HDP 250 L High Pressure Pump series

Design criteria

Hammelmann high pressure pumps are built to operate at the continuous maximum duty stated in the performance parameters. Just compare the crankshaft speed, average plunger speed, plunger diameter and power rating.

Features

- Power ratings up to 250 kW
- Horizontal 5 cylinder design
- Wide variety of complementary ancillaries

Quality and reliability

- Stainless steel pump head free of alternating stress
- Cross head piston bellows seal
- Choice of application specific seal assemblies
- Solid ceramic or tungsten carbide plungers
- Choice of bronze or stainless steel suction chamber
- Crank section calculation by ‘Finite element method’ ensures long working life under continuous load
- Crankshaft supported by 3 bearings and incorporating twin helical speed reducing gears
- Pressurised oil lubrication system with oil cooler/filter

High pressure pump
Weight: approx. 1050 kg
Technical data, series HDP 250 L

Performance parameters

<table>
<thead>
<tr>
<th>Q (l/min)*</th>
<th>D r.p.m.</th>
<th>n1</th>
<th>n2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>110</td>
<td>132</td>
</tr>
<tr>
<td></td>
<td>Operating pressure [bar]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>1800</td>
<td>2250</td>
<td>2750</td>
</tr>
<tr>
<td>38</td>
<td>1500</td>
<td>1800</td>
<td>2250</td>
</tr>
<tr>
<td>46</td>
<td>1250</td>
<td>1500</td>
<td>1800</td>
</tr>
<tr>
<td>42</td>
<td>1350</td>
<td>1650</td>
<td>2100</td>
</tr>
<tr>
<td>50</td>
<td>1150</td>
<td>1350</td>
<td>1650</td>
</tr>
<tr>
<td>60</td>
<td>1350</td>
<td>1700</td>
<td>2250</td>
</tr>
<tr>
<td>67</td>
<td>1250</td>
<td>1600</td>
<td>1650</td>
</tr>
<tr>
<td>80</td>
<td>1250</td>
<td>1600</td>
<td>1650</td>
</tr>
<tr>
<td>96</td>
<td>1250</td>
<td>1600</td>
<td>1650</td>
</tr>
</tbody>
</table>

* At pressures over 2000 bar approx. 5% of the flow rate is lost due to the compressibility factor of water

Conversion table

- Rod force: 82 kN
- Stroke: 75 mm
- Mean piston speed at n2
  - 390 r.p.m. = 0.97 m/sec
  - 465 r.p.m. = 1.16 m/sec
  - 555 r.p.m. = 1.39 m/sec

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