Adding value to your drilling process.

From water intake to drilling.

Our Oil and Gas division is known for its filtration expertise within the oil and gas industry. We supply complete skid mounted systems as well as consumables to over 80 countries around the globe. We have an international team of specialists and are committed to provide first-class technical support. We understand the specific needs within the onshore and offshore applications and therefore offer a complete rental fleet next to our standard delivery program.

INTRODUCTION
Drilling a well takes millions of gallons of water. Water is the hydraulic within the fracturing process, used to release oil and gas deposits. To protect the formation from contamination the used water needs to be clean. Also disposal of waste water is a costly challenge for drillers. To protect the environment the discharged water needs to be clean. Parker Hannifin (Twin Filter) provides a complete delivery program and/or powder dosing unit are also part of our standard delivery program.

COMPLETION FLUIDS
Clean completion fluids are essential to maximise the productivity of the producing reservoir. Dirt particles in completion fluids can cause formation damage and can lower the productivity of the reservoir which results in a significant reduction of the overall productivity of the well. Clean completion fluids can only be obtained by using the correct selection of filtration equipment and consumables. The most effective way for oilfield brines filtration is Diatomaceous Earth (DE) filtration. Both our Vertical Pressure Leaf filter unit and our TwinZapp filter press in combination with a Dual Vessel Cartridge Filter have proven to be the ideal solution.

WASTE WATER
Drilling a well requires large quantities of water. Water is used for various processes including water intake, water treatment, injection of chemicals, and fluid waste handling. Water treatment is necessary to make industrial waste water safe for re-use or release into the environment. Oil, grease, heavy metal, gasoline and other petroleum by-products are the most common contaminants. We have several solutions offering low discharge levels.

Our solutions:
- TwinZapp (treats chemically emulsified water) or a Dual Vessel Cartridge Filter (TDW), used for final fluid polishing.
- Other auxiliairies like a centrifugal pump and/or powder dosing unit are also part of our standard delivery program.

Well Control

Well Control is a subsea treatment and disposal method which is used within production and work-over operations. Parker Hannifin (Twin Filter) provides a Well Head Sand Filter, designed to remove hydrocarbons, sand and other solids particles from well effluent.

The Well Head Sand Filter can be offered as a skid mounted unit, including frame, platform, lifting device (davit), valves, instruments and interconnecting piping with by-pass and/or powder dosing unit are on request. To treat the used frac fluids (flow back) Parker Hannifin (Twin Filter) provides a Dual Vessel Cartridge Filter (TDW) or a Filter Press combined with Slurry Skid or a Vertical Pressure Leaf Filter (TDW), for final fluid polishing. Other auxiliairies like a centrifugal pump and/or powder dosing unit are also part of our standard delivery program.

Our solutions:
- A Dual Vessel Cartridge Filter (TDW) or a Filter Press combined with Slurry Skid or Vertical Pressure Leaf Filter (TDW) and a TwinZapp. Other auxiliairies like a diesel driven pump and/or powder dosing unit are on request.

Completion Fluids / Workover Fluids / Gravel Pack

Clean completion fluids and times are required for effective completion and maximum oil and gas production. They contribute to overall productivity.

Our solutions:
- Filter Press combined with a Slurry Skid or a Vertical Pressure Leaf Filter (TDW), both in combination with a Dual Vessel Cartridge Filter (TDW), for final fluid polishing. Other auxiliairies like a centrifugal pump and/or powder dosing unit are also part of our standard delivery program.

Waste Water

Water injection is necessary to make industrial waste water safe for re-use or release into the environment. Oil, grease, heavy metal, gasoline and other petroleum by-products are the most common contaminants. We have several solutions offering low discharge levels.

Our solutions:
- TwinZapp (treats chemically emulsified water) or a Dual Vessel Cartridge Filter (TDW), used for final fluid polishing.
- Other auxiliairies like a centrifugal pump and/or powder dosing unit are also part of our standard delivery program.
**Products**

- Low pressure loss and high dirt holding capacity.
  - Parmax-R
  - Pleatflow
  - Slurry Skid
  - Available as single and double unit.

**Consumables**

- Filtration rating 0.5 - 50 micron.
- Connection available as type 338 and bayonet.
- Pleat geometry specifically designed for out-to-in flow.

**Equipment**

- Horizontal and vertical set-up possibility.
- Single unit: economical and easy operation.
- Double unit: possibility to operate two Filter Presses.
- Double unit: compartments operate separately.
- Different specs (high pressure, high flow etc.) on request.
- Easy to operate lever and swingaway vessel lid.
- Available as cartridge, bag and combination unit.

**OIL AND GAS DRILLING**

- Well Testing
- Frac Fluids
- Gravel Pack
- Workover Fluids / gravel pack fluids filtration.
- OFFshore proof, skid-mounted filter unit that offers a cost filter unit (TDW).

**Parker Hannifin**

Parker Hannifin represents below of Twin Filter products:

- EU - Ireland, Dublin
  - Tel: +353 (0)1 405 4050
  - pfdsales@pc.ie
- IT - Italy, Como-BR
  - Tel: +39 031 909 030
- NL - Netherlands, Gorinchem
  - Tel: +31 (0) 73 600 0000
- NO - Norway, Bergen
  - Tel: +47 55 82 02 70
- RO - Romania, Bucharest
  - Tel: +40 21 252 1382
- RU - Russia
  - Tel: +7 (495) 626 84 50
- SE - Sweden, Spanga
  - Tel: +46 70 756 2500
- UK- United Kingdom, Widnes
  - Tel: +44 1925 270 240
- USA - USA, Xenia, OH
  - Tel: +1 937 378 7800

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www.parker.com/processfiltration
www.twinfilter.com