SVM320 is Walvoil’s new hydraulic joystick.

Walvoil is offering an innovative, original, solid and reliable product, completely adaptable to customer needs by the modularity of the fixing flanges and the endless possibilities of completion thanks to the compatibility with the whole own range of handles.

Thanks to its design, the new hydraulic joystick allows to manage and regulate flow rates with lower operating forces than entire standard range.

The cast iron body ensure high durability, greater resistance to oil contamination and maintain unchanged characteristics during the joystick life cycle.

**Working conditions**

<table>
<thead>
<tr>
<th></th>
<th>SVM320</th>
<th>Walvoil SVM standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. pressure</td>
<td>30 bar</td>
<td>-380 psi</td>
</tr>
<tr>
<td>Max. pressure</td>
<td>100 bar</td>
<td>-1450 psi</td>
</tr>
<tr>
<td>Max. rated flow</td>
<td>12 l/min</td>
<td>-3.17 Us gpm</td>
</tr>
<tr>
<td>Hydraulic fluid</td>
<td>mineral oil</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>3 - 400 mm²/s - 3 - 400 cSt</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-20/+90°C - -4/+194°F</td>
<td></td>
</tr>
<tr>
<td>Contamination</td>
<td>18/15 (ISO/DIS 4406)</td>
<td></td>
</tr>
<tr>
<td>Internal leakage</td>
<td>max. 18 cm³/min - 1.1 in³/min</td>
<td></td>
</tr>
</tbody>
</table>

**Performance data**

**Comparison between SVM320 and std. SVM**

![Graph showing comparison between SVM320 and std. SVM](image)
Dimensions

HYDRAULIC CIRCUIT

G 1/4 Port Thread

SAE 6 Port Thread

SAE 4 Port Thread

Port thread

<table>
<thead>
<tr>
<th>Port Thread</th>
<th>BSP</th>
<th>UN-UNF</th>
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<tbody>
<tr>
<td>1/4</td>
<td>7/16-20 (SAE 4)</td>
<td>9/16-18 (SAE 6)</td>
</tr>
</tbody>
</table>
Available control curve types

- **Straight type**
  - Operating angle vs. Output pressure

- **Straight type with step**
  - Operating angle vs. Output pressure

- **Piecewise**
  - Operating angle vs. Output pressure

- **Piecewise with step**
  - Operating angle vs. Output pressure

**Features**

- **Low drive force**
  - Possibility to manage and regulate flow rates with low operating forces in slow movements and in Bucket-Shaking.

- **Patented Design**
  - Thanks to a patented design solution, all configurations of this new hydraulic joystick are provided with a no-damping system.

- **Handles**
  - Endless possibilities to complete and customize the joystick thanks to the compatibility with the whole range of Walvoil handles.

- **High Durability**
  - The cast iron body and the treated spool ensure high durability, greater resistance to oil contamination and maintain unchanged characteristics (such as leakage) during the joystick life cycle.