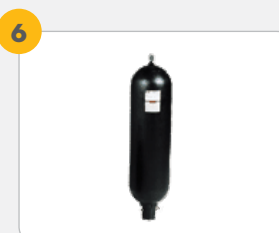
3 OPEN CIRCUIT PISTON PUMPS
PV, P1 and P2 piston pumps provide consistent high pressure for drill floor machinery.



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



5 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.



6 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 manufactures.



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



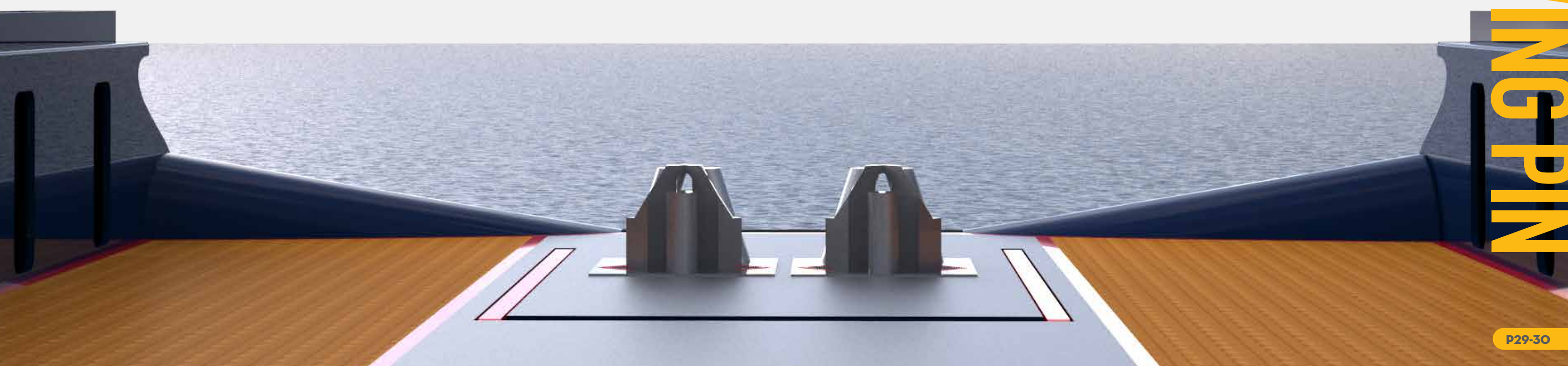
8 SENTINEL OIL PURIFIER
The Sentinel is designed to "stand guard" over your hydraulic and lubrication systems 24/7 - increasing productivity by eliminating moisture in the oil.

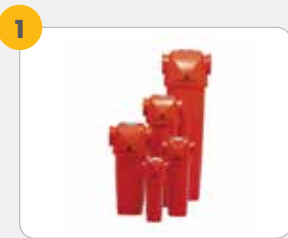


9 PORTABLE PARTICLE DETECTOR
Compact, lightweight and robust. The truly portable IOS makes field analysis of hydraulic oils and hydrocarbon fuels simple, quick and easy.

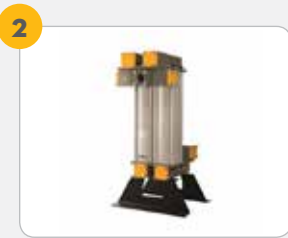


10 HYDRAULIC CONDITION MONITORING
IPDR particle detector is a cost-effective solution to real-time hydraulic/water glycol fluid monitoring. Helping you identify problems early and avoid costly downtime.

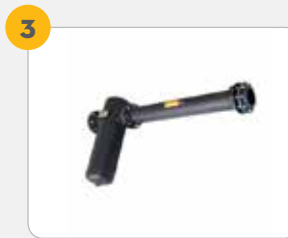




1 COMPRESSED AIR FILTRATION
Complete filtration solutions, ensuring the continuous supply of high quality compressed air.



2 OIL VAPOUR REMOVAL
Advance oil vapour removal filters, offering a cost effective and low maintenance operation.



3 COMPRESSED AIR COOLERS
Highly efficient after-cooling treatment to ensure effective operation of compressed air systems.



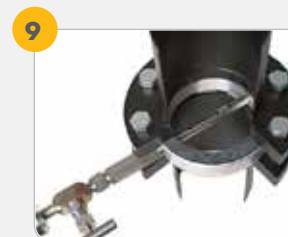
4 WATERMAKERS
The JAVA SEA is able to regulate and monitor system functions without the need of an operator. One touch, automatic water production.



AHTS VESSEL



5 CONDENSATE MANAGEMENT
Oil/Water separators enabling the release of pollution-free water into the environment.



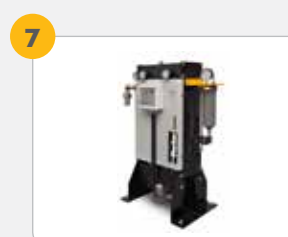
9 INLINE FUEL SAMPLING
Type approved bunker samplers for 2" - 14" bunker manifolds. Sample inline, at the point of custody transfer to ensure fuel quality.



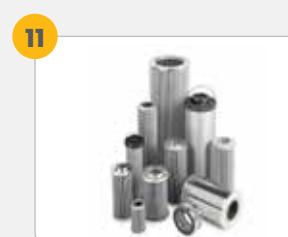
6 BILGE WATER TREATMENT
Meeting IMO Resolution MEPC 107(49), Parker VMT units are advanced, three-stage systems optimizing the separation and removal of free and emulsified oils.



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



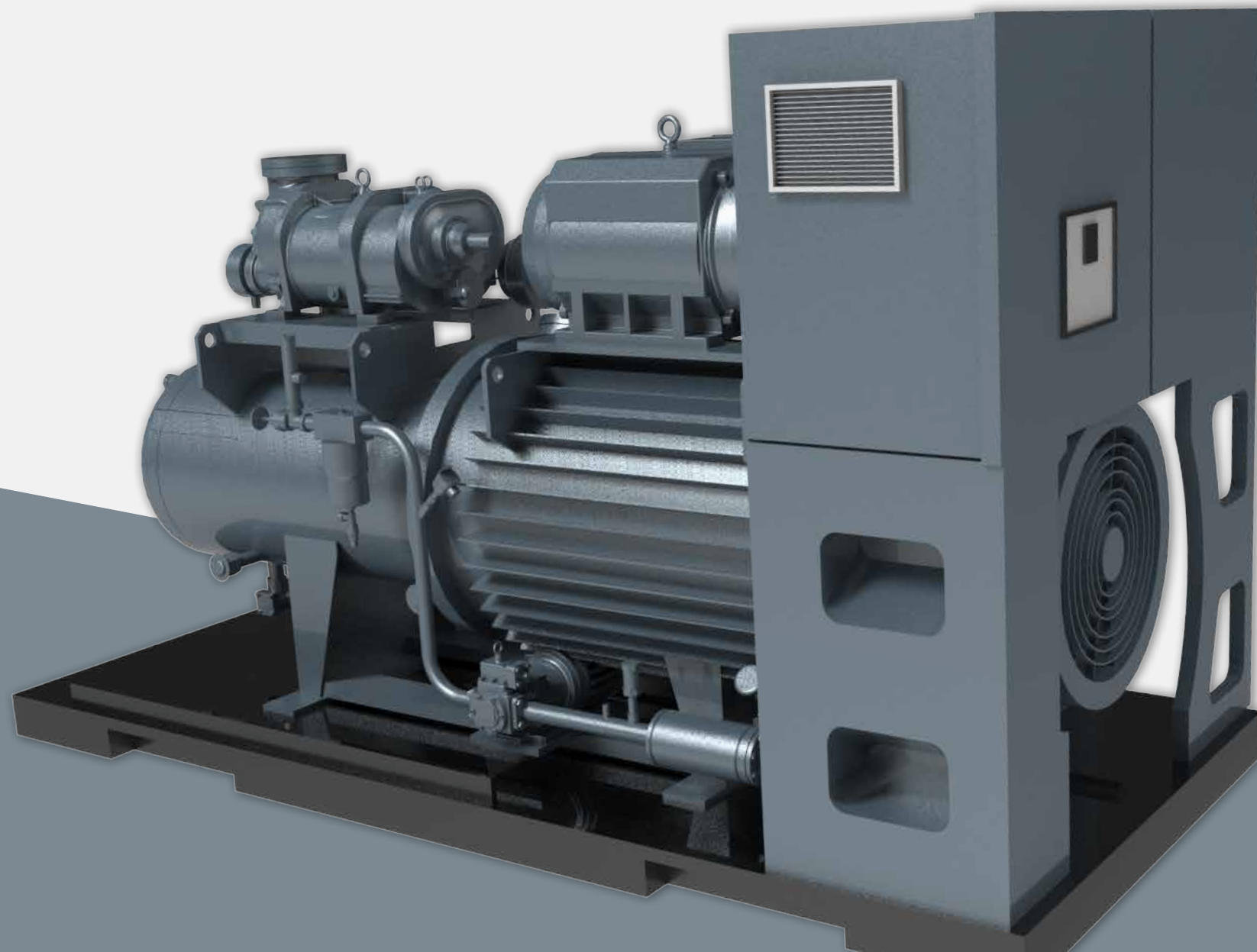
7 COMPRESSED AIR DRYING
Parker Zander HDK-MT dryers are designed to treat high pressure compressed air and nitrogen gas, at pressures up to 350 bar with dewpoints down to -40°F (-40°C).



11 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.



8 OIL TEST CENTRE
The OTC provides near-laboratory accuracy for critical lubricant parameters. Rugged, electronic, NATO approved test capabilities for high value, critical assets.



05

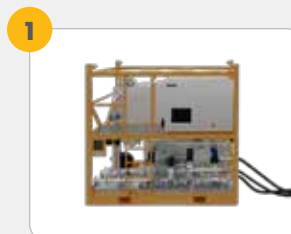
PRODUCTION PLATFORM

TWINZAPP

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.

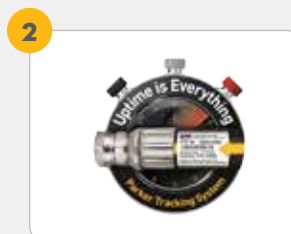


PRODUCTION PLATFORM



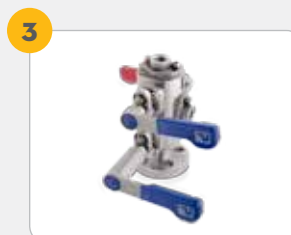
TWINZAPP

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



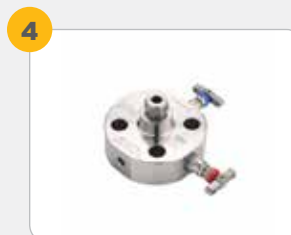
PTS

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



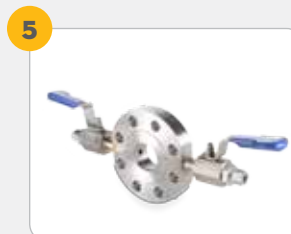
PROBLOC

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



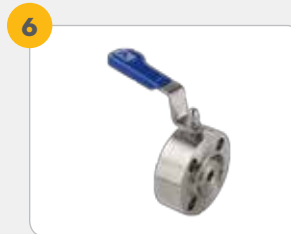
MONOFLANGE

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



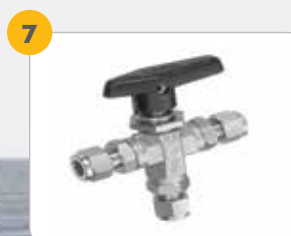
FLUSHING RING

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.



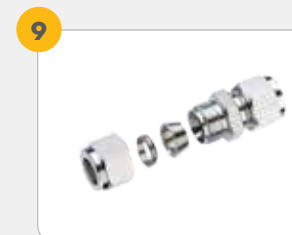
B SERIES BALL VALVES

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).



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).



SEALS

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



RISER TENSIONER; INERT GAS

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 micron or lower.

PRODUCTION PLATFORM



TWINOMATIC

Automatic self cleaning filtration units designed for high flow and continual operation in sea water intake, produced water and water injection applications. The product range covers flow rates from 50 to 4400m³/hr



DUAL VESSEL 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. Easy to operate and equipped with lever and swingaway vessel lid.



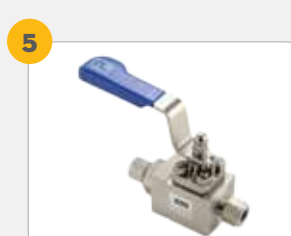
COMPLETE PIPING SOLUTIONS

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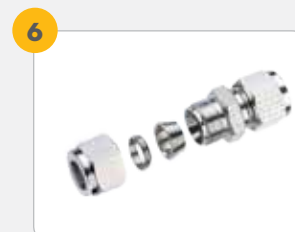
B SERIES BALL VALVES

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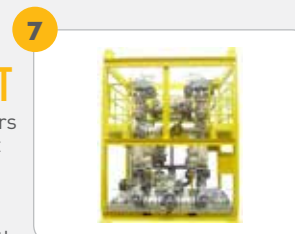
HIPRO BALL VALVES

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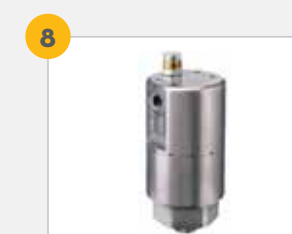
SMALL BORE CONNECTIONS & TUBE

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



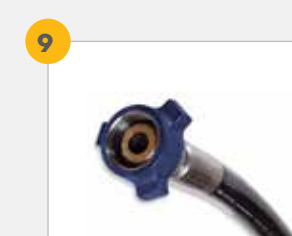
WELL HEAD GUARD FILTER

The Well Head Guard Filter unit is a last guard filter that is placed at the end of the process stream, just before the fluid is ready for use.



STAINLESS STEEL FILTERS

Combining high pressures and flow rates, with innovative features, Parker's range of stainless steel filters meet the stringent requirements of offshore Oil & Gas.



BLACK EAGLE HOSE

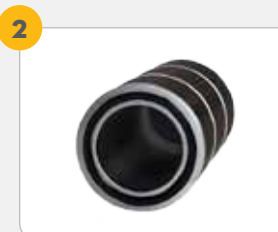
BLACK EAGLE family is a series of multi-spiral wire reinforced hoses specifically designed for oilfield applications.



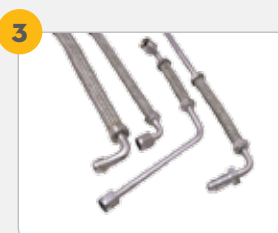
PRODUCTION PLATFORM



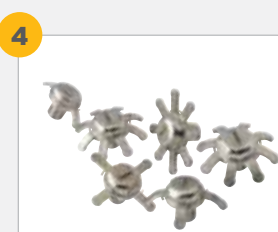
1 DRY GAS SEALS
Generators for inert nitrogen gas, to lubricate and pressurize dry seals designed to contain flammable gases.



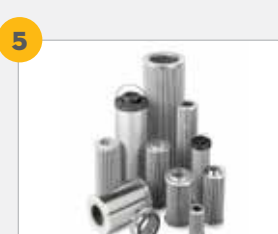
2 AIR INLET FILTERS
Air intake filters providing a clean and dry air intake to ensure equipment runs with the highest possible performance and with minimum unscheduled maintenance.



3 STAINLESS STEEL HOSE
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).



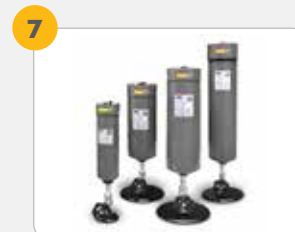
4 SPIDER NOZZELS
Parker's spider nozzles use patented Macrospray® macrolaminate technology to produce an extremely fine spray with smaller droplets than conventional pressure-swirl design or impact-type nozzles.



5 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.



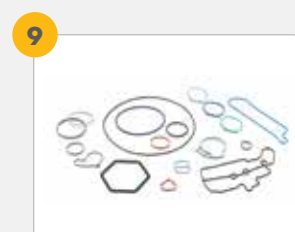
6 SERVOVALVES
Parker's advanced Jet-Pipe® electrohydraulic servovalve technology is far less prone to contamination, receiving and passing particles as large as 500µm without malfunction.



7 COMPRESSED AIR & GAS TREATMENT
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.



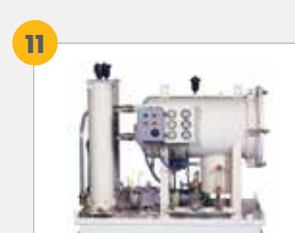
8 VARNISH REMOVAL
Parker's SMR system maintains hydraulic and lubricating fluids in optimum condition and prevents/removes the buildup of sludge and varnish.



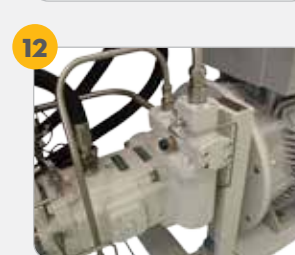
9 SEALS
Broadest range of high performance sealing systems from o-rings to shaft seal to keep platform equipment running.



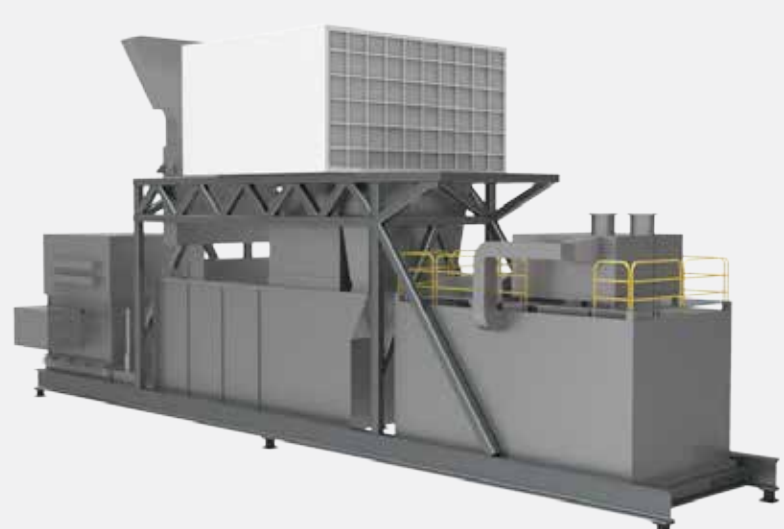
10 FUEL TRANSFER SKID
Parker's B Series ball valves, with their rugged compact design, offer positive shut off or directional control of fluids in process instrumentation applications up to 210bar (3000psi).



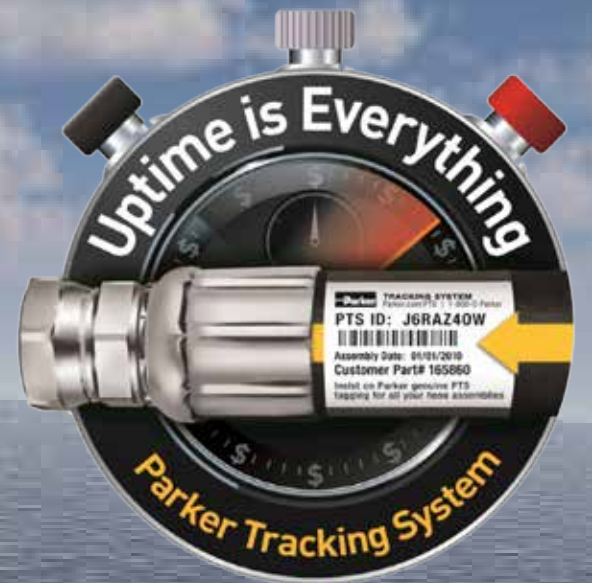
11 TURBINE OIL COALESCING SYSTEMS
The TOC Series units combine the latest coalescing technology with the finest available microglass filter media to restore turbine lube oil to an exceptionally clean and dry condition.



12 GOLD CUP TRANSMISSION PUMPS
The Gold Cup pump offers dependable high pressure and controlled flow for closed hydraulic circuits.



06

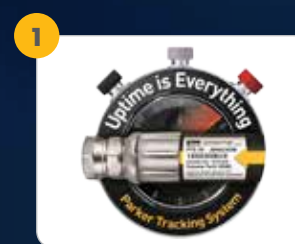


FPSO

PARKER GLOBAL SERVICES

- Parker offers global OnSite services
- Containerized Work Solutions
- Audit and Labor Services
- Engineered Solutions (piping systems)
- Asset Management
- Condition Monitoring

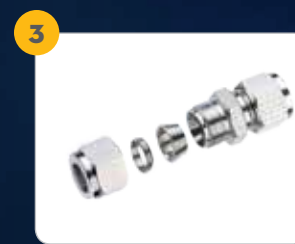
FPSO



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

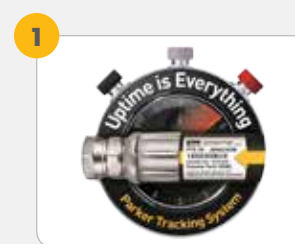
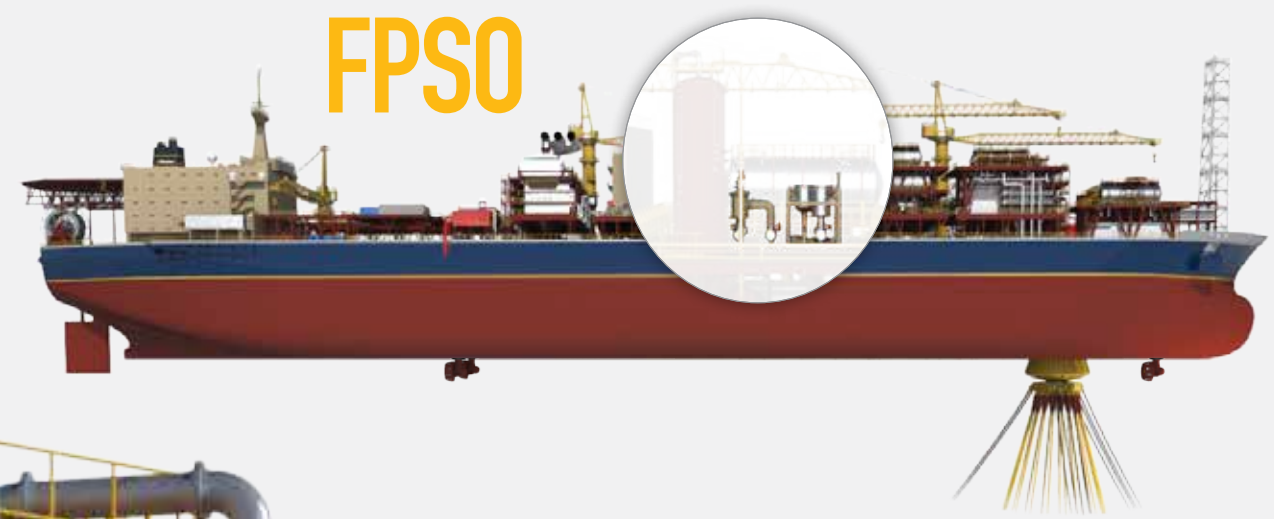


HYDRAULIC OIL FILTERS
The Ecological Pressure Filter (EPF) Series provides compact, high filtration as a compact solution, enabling a minimum of waste and servicing time during element change.

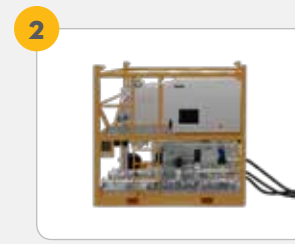


HYDRAULIC CONDITION MONITORING
IPD particle detector is a cost-effective solution to real-time hydraulic/water glycol fluid monitoring. Helping you identify problems early and avoid costly downtime.

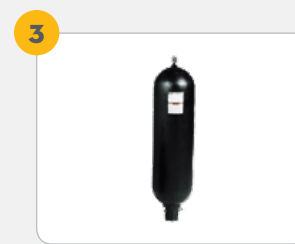
FPSO



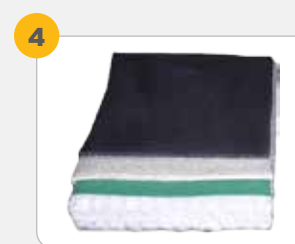
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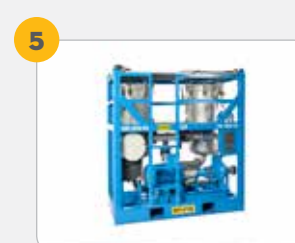
TWINZAPP
The solution to treating stable, chemical emulsions in produced water and other fluids.



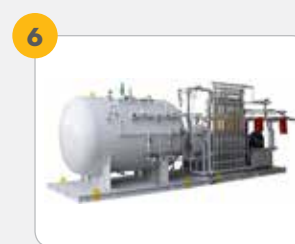
BLADDER ACCUMULATORS
Parker accumulator shell material options include alloyed steel, stainless steel, aluminium, titanium and composites.



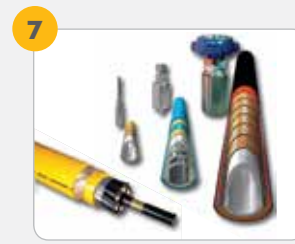
EXHAUST EXPANSION JOINTS
Non-metallic expansion joints form critical low pressure seals in dynamic applications such as exhaust ducts.



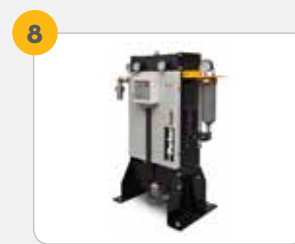
DUAL VESSEL CARTRIDGE FILTER UNIT
Skid-mounted filter unit that offers a cost effective way to clean most common oilfield fluids and fluid waste streams. Available as cartridge, bag and combination unit.



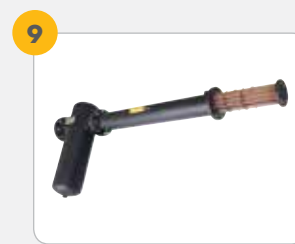
FLARE PURGING
Parker HiFluxx® modules use the highest permeable membranes in the world. These proprietary hollow fibres make it possible to generate nitrogen with low compressed air pressure.



UMBILICAL AND JUMPER HOSES
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.



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).



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.





FPSO



STORAGE & OFF-LOADING

1



CARGO TANK BLANKETING

With both PSA and membrane technology, Parker can meet all of your onboard Nitrogen generation needs.

2



HYDRAULIC POWER UNITS

Parker's innovative, high quality and efficient integrated HPU solutions to sustain converting electricity to hydraulic power to powerize several simultaneously moving actuators.

3



PARKER MARINE CYLINDERS

Global Shield rod coating offers the best corrosion resistance for harsh offshore conditions.

4



FIXED BENT AXIS MOTORS

Parker F12 series hydraulic motors provide the best power density with high robustness and high efficiency.

5



OPEN CIRCUIT PISTON PUMPS

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

6



E02 PLUS AND E02 PORM FITTINGS

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

7



LSHT MOTORS

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

8



ACOUSTIC EMISSIONS MONITORING

Acoustic emissions monitoring can provide early warning of damage to bearings and gears on pumps and ancillary equipment.

9



VACUUM PUMP 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.

10



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.

For a more complete overview of Parker oilfield offerings,
please see our interactive online marketing materials or
contact one of our distributor partners.

www.parker.com

