Individual pumps

Variable displacement axial piston pump type K60N

Fixed displacement axial piston pumps operate according to the bent axis principle. They have a constant output volume and therefore deliver a constant flow rate at a specific rotation speed.

The axial piston pump type K60N is designed for open circuits in mobile hydraulics and operates based on the bent axis principle.

The pump is fitted mainly to the power take-off on commercial vehicle transmissions.

Features and benefits:
- Optimized power-to-weight ratio
- High rotation speed
- Different shaft and flange versions

Intended applications:
- Machines for forestry and agricultural purposes
- Cranes and lifting equipment
- Truck-mounted concrete pumps
- Municipal trucks

Design and order coding example

<table>
<thead>
<tr>
<th>K60N</th>
<th>- 064</th>
<th>R</th>
<th>S</th>
<th>F</th>
<th>N</th>
<th>- S - F12</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

- Additional versions: Bypass valve
- Seal material: NBR (N), FKM (V)
- Flange version: DIN ISO 7653 (Y), SAE-C, SAE-B J 744 (F)
- Shaft version: ISO 14 parallel key splined shaft (D), SAE-C, SAE-B J 744 spline shaft (S)
- Rotating direction: Counter clockwise (L), clockwise (R)

Nomenclature:
- Axial piston pump
- Constant pump

Design:
- Single pump

p_{max}:
- 400 bar

V_{g max}:
- 108 cm³/rev

Function
## General parameters and dimensions

![Diagram of hydraulic pump](image.png)

### Parameters

<table>
<thead>
<tr>
<th>Geom. output volume</th>
<th>Nom. pressure</th>
<th>Self-suction speed</th>
<th>Dimensions [mm]</th>
<th>m [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>$V_g$ [cm³/rev]</td>
<td>$p_{nom}$ (p$_{max}$) [bar]</td>
<td>n [rpm]</td>
<td>L</td>
<td>L1</td>
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<td>12,6</td>
<td>400</td>
<td>3300</td>
<td>207</td>
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<td>K60N - 017</td>
<td>17,0</td>
<td>400</td>
<td>3000</td>
<td>209</td>
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<td>25,4</td>
<td>400</td>
<td>2550</td>
<td>209</td>
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<tr>
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<td>34,2</td>
<td>400</td>
<td>2250</td>
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<td>41,2</td>
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<td>2100</td>
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<td>1700</td>
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<td>K60N - 108</td>
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<td>K60N - 130</td>
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<td>1600</td>
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### Associated technical data sheets:
- Fixed displacement axial piston pump type K60N: D 7960 K
- Similar products:
  - Variable displacement axial piston pump type V30D: D 7960
  - Variable displacement axial piston pump type V30E: D 7960 E
  - Variable displacement axial piston pump type V60N: D 7960 N
  - Variable displacement axial piston pump V80M: D 7962 M
  - Axial piston motors type M60N: D 7960 M

### Suitable proportional directional spool valve:
- Type EDL: D 8086
- Type PSL/PSV size 2, 3 and 5: D 7700-2, D 7700-3, D 7700-5
- Type PSLF/PSVF size 3, 5 and 7: D 7700-3F, D 7700-5F, D 7700-7F

### Suitable load-holding valves:
- Type LHK, LHDV, LHT: D 7100, D 7770, D 7918