JPF, JPS, JDF

Shallow Well, Deep Well and Convertible Jet Pumps

60 Hz
## Contents

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<tr>
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</table>
Mission

- to successfully develop, produce, and sell high quality pumps and pumping systems worldwide, contributing to a better quality of life and healthier environment

Bjerringbro, Denmark

Fresno, California

Olathe, Kansas

Monterrey, Mexico

Allentown, Pennsylvania

Oakville, Ontario, Canada

- One of the largest pump companies in the world with over 11,000 employees worldwide
- World headquarters in Denmark
- North American headquarters in Kansas City - Manufacturing in Fresno, California
- 60 companies in 40 countries
- More than 10 million pumps produced annually worldwide
- North American companies operating in USA, Canada and Mexico
- Continuous reinvestment in growth and development enables the company to

BE responsible, THINK ahead, and INNOVATE
Performance range

JPF, JDF, JPS
Product Range

Flow, USgph

H[ft]
## General data

### Product range

<table>
<thead>
<tr>
<th>Model</th>
<th>JPF 2-A</th>
<th>JPF 3-A</th>
<th>JPF 4-A</th>
<th>JPF 41-A</th>
<th>JPF 5-A</th>
<th>JPF 7-A</th>
<th>JPS 2-A</th>
<th>JPS 4-A</th>
<th>JDF 2-A</th>
<th>JDF 4</th>
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<tr>
<td>Flow range (gpm)</td>
<td>0-13</td>
<td>0-12.5</td>
<td>0-16</td>
<td>0-21</td>
<td>0-22</td>
<td>0-35</td>
<td>0-17</td>
<td>0-29</td>
<td>0-10</td>
<td>0-14</td>
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<tr>
<td>Max. pump head H(ft)</td>
<td>135</td>
<td>170</td>
<td>172</td>
<td>185</td>
<td>200</td>
<td>200</td>
<td>140</td>
<td>155</td>
<td>145</td>
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<td>Max. working pressure (psi)</td>
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<td>110</td>
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<td>Motor power (hp), Nominal</td>
<td>1/3</td>
<td>1/2</td>
<td>3/4</td>
<td>1</td>
<td>1.5</td>
<td>2</td>
<td>1/2</td>
<td>1</td>
<td>1/2</td>
<td>3/4</td>
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<tr>
<td>Maximum Fluid Temperature range</td>
<td>14°F to 104°F (-10 to 40°C)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td>Maximum lift, Ft</td>
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<td>26</td>
<td>26</td>
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<td></td>
<td></td>
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<tr>
<td>Maximum Ambient Temp</td>
<td>34°F to 104°F (1 to 40°C)</td>
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<td>Factory Pressure - Switch setting (PSI)</td>
<td>20-40</td>
<td>30-50</td>
<td>30-50</td>
<td>50-70</td>
<td>50-70</td>
<td>50-70</td>
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<td>Storage Temp</td>
<td>14°F to 104°F (-10 to 40°C)</td>
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<td>Relative Humidity</td>
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<td>Maximum Starts per hour</td>
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</table>
General data

Applications
Shallow well, Deep well and Convertible pump applications. Grundfos jet pumps are self-priming centrifugal pumps suitable for domestic water supply systems, light agricultural and industrial water transfer applications.

Pumps
JPF2A, JPF3A, JPF4A, JPF41A Pumps:
Rugged cast iron construction, single-stage shallow well centrifugal pumps. End suction, top discharge arrangement and Technopolymer impeller. Pump has built-in ejector complete with clean out port to clear blockages from nozzle. Convenient priming plug for ease of priming and air elimination. Ceramic-Carbon bellows mechanical seal ensures trouble-free operation.

JPF5A & JPF7A Pumps:
Rugged cast iron construction, multistage convertible centrifugal pumps. End suction, top discharge arrangement with detachable ejector assembly for deep well applications and Technopolymer impellers. Pump complete with clean out port to clear blockages from nozzle. Convenient priming plug for ease of priming and air elimination. Ceramic-Carbon bellows mechanical seal ensures trouble-free operation.

JDF2A & JDF4A Pumps:
Rugged cast iron construction, single-stage deep well centrifugal pumps. End suction, top discharge arrangement and Technopolymer impeller. Pump has separate deep well port for connection to Deep Well ejector kit. Convenient priming plug for ease of priming and air elimination. Ceramic-Carbon bellows mechanical seal ensures trouble-free operation.

JPS2A & JPS4A Pumps:
Corrosion resistant stainless steel construction, single stage shallow well centrifugal pumps. End suction, top discharge arrangement and Technopolymer impeller. Ceramic-Carbon bellows mechanical seal ensures trouble-free operation.

Motors
All jet pump motors are totally enclosed and fan-cooled design for quiet operation and superior protection in harsh environments. Stainless steel motor shaft offers excellent corrosion resistance. Double, oversized greased ball bearings are maintenance-free sealed for life. All motors have built-in thermal overload protection and are capacitor-run, with no switches to fail. Drive end motor bearing protected by durable lip seal. Motor insulation class F. NEMA 3R enclosure rating on motor terminal box.

Pumped Liquid
Only use on clean, non-viscous, non-aggressive, non-explosive liquids. Pump not to be used on pool water applications or hydrocarbon transfer (i.e. diesel, gasoline, etc).

Agency Approvals:
CSA - Std C22.2 No 108, No 77-95.

Mounting Position:
Shaft in horizontal position only for all pumps.
### General data

#### Electrical Data:

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage 60 Hz</th>
<th>kW Maximum</th>
<th>hp Nominal</th>
<th>S.F.</th>
<th>Amps</th>
<th>Capacitor µF</th>
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<td>JPF2A</td>
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<td>0.44</td>
<td>1/3</td>
<td>1.8</td>
<td>6</td>
<td>40</td>
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<td>10</td>
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<td>0.59</td>
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<td>3.8</td>
<td>12.5</td>
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<td>JPF4A</td>
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<td>3/4</td>
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<td>10</td>
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<td>1.3</td>
<td>5</td>
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<td>2.0</td>
<td>13.6</td>
<td>80</td>
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<td>1</td>
<td>2.0</td>
<td>7</td>
<td>20</td>
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<tr>
<td>JDF2A</td>
<td>115</td>
<td>0.6</td>
<td>1/2</td>
<td>1.6</td>
<td>7</td>
<td>50</td>
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<tr>
<td>JDF 2A</td>
<td>230</td>
<td>0.6</td>
<td>1/2</td>
<td>1.6</td>
<td>3.4</td>
<td>12.5</td>
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<td>0.75</td>
<td>3/4</td>
<td>1.3</td>
<td>8</td>
<td>64</td>
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<td>FDF 4A</td>
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<td>0.75</td>
<td>3/4</td>
<td>1.3</td>
<td>4</td>
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info@lenntech.com - Tel.+31(0)15-261.09.00  
www.lenntech.com - Fax.+31(0)15-261.62.89
### JPF 2A, 3A, 4A, 41A Shallow Well

<table>
<thead>
<tr>
<th>Descriptions</th>
<th>Material</th>
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<tr>
<td>Motor Stool</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Shaft Seal</td>
<td>Carbon/Ceramic/NBR</td>
</tr>
<tr>
<td>O-Rings &amp; Gaskets</td>
<td>NBR</td>
</tr>
<tr>
<td>Base Plate</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Pump Housing</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Impeller</td>
<td>Technopolymer</td>
</tr>
<tr>
<td>Tubing</td>
<td>Polyethylene</td>
</tr>
<tr>
<td>Seal plate</td>
<td>Noryl©</td>
</tr>
<tr>
<td>Ejector/Guide Vane</td>
<td>Noryl©</td>
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</tbody>
</table>

Note: Noryl© is a registered trademark of General Electric Company

### JPF 5A, 7A Convertible

<table>
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<td>Shaft Seal</td>
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<tr>
<td>Motor Shaft</td>
<td>Stainless Steel</td>
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<td>O-Rings &amp; Gaskets</td>
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<tr>
<td>Base Plate</td>
<td>Cast Iron</td>
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<tr>
<td>Pump housing</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Impellers</td>
<td>Technopolymer</td>
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<tr>
<td>Tubing</td>
<td>Polyethylene</td>
</tr>
<tr>
<td>Seal plate</td>
<td>Noryl©</td>
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<tr>
<td>Ejector/Guide Vane</td>
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Note: Noryl© is a registered trademark of General Electric Company
### General data

#### JPS 2A, 4A

<table>
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<td>Shaft Seal</td>
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<td>Technopolymer A</td>
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<td>Tubing</td>
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#### JDF 2A, 4A

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<td>Pump housing</td>
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<td>Impeller</td>
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<td>Tubing</td>
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<td>Seal plate</td>
<td>Noryl®</td>
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</table>

Note: Noryl® is a registered trademark of General Electric Company.
Features and Benefits
Assembled jet-pump and tank package. Available with rugged cast iron pump or corrosion-resistant stainless steel pump mounted on a stainless steel, 6 gallon (24 Litre) diaphragm tank. Package comes complete with pressure switch, gauge, hose and fittings, ready to go.

Materials: JPF Pump Package

<table>
<thead>
<tr>
<th>Descriptions</th>
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<tbody>
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<td>Carbon/Ceramic/NBR</td>
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<tr>
<td>O-Rings and Gaskets</td>
<td>NBR</td>
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<tr>
<td>Base Plate</td>
<td>Cast Iron</td>
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<td>Pump Housing</td>
<td>Cast Iron</td>
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<td>Impeller</td>
<td>Technopolymer</td>
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<td>Tubing</td>
<td>Polyethylene</td>
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<td>Ejector/Guide Vane</td>
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<tr>
<td>Tank</td>
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Note: Noryl® is a registered trademark of General Electric Company

Materials: JPS Pump Package

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<td>Carbon/Ceramic/NBR</td>
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<td>O-Rings and Gaskets</td>
<td>NBR</td>
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<tr>
<td>Base Plate</td>
<td>Steel</td>
</tr>
<tr>
<td>Pump Housing</td>
<td>Stainless Steel AISI304</td>
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<tr>
<td>Impeller</td>
<td>Technopolymer A</td>
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<tr>
<td>Tubing</td>
<td>Polyethylene</td>
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<tr>
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<tr>
<td>Ejector/Guide Vane</td>
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Dimensional Drawings

Dimensions and Weights

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<th>Motor Data</th>
<th>D1 Suction NPT</th>
<th>D2 Disch. NPT</th>
<th>Dimensions (inches)</th>
<th>Ship Wt. (lbs)</th>
<th>Ship Vol. (Cu Ft.)</th>
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<td>PH</td>
<td>Volts</td>
<td>NPT</td>
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<td>JPF2A</td>
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<td>115 or 230</td>
<td>1&quot;</td>
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<td>JPF3A</td>
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<td>1&quot;</td>
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<td>3/4</td>
<td>1.3</td>
<td>1</td>
<td>115 or 230</td>
<td>1&quot;</td>
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<td>JPF41A</td>
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<td>1.4</td>
<td>1</td>
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<td>1&quot;</td>
<td>1&quot;</td>
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Shallow Well Performance Chart

<table>
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<th>Shut-off (PSI)</th>
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Shallow Well Performance Curves

Performance curves JPF 2A, 3A, 4A, 41A

info@lenntech.com   -  Tel.+31(0)15-261.09.00
www.lenntech.com   - Fax.+31(0)15-261.62.89
### Dimensional Drawings

![Dimensional Drawings](image)

### Dimensions and Weights

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<th>D3 Return NPT</th>
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Conversion Instructions from Shallow Well to DeepWell

Remove bolts and detach ejector nose from convertible jet pump. Connect suction (D1) and pressure (D3) port to deep well ejector.
### Shallow Well Performance Chart

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### Performance Curves

![Performance Curves](image)
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### Dimensional Drawings

![Dimensional Drawings](image)

### Dimensions and Weights

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Performance curves

JPS 2A, 4A
Technical data

JDF 2A, 4A

Dimensional sketches

Dimensions and Weights

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Performance curves

JPF Pump Package
*Only available in Canada

Dimensional Drawings

![Dimensional Drawing]

Dimensions and Weights

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Dimensional Drawings

Dimensions and Weights

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<th>Pump Type</th>
<th>Motor Data</th>
<th>D1 Suction NPT</th>
<th>D2 Disch. NPT</th>
<th>Dimensions (inches)</th>
<th>Ship Wt. (lbs)</th>
<th>Ship Vol. (Cu Ft.)</th>
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<td>A 14.8 B 11.9 B1 9.3 C 3.7 E 7.1 F 15.2 G 11.9 H1 8.5 H2 6.0 Ø 0.38</td>
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Shallow Well Performance Chart

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<th>Depth to Water</th>
<th>Discharge Pressure (PSI)</th>
<th>Shut-off (PSI)</th>
<th>Pressure Switch Settings (PSI)</th>
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