PZH-SERIES
AXIAL PISTON PUMP

Low noise level: 70dB (A)
at full cut-off at 350bar
PZH-SERIES

Axial Piston Pump for High-Pressure Application

Interfaces:
- Flange: SAE and ISO on board
- Key shaft, metric key shaft

Pressure & Flow:
- $P_{\text{max}}$: 350bar
- $P_{\text{peak}}$: 400bar
- $Q$: 45 cm³/rev. and 72 cm³/rev

Benefits:
- Low noise level: 70dB(A) at full cut-off at 350bar
- Energy-saving by use of highly-efficient spherical valve plate
- Very long lifetime with high load resistant Nachi-Bearings
- Different pressure compensator available

Features:
- Spherical valve plate with self-aligning function has minimised the leakage at high pressure
- Improved mechanical efficiency by reduced friction losses at high pressure
- Large port diameter for less internal pressure drop

Application Examples

Pump Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Volume (cm³/rev)</th>
<th>Pressure (bar)</th>
<th>Pressure adjustment range (bar)</th>
<th>Speed (rpm)</th>
<th>Weight (approx.) kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>PZH-3B-72NS-10</td>
<td>72</td>
<td>350-400</td>
<td>20-350</td>
<td>500-2000</td>
<td>42</td>
</tr>
<tr>
<td>PZH-2B-45NS-10</td>
<td>45</td>
<td>350-400</td>
<td>20-350</td>
<td>500-2000</td>
<td>30</td>
</tr>
</tbody>
</table>

JIS Symbol
**Explanation of Model Code**

- **Design Number:** 10
- **Supplementary Symbol for Pump Mounting:**
  - Blank: SAE standard basis outlet port locates laterally (mounting type A only)
  - M: ISO standard basis
  - Y: Outlet port locates upward (mounting type A only)
- **Pressure Adjustment Range:**
  - 5: 20 – 350bar
- **Control Method:**
  - N: Pressure compensator type
  - L: Constant horse power control (Please contact us)
- **Pump Volume:** 45 cm³/rev. or 72 cm³/rev
- **Mounting Type**
  - A: Foot mounting
  - B: Flange type
- **Pump size:**
  - 2: 45 cm³/rev.
  - 3: 72 cm³/rev.
- **PZH Series:** High-Pressure Variable Piston Pump