Parker Hannifin is focused on supporting the needs of the oil and gas industry. This brochure provides a representative overview of the many solutions that are offered; however, Parker offers much more that is not captured here. For a more complete overview of Parker oilfield offerings, please see our interactive online marketing materials or contact one of our distributor partners.

[Image of various offshore vessels and equipment]
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.
HOISTING SYSTEM

**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.

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

**2** HYDRAULIC PUMP
The Gold Cup pump offers dependable high pressure closed circuit design with integrated features.

**1** HIGH FLOW CYLINDER MANIFOLDS
Customized manifold systems providing low dp between hoisting cylinders and compensation accumulators.

**3** HYDRAULIC COOLERS
Compact and easy to maintain, Parker’s coolers are optimized for the oil and gas environment. The OLDC line is a perfect choice.

**6** PROPORTIONAL FLOW CONTROL VALVE
TDP and TPG cartridge valve range offers proportional high pressure flow control up to 15,000 l/min (4,000 gpm).

**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.

**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.

**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 210 bar (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.

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.

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.

BOP & RISERS

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

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, semi-monofilament hoses available in lengths up to 3000m (9800 ft). 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 choice in HPU providing consistent high pressure for ring line.

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.

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

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

COMPLETE PIPING SOLUTIONS
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 cost-effective 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.

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.

SMALL BORE CONNECTIONS & TUBE
Parker’s range of small bore connections and tubing offers users a complete asset integrity solution, from vacuum to 10,000 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).

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.

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.

NitroDry
The Sentinel is designed to continuously remove water from your hydraulic and lubrication systems increasing productivity by eliminating moisture in the oil.
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.
JACKING SYSTEMS

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 overall 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 EMMISSIONS 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. **JACKUP RIG**
    - Parker H2
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. **HYDRAULIC HOSE ASSEMBLY**

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

3. **MEDIUM RESPONSE PROPORTIONAL VALVES**

Medium response proportional valves New D1FC valve range in combination with Compax 3F controllers provides speed axis control for cylinder driven pipe handling equipment.

4. **CARTRIDGE VALVES**

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

5. **CUSTOMIZED MANIFOLD SOLUTIONS**

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

6. **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.

8. **OPEN CIRCUIT PISTON PUMPS**

P1 and P2 open circuit pumps provide constant high pressure for hydraulic fluid systems.

9. **ATEX/IECEx METALLIC WEAR DEBRIS SENSOR**

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

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.

**JACKUP RIG**

**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 HOSE ASSEMBLY**

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

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**CUSTOMIZED MANIFOLD SOLUTIONS**

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

**VARIABLE BENT AXIS MOTORS**

Efficient variable piston motors up to 160cc displacement.

**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.

**OPEN CIRCUIT PISTON PUMPS**

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

**ATEX/IECEx METALLIC WEAR DEBRIS SENSOR**

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

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

5

COMPACT MANIFOLD SOLUTIONS

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

5

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.

1

CPS

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

2

HYDRAULIC PUMP

3

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

3

VARIABLE BENT AXIS MOTORS

4

LSHT MOTORS
Calzoni motors are optimal for winch and slew drives due to high starting torque and the best overall efficiency.

4

LSHT MOTORS

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 COOLERS

7

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

7

FIXED BENT AXIS MOTORS

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.

8

HYDRAULIC CONDITION MONITORING

9

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

9

ACOUSTIC EMISSIONS MONITORING

10

FERROUS WEAR DEBRIS MONITOR

11

RETURN LINE FILTERS (STATIC CONTROL)

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.

11

RETURN LINE FILTERS (STATIC CONTROL)
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.
<table>
<thead>
<tr>
<th><strong>1</strong> CVG CRANE VALVE GROUP</th>
<th><strong>2</strong> COMPLETE PIPING SOLUTIONS</th>
<th><strong>3</strong> HYDRAULIC PUMP</th>
<th><strong>4</strong> HYDRAULIC HOSE ASSEMBLIES</th>
<th><strong>5</strong> FIXED BENT AXIS MOTORS</th>
<th><strong>6</strong> HYDRAULIC COOLERS</th>
<th><strong>7</strong> HYDRAULIC CONDITION MONITORING</th>
<th><strong>8</strong> VANE PUMP</th>
<th><strong>9</strong> HYDRAULIC OIL FILTERS</th>
<th><strong>10</strong> RETURN LINE FILTERS (STATIC CONTROL)</th>
</tr>
</thead>
<tbody>
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<td>The market leader high flow (300 - 5000 lpm/100-5000 gpm, 400bar/6000 psi) ported control valve group for crane open circuit functions.</td>
<td>Combining the best non-welded piping system with a complete engineered piping services package, CPS offers your project incomparable assurance, efficiency and value.</td>
<td>The Gold Cup pump offers dependable high pressure and controlled flow for closed hydraulic circuits.</td>
<td>High performance hose, fittings, equipment and accessories necessary to keep your frickling equipment running at peak performance levels. R2, R12, R13 are commonly used.</td>
<td>Parker F12 series is a leading motor model in crane slew drives due to high robustness and high efficiency.</td>
<td>Compact and easy to maintain, Parker’s coolers are optimized for the oil and gas environment. The ULDC line is a perfect choice.</td>
<td>Parker 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.</td>
<td>The market leader vane pump feeding replenishment oil for closed hydraulic circuit.</td>
<td>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.</td>
<td>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.</td>
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<td><strong>11</strong> CRANE VESSEL</td>
<td><strong>12</strong> RETURN LINE FILTERS (STATIC CONTROL)</td>
<td><strong>13</strong> HIGH FLOW GATE MANIFOLDS</td>
<td><strong>14</strong> ACOUSTIC EMISSIONS MONITORING</td>
<td><strong>15</strong> HYDRAULIC OIL FILTERS</td>
<td><strong>16</strong> 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.</td>
<td><strong>17</strong> Parker Customer Manifold Solutions providing low dp between HPU, compensation accumulators and the main winch motors.</td>
<td><strong>18</strong> Acoustic emissions monitoring can provide early warning of damage to bearings and gears, even on slow rotating equipment.</td>
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AHC CRANE

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

**FIXED BENT AXIS MOTORS**

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

**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**

Parker 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.

**VANE PUMP**

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

**ACOUSTIC EMISSIONS MONITORING**

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

**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.
MARINE DIESEL

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

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

Engine hydraulic applications using lubrication oil as hydraulic liquid.

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

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

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

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.

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

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

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.

Engine control systems including the local displays and input/output units to fulfill the environmental and classification demands.

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

Engine condition monitoring using lubrication oil as hydraulic liquid.

 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.

Gas fine and safety filters

Metal hoses

Sensors

Diesel fuel filter/water separator

Seals

Lubricating filters

Oil purifiers

Cranevessel

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.

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

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

Hydraulic control valves

Engine control systems

Hydraulic control valves

Engine condition monitoring

Hydraulic pumps

GAS FINE AND SAFETY FILTERS

METAL HOSES

LUBRICATING FILTERS

OIL PURIFIERS

SENSORS

SEALS

DIESEL FUEL FILTER/WATER SEPARATOR

Cranevessel
STEERABLE THRUSTER

1. THRUSTERSCAN
   Aims to provide early warning of thruster component damage, reduced shut-downs, and increased operational uptime.

2. COMPLETE PIPING SOLUTIONS
   Combines the best non-welded piping system with any Parker fitting technologies, providing leak-free connections and superior resistance to rust.

3. HYDRAULIC PUMP
   Durable, high pressure, energy efficient pumps for various hydraulic circuits.

4. HYDRAULIC COOLERS
   Compact and easy to maintain, Parker’s coolers are designed for high performance.

5. VARIABLE FREQUENCY DRIVES
   Parker’s VFDs are industry-leading, providing high performance, energy efficiency, and increased reliability.

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

7. NITRODYPURIFIER
   Designed to eliminate moisture from lubrication systems.

8. LSHT MOTORS
   Optimized for thruster applications, providing high starting torque and efficiency.

9. EO2 PLUS AND EO2 FORM FITTINGS
   Parker’s fitting technologies provide leak-free connections and superior resistance to rust.

10. Sentinel Oil Purifier
    Designed to eliminate moisture in the oil, improving system efficiency.

11. EAB SERIES RESERVOIR BREATHERS
    Designed to eliminate moisture from reservoirs, ensuring high performance and reliability.

12. CRANE VESSEL
    Complete piping solutions, providing leak-free connections and superior resistance to rust.
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.

AHTS VESSEL

PARKER H4
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.

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

Efficient variable piston motors up to 160cc displacement.

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

Parker’s coolers are optimized for the oil and gas environment. The ULDC line is a perfect choice.

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.

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

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.

Compact and easy to maintain, Parker’s coolers are optimized for the oil and gas environment. The ULDC line is a perfect choice.
SHARK JAW & TOWING PIN

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

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

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

HYDRAULIC ACCUMULATORS
45 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.

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.

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.

PORABLE PARTICLE DETECTOR
Compact, lightweight and robust. The truly portable P2N particle detector is a cost-effective solution to real-time hydraulic/crude glycol fluid monitoring. Helping you identify problems early and avoid costly downtime.

AHTS VESSEL

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

**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.

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

**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.

**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).

**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.

**9. IN-LINE FUEL SAMPLING**
Type approved bunker samplers for 2” – 14” bunker manifolds. Sample inline, at the point of custody transfer to ensure fuel quality.

**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.

**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.

**AHTS VESSEL**
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 offering exceptional flexibility in replacement.
**Process Control**

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

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

3. **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.

4. **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 (3000 PSI).

5. **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.

6. **Wafer Style Valve**
   Wafer style construction makes the new valve lighter and more compact than conventional flange-to-flange mounted ball valves.

7. **ProBloc**
   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 (3000 PSI).

8. **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 (3000 PSI).**

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

11. **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.

12. **Parker Balston Gas and Liquid Sample Analyser Filters**
    Protect analysers from sample impurities by removing solids and liquids from gases with 99.999% efficiency to 0.01 micron or smaller.
FLUID INJECTION

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

4
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 (3000 psi).

5
HIPPRO BALL VALVES
Parker’s 20,000 PSI Hi-Pro ball valve is designed for cold working pressure processes. Tested applications are 4147 bar (60,000 PSI) up to 1379 bar (20,000 PSI) rating.

6
SMALL BORE CONNECTIONS & TUBE
Parker’s range of small bore connections and tubing offers a complete assalt integrity solution, from vacuum to 10000 bar (150,000 PSI).

7
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.

8
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.

9
BLACK EAGLE HOSE
BLACK EAGLE family is a series of multi-spiral wire reinforced hoses specifically designed for oilfield applications.

1
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.

2
DUAL VESSEL CARTRIDGE FILTER UNIT
Seal-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 visual and automatic replace lid.

3
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.

10
DUAL VESSEL CARTRIDGE FILTER UNIT
Seal-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 visual and automatic replace lid.

11
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.

12
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.

13
BLACK EAGLE HOSE
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GAS TURBINE GENERATOR

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

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

5. 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. Parker’s advanced jetpipe® electrohydraulic servovalve technology is far less prone to contamination, receiving and passing particles as large as 50μm without malfunction.

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

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

9. Parker’s advanced Jet-Pipe® electrohydraulic servovalve technology is far less prone to contamination, receiving and passing particles as large as 50μm without malfunction.

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

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

13. Parker’s Gold Cup transmission pumps offer dependable high pressure and controlled flow for closed hydraulic circuits.

14. 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.

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PARKER GLOBAL SERVICES

- Parker offers global OnSite services
- Containerized Work Solutions
- Audit and Labor Services
- Engineered Solutions (piping systems)
- Asset Management
- Condition Monitoring
Parker's range of small bore connections and tubing offers users a complete asset integrity solution, from vacuum to 10000 bar (150,000 PSI).

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

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.

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

The 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.

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.

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.

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.

Parker’s range of small bore connections and tubing offers users a complete asset integrity solution, from vacuum to 10000 bar (150,000 PSI).
Highly efficient after-cooling treatment to ensure effective operation of compressed air systems.

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).

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.

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

PTS

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

EXHAUST EXPANSION JOINTS

Compressed air cooling treatment to ensure effective operation of compressed air systems.

Compressed air cooling

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

Watermakers

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

Chillers
STORAGE & OFFLOADING

1. CARGO TANK BLANKETING
With both PSA and membrane technology, Parker can meet all of your onboard nitrogren generation needs.

2. HYDRAULIC POWER UNITS
Parker’s innovative, high quality and efficient integrated HPU solutions to convert 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 all drive machinery.

6. EO2 PLUS AND EO2 FORM FITTINGS
Parker fitting technologies provide for leak free connections and superior resilience to rust.

7. LSHT MOTORS
Calzoni® motors are optimal for winch and slew drives due to high starting torque and the best overall efficiency.

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

FPSO
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

ESSD.Systems.RFQ@parker.com