The compact design of Hammelmann pumps is a space saving advantage for installation on offshore platforms and FPSO’s. They are increasingly specified as the pumps of choice for offshore installations.

**Round the clock operation**

- Aasgard
- Agbami
- Akter 1-6
- Allegheny
- Anna Platform
- Atlantis
- Auger
- Auger Apit
- Baton Rouge
- Black Widow
- Brazil
- Bros/Slider
- BS4
- Cabida Block
- Canyon Express
- Conger Salsa
- Demos
- Forvie
- Garden Banks
- Garnet
- Gioa Semi
- Grupo R
- Hickory
- Holstein
- Horn Mountain
- Houma
- Indep. Hub 3
- Independence
- Janice
- K2 Green Canyon
- K-Fels
- Kikeh-Gusto
- King Kong
- Kings Peak
- Kristin
- Longhom
- Mad Dog
- Magnolia
- Marco Polo
- Max-Stena-Drill
- Mobile Rig
- Morvin Asgard
- Neptune
- Nile
- Noonan
- Norse Marchand
- Panama City
- Pegasus
- Perdido
- Petrog
- Producer
- Scarebo
- Schahin
- Sevan
- S. Timbalier
- Statford B & C
- Tahli
- Talisman
- Tanzanite
- Tarantula
- TMT T
- Tweedsmuir
- Typhon
- Ursa-Princess
- Vailfonia
- Vega
- West Edrill

**Pump unit HDP 257**
- Pumping produced water
- Temperature: 95° F / 35°C
- Chlorides: 15.000 ppm
- Op. pressure 1160 psi - 80 bar
- Flow rate 200 gpm - 760 l/min

**Pump unit HDP 755**
- Pumping produced water
- Temperature: 158° F / 70°C
- Chlorides: 140.000 ppm
- Op. pressure 3050 psi - 210 bar
- Flow rate 438 gpm - 1660 l/min

**Pump unit HDP 755**
- Pumping seawater
- Temperature: 86° F / 30°C
- Chlorides: 35.000 ppm
- Op. pressure 2600 psi - 180 bar
- Flow rate 365 gpm - 1380 l/min

**Pump unit HDP 755**
- Pumping produced water
- Temperature: 149° F / 65°C
- Chlorides: 110.000 ppm H2S: 190 ppm
- Op. pressure 3050 psi - 210 bar
- Flow rate 438 gpm - 1660 l/min

**Pump unit HDP 125**
- Pumping produced water
- Temperature: 212° F / 100°C
- Chlorides: 180.000 ppm
- H2S: 6.100 ppm
- Op. pressure 1800 psi - 125 bar
- Flow rate 45 gpm - 170 l/min
**Bellows sealing**

The bellows sealing system for high pressure plunger pumps developed by Hammelmann enable reliable and safe pumping of fluids with high salt content.

The drive end of the pump is hermetically sealed off from the fluid end preventing the ingress of salt laden medium.

Hammelmann offer a wide range of high pressure pumps for the injection of aquifer water, produced water & saltwater into oil and gas fields.

The pumps offer robust construction, low space requirement and remarkable reliability.

Even the build up of crystallized salt on the surface of the bellows has no negative effect on the reliability of these components. This has been confirmed by numerous tests and in practice.

During pump operation each individual bellows fold is equally compressed. The stretching and contracting motions are within elasticity limits so that there is virtually no wear on these components.

---

**Technical data, series 5**

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Part name</th>
<th>Pos.</th>
<th>Part name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Discharge valve</td>
<td>8</td>
<td>Low pressure seal</td>
</tr>
<tr>
<td>2</td>
<td>Valve housing</td>
<td>9</td>
<td>Bellow</td>
</tr>
<tr>
<td>3</td>
<td>Suction valve</td>
<td>10</td>
<td>Crosshead</td>
</tr>
<tr>
<td>4</td>
<td>Suction chamber</td>
<td>11</td>
<td>Connection rod</td>
</tr>
<tr>
<td>5</td>
<td>Sleeve</td>
<td>12</td>
<td>Reduction gear</td>
</tr>
<tr>
<td>6</td>
<td>High pressure seal</td>
<td>13</td>
<td>Crank shaft</td>
</tr>
<tr>
<td>7</td>
<td>Plunger</td>
<td>14</td>
<td>Crank shaft</td>
</tr>
</tbody>
</table>

**Wetted parts materials**

* Right reserved to make technical modifications.
Other materials available.

**Recommendations and standards**

EU Machine directive 98/37/ EU
ATEX 94/9/EU
API 674 (with exceptions)

Other customer specified standards, i.e.
NORSOK M501
NORSOK M650
NACE MR 0175

**Performance data, series 5 (Selection)**

<table>
<thead>
<tr>
<th>Pump model</th>
<th>2500 psi</th>
<th>170 bar</th>
<th>5000 psi</th>
<th>345 bar</th>
<th>10000 psi</th>
<th>690 bar</th>
<th>Crank speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDP 75</td>
<td>D 55</td>
<td>35 gpm</td>
<td>135 l/min</td>
<td>14 gpm</td>
<td>54 l/min</td>
<td>7,7 gpm</td>
<td>29 l/min</td>
</tr>
<tr>
<td>HDP 125</td>
<td>D 70</td>
<td>59 gpm</td>
<td>225 l/min</td>
<td>30 gpm</td>
<td>114 l/min</td>
<td>14 gpm</td>
<td>54 l/min</td>
</tr>
<tr>
<td>HDP 175</td>
<td>D 70</td>
<td>85 gpm</td>
<td>324 l/min</td>
<td>43 gpm</td>
<td>166 l/min</td>
<td>20 gpm</td>
<td>78 l/min</td>
</tr>
<tr>
<td>HDP 255</td>
<td>D 70</td>
<td>144 gpm</td>
<td>543 l/min</td>
<td>73 gpm</td>
<td>277 l/min</td>
<td>34 gpm</td>
<td>131 l/min</td>
</tr>
<tr>
<td>HDP 365</td>
<td>D 120</td>
<td>222 gpm</td>
<td>843 l/min</td>
<td>98 gpm</td>
<td>374 l/min</td>
<td>54 gpm</td>
<td>208 l/min</td>
</tr>
<tr>
<td>HDP 485</td>
<td>D 120</td>
<td>317 gpm</td>
<td>1200 l/min</td>
<td>141 gpm</td>
<td>534 l/min</td>
<td>78 gpm</td>
<td>297 l/min</td>
</tr>
<tr>
<td>HDP 755</td>
<td>D 120</td>
<td>528 gpm</td>
<td>2000 l/min</td>
<td>234 gpm</td>
<td>889 l/min</td>
<td>130 gpm</td>
<td>495 l/min</td>
</tr>
</tbody>
</table>

D = Piston dia [mm]
### Features

Series 5 pumps are built to the highest standards of safety and reliability. We can supply components from a wide range of materials to suit the pumped medium.

For pumping produced water we select high grade duplex steel or nickel based alloys dependent upon the chloride and H2S content.

### Plunger speed

<table>
<thead>
<tr>
<th>HDP</th>
<th>75</th>
<th>85</th>
<th>95</th>
<th>105</th>
<th>115</th>
<th>125</th>
<th>135</th>
<th>145</th>
<th>155</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed m/sec</td>
<td>0.2</td>
<td>0.4</td>
<td>0.6</td>
<td>0.8</td>
<td>1.0</td>
<td>1.2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The series 5 pumps are conservatively rated for power with low plunger speeds ensuring limited wear of plungers and sealing elements.

### Units

Your complete pump unit can be outfitted with suction and/or discharge pulsation dampers dimensioned, manufactured, tested and certified to your specification.

### Compactor construction

Hammelmann pumps produce maximum performance from a minimal footprint which is the result of combining a compact integral speed reduction gear end with the concept of a vertical configuration.

The vertical configuration directs oscillating forces directly downwards into the base structure. Unwanted lateral oscillations as produced by horizontal pumps do not occur.

The integral speed reducer with twin helical gears arranged in a herring bone configuration ensures smooth running and even power transmission without axially loading the bearings.

A selection of gear ratios is available to allow the optimal choice of driver. The compact construction eliminates the need for an external gear box and prevents rotary oscillation. Mechanical efficiency is in excess of 95%.

### Extensive performance range

With both Triplex and Quintuplex pumps available we can supply a very extensive range of flow rates and operating pressures.

<table>
<thead>
<tr>
<th>Power ratings</th>
<th>Flow rates</th>
<th>Operating pressures</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 1000 HP</td>
<td>up to 660 gpm</td>
<td>up to 55,000 psi</td>
</tr>
<tr>
<td>up to 750 kW</td>
<td>up to 2500 l/min</td>
<td>up to 3800 bar</td>
</tr>
</tbody>
</table>

Hammelmann pump range

Water injection
Industrial pumps, series 7

Features
The 7 series pumps basically use tried and tested components from the Hammelmann standard pump range. They are extremely compact with low maintenance costs and high operational efficiency.

Pump head
Clearance volume is minimised due to the co-axially arranged pump valves. This results in higher volumetric efficiency and low pulsation. The coaxial valve arrangement eliminates alternating stress within the valve block.

Suction chamber
The process fluid enters the pump via the suction chamber. This totally encloses the high pressure components in a protective barrier and prevents emission of medium to atmosphere.

Plunger speed
Moderate plunger speeds result in low plunger and sealing element wear characteristics.

Units
Our high pressure pump units can be supplied with electric motor, a choice of controls, safety valves and suction side/discharge side pulsation dampers.

Maintenance
Pump maintenance is carried out from above. Once the pump head is removed you have complete, uncomplicated access to all high pressure components.

Technical data, series 7

Wetted parts materials *

<table>
<thead>
<tr>
<th>Wetted parts</th>
<th>Standard</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plunger</td>
<td>Ceramic</td>
<td>-</td>
</tr>
<tr>
<td>Valve housing</td>
<td>17% Chromium steel</td>
<td>22% Duplex steel</td>
</tr>
<tr>
<td>Seals</td>
<td>NBR / Polyamide</td>
<td>FKM / PEEK</td>
</tr>
<tr>
<td>Suction chamber</td>
<td>Bronze</td>
<td>18 – 10 Chromium Nickel steel</td>
</tr>
</tbody>
</table>

* Right reserved to make technical modifications.

Recommendations and standards
EU Machine directive 98/37/EU
ATEX 94/9/EU
API 674 (with exceptions)

Performance data, series 7  (Selection)

<table>
<thead>
<tr>
<th>Pump model</th>
<th>2500 psi</th>
<th>170 bar</th>
<th>5000 psi</th>
<th>345 bar</th>
<th>10000 psi</th>
<th>690 bar</th>
<th>Crank speed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>D 55</td>
<td>D 35</td>
<td>D 26</td>
<td></td>
<td></td>
<td></td>
<td>750 rpm</td>
</tr>
<tr>
<td>HDP 77</td>
<td>53 gpm</td>
<td>201 l/min</td>
<td>21 gpm</td>
<td>81 l/min</td>
<td>11,5 gpm</td>
<td>45 l/min</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D 70</td>
<td>D 50</td>
<td>D 35</td>
<td></td>
<td></td>
<td></td>
<td>530 rpm</td>
</tr>
<tr>
<td>HDP 127</td>
<td>86 gpm</td>
<td>326 l/min</td>
<td>43 gpm</td>
<td>165 l/min</td>
<td>20,5 gpm</td>
<td>78 l/min</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D 70</td>
<td>D 50</td>
<td>D 35</td>
<td></td>
<td></td>
<td></td>
<td>555 rpm</td>
</tr>
<tr>
<td>HDP 177</td>
<td>121 gpm</td>
<td>460 l/min</td>
<td>62 gpm</td>
<td>237 l/min</td>
<td>29 gpm</td>
<td>113 l/min</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D 70</td>
<td>D 50</td>
<td>D 35</td>
<td></td>
<td></td>
<td></td>
<td>555 rpm</td>
</tr>
<tr>
<td>HDP 257</td>
<td>202 gpm</td>
<td>786 l/min</td>
<td>105 gpm</td>
<td>398 l/min</td>
<td>50 gpm</td>
<td>189 l/min</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D 120</td>
<td>D 80</td>
<td>D 55</td>
<td></td>
<td></td>
<td></td>
<td>490 rpm</td>
</tr>
<tr>
<td>HDP 367</td>
<td>317 gpm</td>
<td>1200 l/min</td>
<td>142 gpm</td>
<td>538 l/min</td>
<td>65 gpm</td>
<td>249 l/min</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D 120</td>
<td>D 80</td>
<td>D 60</td>
<td></td>
<td></td>
<td></td>
<td>465 rpm</td>
</tr>
<tr>
<td>HDP 487</td>
<td>401 gpm</td>
<td>1920 l/min</td>
<td>178 gpm</td>
<td>677 l/min</td>
<td>99 gpm</td>
<td>377 l/min</td>
<td></td>
</tr>
<tr>
<td></td>
<td>D 120</td>
<td>D 80</td>
<td>D 55</td>
<td></td>
<td></td>
<td></td>
<td>465 rpm</td>
</tr>
<tr>
<td>HDP 757</td>
<td>668 gpm</td>
<td>2530 l/min</td>
<td>298 gpm</td>
<td>1128 l/min</td>
<td>138 gpm</td>
<td>522 l/min</td>
<td></td>
</tr>
</tbody>
</table>

D = Piston dia [mm]
Industrial pumps, series 7

Features
The 7 series pumps basically use tried and tested components from the Hammelmann standard pump range. They are extremely compact with low maintenance costs and high operational efficiency.

Pump head
Clearance volume is minimised due to the co-axially arranged pump valves. This results in higher volumetric efficiency and low pulsation. The coaxial valve arrangement eliminates alternating stress within the valve block.

Suction chamber
The process fluid enters the pump via the suction chamber. This totally encloses the high pressure components in a protective barrier and prevents emission of medium to atmosphere.

Plunger speed
Moderate plunger speeds result in low plunger and sealing element wear characteristics.

Technical data, series 7

Wetted parts materials *

Plunger Ceramic -
Valve housing 17% Chromium steel 92% Duplex steel
Seals NBR / Polyamide FKM / PEEK
Suction chamber Bronze 18 – 10 Chromium Nickel steel

* Right reserved to make technical modifications

Recommendations and standards
EU Machine directive 98/37/ EU ATEX 94/9/EU
API 674 (with exceptions)

Maintenance
Pump maintenance is carried out from above. Once the pump head is removed you have complete, uncomplicated access to all high pressure components.

Performance data, series 7 (Selection)

<table>
<thead>
<tr>
<th>Pump model</th>
<th>2500 psi</th>
<th>5000 psi</th>
<th>10000 psi</th>
<th>690 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDP 77</td>
<td>D 55</td>
<td>D 35</td>
<td>D 26</td>
<td>750 rpm</td>
</tr>
<tr>
<td>HDP 127</td>
<td>D 70</td>
<td>D 50</td>
<td>D 35</td>
<td>530 rpm</td>
</tr>
<tr>
<td>HDP 177</td>
<td>D 70</td>
<td>D 50</td>
<td>D 35</td>
<td>555 rpm</td>
</tr>
<tr>
<td>HDP 257</td>
<td>D 70</td>
<td>D 50</td>
<td>D 35</td>
<td>555 rpm</td>
</tr>
<tr>
<td>HDP 357</td>
<td>D 120</td>
<td>D 80</td>
<td>D 55</td>
<td>490 rpm</td>
</tr>
<tr>
<td>HDP 487</td>
<td>D 120</td>
<td>D 80</td>
<td>D 60</td>
<td>465 rpm</td>
</tr>
<tr>
<td>HDP 757</td>
<td>D 120</td>
<td>D 80</td>
<td>D 55</td>
<td>465 rpm</td>
</tr>
</tbody>
</table>

D = Piston dia [mm]
Process pumps, series 5

Features
Series 5 pumps are built to the highest standards of safety and reliability. We can supply components from a wide range of materials to suit the pumped medium.

For pumping produced water we select high grade duplex steel or nickel based alloys dependent upon the chloride and H2S content.

Plunger speed

The series 5 pumps are conservatively rated for power with low plunger speeds ensuring limited wear of plungers and sealing elements.

Units
Your complete pump unit can be outfitted with suction and/or discharge pulsation dampers dimensioned, manufactured, tested and certified to your specification.

Plunger models HDP 360, HDP 480 and HDP 750 with plunger diameters of 90 mm and above are outfitted with high flow pump heads. These were especially developed to handle very high volumes and distinguish themselves from other Hammelmann pump heads by having side mounted valve sets.

Extensive performance range
With both Triplex and Quintuplex pumps available we can supply a very extensive range of flow rates and operating pressures.

Power ratings up to 1000 HP
up to 750 kW
Flow rates up to 660 gpm
up to 2500 l/min
Operating pressures up to 55,000 psi
up to 3800 bar

Compact construction
Hammelmann pumps produce maximum performance from a minimal footprint which is the result of combining a compact integral speed reduction gear end with the concept of a vertical configuration.

The vertical configuration directs oscillating forces directly downwards into the base structure. Unwanted lateral oscillations as produced by horizontal pumps do not occur.

The integral speed reducer with twin helical gears arranged in a herring bone configuration ensures smooth running and even power transmission without axially loading the bearings.

A selection of gear ratios is available to allow the optimal choice of driver. The compact construction eliminates the need for an external gear box and prevents rotary oscillation. Mechanical efficiency is in excess of 95%.

Non return valve

To prevent salt build up on the plunger surfaces we offer a system that delivers a film of lubricant to the surfaces and at the same time maintains the effectiveness of the sealing elements and prolongs their working life. Quantity of lubricant is controlled to minimise consumption.

Lubricant pump

To prevent salt build up on the plunger surfaces we offer a system that delivers a film of lubricant to the surfaces and at the same time maintains the effectiveness of the sealing elements and prolongs their working life. Quantity of lubricant is controlled to minimise consumption.

Lubricant reservoir

This design concept enables the use of valves with very large cross section dimensions which results in low flow velocities and consequently greatly reduced wear.

The valve sets and plungers can be easily accessed for maintenance by simply removing a top cover plate.
**Bellows sealing**

The bellows sealing system for high pressure plunger pumps developed by Hammelmann enable reliable and safe pumping of fluids with high salt content.

The drive end of the pump is hermetically sealed off from the fluid end preventing the ingress of salt laden medium.

Hammelmann offer a wide range of high pressure pumps for the injection of aquifer water, produced water & saltwater into oil and gas fields.

The pumps offer robust construction, low space requirement and remarkable reliability.

Even the build up of crystallized salt on the surface of the bellows has no negative effect on the reliability of these components. This has been confirmed by numerous tests and in practice.

During pump operation each individual bellows fold is equally compressed. The stretching and contracting motions are within elasticity limits so that there is virtually no wear on these components.

**Technical data, series 5**

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Part name</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Discharge valve</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Valve housing</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Suction valve</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Suction chamber</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Sleeve</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>High pressure seal</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Plunger</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Low pressure seal</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Bellow</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Crosshead</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Connection rod</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Reduction gear</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Crank shaft</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Crank housing</td>
<td></td>
</tr>
</tbody>
</table>

**Wetted parts materials**

<table>
<thead>
<tr>
<th>Pos.</th>
<th>Part name</th>
<th>Standard</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Plunger</td>
<td>Ceramic</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Valve housing</td>
<td>22% Duplex steel</td>
<td>25% Super duplex steel</td>
</tr>
<tr>
<td>3</td>
<td>Seals</td>
<td>NBR / Polyamide</td>
<td>FFKM / PEEK</td>
</tr>
<tr>
<td>4</td>
<td>Suction chamber</td>
<td>18–10 Chromium steel</td>
<td>25% Super duplex steel</td>
</tr>
</tbody>
</table>

* Right reserved to make technical modifications

Other materials available.

**Recommendations and standards**

- EU Machine directive 98/37/ EU
- ATEX 94/9/EU API 674 (with exceptions)
- Other customer specified standards, i.e. NORSOK M501 NORSOK M650 NACE MR 0175

**Performance data, series 5 (Selection)**

<table>
<thead>
<tr>
<th>Pump model</th>
<th>2500 psi</th>
<th>170 bar</th>
<th>5000 psi</th>
<th>345 bar</th>
<th>10000 psi</th>
<th>690 bar</th>
<th>Crank speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDP 75</td>
<td>D 55</td>
<td>35 gpm</td>
<td>D 35</td>
<td>135 l/min</td>
<td>14 gpm</td>
<td>54 l/min</td>
<td>7,7 gpm</td>
</tr>
<tr>
<td>HDP 125</td>
<td>D 70</td>
<td>59 gpm</td>
<td>D 50</td>
<td>225 l/min</td>
<td>30 gpm</td>
<td>114 l/min</td>
<td>14 gpm</td>
</tr>
<tr>
<td>HDP 175</td>
<td>D 70</td>
<td>85 gpm</td>
<td>D 50</td>
<td>324 l/min</td>
<td>43 gpm</td>
<td>166 l/min</td>
<td>20 gpm</td>
</tr>
<tr>
<td>HDP 255</td>
<td>D 70</td>
<td>144 gpm</td>
<td>D 50</td>
<td>543 l/min</td>
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<td>34 gpm</td>
</tr>
<tr>
<td>HDP 365</td>
<td>D 120</td>
<td>222 gpm</td>
<td>D 80</td>
<td>643 l/min</td>
<td>98 gpm</td>
<td>374 l/min</td>
<td>54 gpm</td>
</tr>
<tr>
<td>HDP 485</td>
<td>D 120</td>
<td>317 gpm</td>
<td>D 80</td>
<td>1200 l/min</td>
<td>141 gpm</td>
<td>534 l/min</td>
<td>78 gpm</td>
</tr>
<tr>
<td>HDP 755</td>
<td>D 120</td>
<td>528 gpm</td>
<td>D 80</td>
<td>2000 l/min</td>
<td>234 gpm</td>
<td>889 l/min</td>
<td>130 gpm</td>
</tr>
</tbody>
</table>

D = Piston dia [mm]
The compact design of Hammelmann pumps is a space saving advantage for installation on offshore platforms and FPSO's. They are increasingly specified as the pumps of choice for offshore installations.

### Round the clock operation

- **Aasgard**
- **Agbami**
- **Aker 1-6**
- **Allegheny**
- **Anna Platform**
- **Atlantis**
- **Auger**
- **Auger Aptil**
- **Baton Rouge**
- **Black Widow**
- **Brazil**
- **Brots/Glider**
- **BS4**
- **Cabida Block**
- **Canyon Express**
- **Conger Salsa**
- **Demos**
- **Forvie**
- **Garden Banks**
- **Garnet**
- **Gjoa Semi**
- **Groupo R**
- **Hickory**
- **Holstein**
- **Horn Mountain**
- **Houma**
- **Indep. Hub 3**
- **Independence**
- **Janice**
- **K2 Green Canyon**
- **K-Fels**
- **Kikeh-Gusto**
- **King Kong**
- **Kings Peek**

### Pump unit HDP 257
- Pumping produced water
- Temperature: 95°F / 35°C
- Chlorides: 15,000 ppm
- Op. pressure 1160 psi - 80 bar
- Flow rate 200 gpm - 760 l/min

### Pump unit HDP 755
- Pumping seawater
- Temperature: 86°F / 30°C
- Chlorides: 35,000 ppm
- Op. pressure 2600 psi - 180 bar
- Flow rate 365 gpm - 1380 l/min

### Pump unit HDP 755
- Pumping produced water
- Temperature: 158°F / 70°C
- Chlorides: 140,000 ppm
- Op. pressure 3050 psi - 210 bar
- Flow rate 438 gpm - 1660 l/min

### Pump unit HDP 125
- Pumping produced water
- Temperature: 212°F / 100°C
- Chlorides: 180,000 ppm
- H2S: 6,100 ppm
- Op. pressure 6200 psi - 430 bar
- Flow rate 45 gpm - 170 l/min

### Pump unit HDP 755
- Pumping produced water
- Temperature: 149°F / 65°C
- Chlorides: 110,000 ppm
- Op. pressure 3050 psi - 210 bar
- Flow rate 438 gpm - 1660 l/min

### Pump unit HDP 755
- Pumping produced water
- Temperature: 158°F / 70°C
- Chlorides: 140,000 ppm
- Op. pressure 3050 psi - 210 bar
- Flow rate 438 gpm - 1660 l/min

### Pump unit HDP 125
- Pumping produced water
- Temperature: 212°F / 100°C
- Chlorides: 180,000 ppm
- H2S: 6,100 ppm
- Op. pressure 6200 psi - 430 bar
- Flow rate 45 gpm - 170 l/min

Hammelmann offer a wide range of high pressure pumps for the chemical, petrochemical, oil and gas industries. Visit our website.

www.process-pumps.de