High-flow priority valve OLS 320

High-flow priority valves are needed especially for large tractors, wheel loaders, motor graders and container trucks.

The new Danfoss priority valve OLS 320 can fulfill demands from these applications.

The priority valve OLS 320 is to be used in connection with Danfoss steering units type OSPC LS, OSPF LS, OSPD LS, OSPQ LS and OSPL LS in load sensing steering system with pump flow up to 320 l/min.

OLS 320 priority valve is available as in-line and flange-on versions for EHPS.

Pressure drop P-EF is very low, less than 6 bar at 320 l/min at EF load higher than spring force.

Features

• High flow capacity
• Low pressure drop
• Compact modular design
• With or without built-in pilot pressure relief valve
• Optional port connections
• Available for both static and dynamic systems

Comprehensive technical literature online at powersolutions.danfoss.com
Code numbers and weight, OLS 320 dynamic in-line/stand alone, black painted

<table>
<thead>
<tr>
<th>Priority</th>
<th>Code numbers</th>
<th>Control spring pressure (bar [psi])</th>
<th>Pilot relief valve (bar [psi])</th>
<th>Weight (kg [lb])</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLS 320, EU version</td>
<td>11006593</td>
<td>7</td>
<td>[102]</td>
<td>170 [2465] 5.9 [13.0]</td>
</tr>
<tr>
<td>OLS 320, US version (CF = 11/16 - 12 UN)</td>
<td>11007475</td>
<td>10</td>
<td>[145]</td>
<td>no relief valve 5.9 [13.0]</td>
</tr>
</tbody>
</table>

Technical data

<table>
<thead>
<tr>
<th>Priority valve</th>
<th>Rated flow to P connection, l/min [USgal/min]</th>
<th>Max pressure on connections: P,EF (bar [psi])</th>
<th>CF (bar [psi])</th>
<th>LS (bar [psi])</th>
<th>T (bar [psi])</th>
</tr>
</thead>
<tbody>
<tr>
<td>OLS 320 all versions</td>
<td>320</td>
<td>300</td>
<td>280</td>
<td>280</td>
<td>40</td>
</tr>
</tbody>
</table>

Dimensions

European version

- **P,EF**: G 1 w. spot face; x = ø47 mm (1.85 in); max 1 mm (0.04 in) deep
- **CF**: G ½ w. spot face; y = ø34 mm (1.34 in); max 1 mm (0.04 in) deep
- **LS,PP**: G ¼ w. spot face
- **T**: G ¼ w. spot face; z = ø25 mm (0.98 in); max 1.5 mm (0.06 in) deep

US version

- **P,EF**: 1 5/16-12 UN O-ring boss; x = ø49 mm (1.93 in); max 0.2 mm (0.01 in) deep
- **CF**: 1 1/16-12 UN O-ring boss; y = ø41 mm (1.61 in); max 0.2 mm (0.01 in) deep; or ¾-16UNF O-ring boss; y = ø30 mm (1.18 in); max 0.2 mm (0.01 in) deep
- **LS,PP,T**: 7/16-20 UNF O-ring boss