With the next generation of the bent axis motors, Linde Hydraulics expands its customer oriented portfolio of high-quality components for hydraulic systems.

The variable displacement motor CMV is characterized by its high external load and speed capacity. Due to its standardized interfaces, e.g. the plug-in flange according to ISO, the CMF fits a high variety of applications, without the need of adaptors.

Low windage losses in combination with the low weight of the motor support the cost-effective operation of the application.

### Advantages
- >> high power density
- >> high speeds
- >> low windage losses

### Design features
- >> variable displacement bent axis motor
- >> standardized interfaces
- >> speed sensor optional

### General technical data

<table>
<thead>
<tr>
<th></th>
<th>Nominal size</th>
<th>60</th>
<th>85</th>
<th>115</th>
<th>140</th>
<th>170</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal size</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Displacement</strong></td>
<td>Maximum displacement cc/rev</td>
<td>60</td>
<td>85</td>
<td>115</td>
<td>140</td>
<td>170</td>
</tr>
<tr>
<td><strong>Speed</strong></td>
<td>Maximum operating speed at Vmax rev/min</td>
<td>4450</td>
<td>3900</td>
<td>3550</td>
<td>3350</td>
<td>3100</td>
</tr>
<tr>
<td></td>
<td>Maximum operating speed at Vmin rev/min</td>
<td>7200</td>
<td>6800</td>
<td>6150</td>
<td>5800</td>
<td>4900</td>
</tr>
<tr>
<td><strong>Pressure</strong></td>
<td>Nominal pressure bar</td>
<td>450</td>
<td>450</td>
<td>450</td>
<td>450</td>
<td>450</td>
</tr>
<tr>
<td></td>
<td>Maximum pressure¹ bar</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>Maximum housing pressure bar</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td><strong>Torque (theoretical)</strong></td>
<td>Output torque at Δp= 430 bar and Vmax Nm</td>
<td>402</td>
<td>570</td>
<td>771</td>
<td>939</td>
<td>1140</td>
</tr>
<tr>
<td><strong>Corner power</strong></td>
<td>kW</td>
<td>191</td>
<td>238</td>
<td>293</td>
<td>336</td>
<td>378</td>
</tr>
<tr>
<td><strong>Weight (without oil) approx.</strong></td>
<td>kg</td>
<td>27.7</td>
<td>36.0</td>
<td>44.0</td>
<td>59.0</td>
<td>62.0</td>
</tr>
</tbody>
</table>

¹ highest transient pressure, that can temporarily occur
² at the planning stage
**CMV**

Variable displacement
Bent axis motor

### Customer interfaces

**Shafts**

- **DIN 5480**
- **ANSI B92.1 – 1970**

**Flanges**

- **ISO 3019 – 1 (SAE J744)**
- **ISO 3019 – 2 (metric)**
- **Plug-in ISO 3019 – 2**

**Ports**

- **Work ports ISO 6162 – 2**
  - Side Ports
  - Twin Ports
- **Threaded ports ISO 6149 – 1**

- **More shafts upon request**
- **More flanges upon request**
- **More ports upon request**

### Application examples

**Category**

- 10 t
- 15 t
- 25 t

**Equipment**

- **A**
  - 1 x HPV 105·02 E1 + 1 x HPV 55·02 E5
- **B**
  - 1 x CMV 115
- **C**
  - 1 x HMF 35-02
- **D**
  - 1 x CMV 60 Plug-in

**Category**

- 10 t
- 16 t
- 20 t

**Equipment**

- **A**
  - 2 x HPV 55·02 E1P
- **B**
  - 2 x CMV 60 Plug-in

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