Manual Pumps
Series 7106

Application
Manual pumps are used to generate pressure and vacuum, thus allowing mechanical and electronic pressure measuring instruments to be checked through comparative measurements, adjusted and calibrated.

Application fields where these pressure measurements are particularly valuable include:
- Power stations
- Chemical industry
- Refineries
- Machine building
- Servicing shops etc.

Depending on the calibration range, a manual pump, a spindle pump or a lever pump are used to generate the pressure. The pressurized medium may consist of air, water or oil. The range of pressures extends from vacuum up to 690 bar. Each pump has a pressure drop rate typical for its type. This may be up to 3% of its maximum pressure value within five minutes and depends, among other things, on the medium, the temperature and on the volume of the cylinder.
## Technical Data

<table>
<thead>
<tr>
<th>Model</th>
<th>7106-V0690</th>
<th>7106-V0034</th>
<th>7106-V0007</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Figure</strong></td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td><strong>Functional Principle</strong></td>
<td>hand pump</td>
<td>hand pump</td>
<td>pneumatic pump</td>
</tr>
<tr>
<td><strong>Producible Pressure</strong></td>
<td>0 bar ... 690 bar</td>
<td>-0,85 bar ... 34 bar</td>
<td>-0,85 bar ... 7 bar</td>
</tr>
<tr>
<td><strong>Pressure Medium</strong></td>
<td>mostly all pressure fluids, oil and water</td>
<td>air</td>
<td>air</td>
</tr>
<tr>
<td><strong>Pressure Connection</strong></td>
<td>2 x $\frac{1}{4}''$ NPT female</td>
<td>$\frac{1}{4}''$ NPT female</td>
<td>$\frac{5}{8}''$ NPT female</td>
</tr>
<tr>
<td><strong>Medium Contacting Parts</strong></td>
<td>-</td>
<td>-</td>
<td>anodized aluminium, nickel plated brass, stainless steel, Nylon</td>
</tr>
<tr>
<td><strong>Reservoir</strong></td>
<td>standard</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Volumenfeineinstellung</strong></td>
<td>standard</td>
<td>standard</td>
<td>standard</td>
</tr>
<tr>
<td><strong>Ablassventil</strong></td>
<td>standard</td>
<td>standard</td>
<td>standard</td>
</tr>
</tbody>
</table>

### Adapter set for hand pumps

**Model 7106-Z1191**
- 1 x $\frac{1}{4}''$ BSP to $\frac{1}{4}''$ BSP F
- 1 x $\frac{1}{4}''$ BSP to $\frac{3}{4}''$ BSP F
- 1 x $\frac{1}{4}''$ BSP to $\frac{1}{2}''$ BSP F
- 1 set O-rings
- Teflon tape

**Model 7106-Z1192**
- 1 x $\frac{1}{4}''$ BSP to $\frac{1}{2}''$ NPT F
- 1 x $\frac{1}{2}''$ BSP to $\frac{3}{4}''$ NPT F
- 1 x $\frac{1}{4}''$ BSP to $\frac{3}{4}''$ NPT F
- 1 x $\frac{1}{4}''$ BSP to $\frac{1}{2}''$ NPT F
- 1 set O-rings
- Teflon tape