Technical Information

Steering Unit
OSPU
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<th>Changed</th>
<th>Rev</th>
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<tbody>
<tr>
<td>March 2016</td>
<td>Updated to Engineering Tomorrow design</td>
<td>0202</td>
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<tr>
<td>May 2014</td>
<td>Converted to Danfoss layout - DITA CMS</td>
<td>BA</td>
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<tr>
<td>Aug 2013</td>
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<td>AA</td>
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Technical Information

OSPU Steering Unit

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A wide range of Steering Components

Danfoss is one of the largest producers in the world of steering components for hydrostatic steering systems on off-road vehicles. Danfoss offers steering solutions both at component and system levels. Our product range makes it possible to cover applications of all types - ranging from ordinary 2-wheel steering (also known as Ackermann steering) to articulated steering, automatic steering (e.g. by sensor) and remote controlled steering via satellite. We can offer more than 1,800 different steering units and 250 different priority valves categorized in types, variants and sizes.

For hydrostatic steering systems Danfoss offers:

- Mini steering units with displacements from 32 to 100 cm³/rev [1.95 to 6.10 in³/rev], flow up to 20 l/min [5.28 US gal/min], steering pressure up to 140 bar [2030 psi].
- Steering units with displacements from 40 to 1200 cm³/rev [2.44 to 73.2 in³/rev], flow up to 100 l/min [26.4 US gal/min], steering pressure up to 240 bar [3481 psi].
- Priority valves for rated flows at 40, 80, 120, 160 and 320 l/min [10.6, 21.1, 31.7, 42.3 and 84.5 US gal/min], pressure up to 350 bar [5076 psi].
- Pilot operated flow-amplifiers with amplification factors of 4, 5, 8, 10 or 20 for rated oil flows of 240 and 400 l/min [63.4 and 105.7 US gal/min], steering pressure up to 210 bar [3045 psi].
- Pilot operated steering valve with steering flow up to 100 l/min [26.4 US gal/min], steering pressure up to 250 bar [3625 psi] and with integrated priority valve for pump flow up to 120 l/min [31.7 US gal/min].

For electrohydraulic steering systems Danfoss offers:

- Pilot operated steering valves (pilot operated by hydrostatic steering unit or by electrical signal) with steering flows up to 100 l/min [26.4 US gal/min], steering pressure up to 250 bar [3625 psi].
- Steering units with integrated electrical operated steering valve with steering flow up to 50 l/min [13.2 US gal/min], steering pressure up to 210 bar [3045 psi].
A wide range of Steering Components

**Characteristic features for steering units:**

- Low steering torque: From 0.5 N-m to 3 N-m in normal steering situations
- Low noise level
- Low pressure drop
- Many types available: Open center Non-reaction, Open center Reaction, Power Beyond, Closed center Non-reaction, Load Sensing, Load Sensing Reaction
- One or more built-in valve functions: relief valve, shock valves, suction valves, non-return valve in P-line and in LS-line
- Optional port connections (according to ISO, SAE or DIN standards)

**Characteristic features for electrohydraulic steering systems with OSPE and EHPS:**

- Possibility of GPS, row sensor, variable steering ratio and joystick steering
- The possibility of manual steering even on very heavy vehicles
- EHPS: High steering pressure requiring smaller cylinders and flow
- EHPS: Low pilot pressure and flow giving extremely low noise in the cabin
- EHPS: Can be combined with Danfoss PVG 32 proportional valve

**Conversion factors**

1 N·m = [8.851 lbf·in]  
1 l = [0.264 US gal]  
1 N = [0.2248 lbf]  
1 bar = [14.5 psi]  
1 mm = [0.0394 in]  
°F = [1.8°C + 32]  
1 cm³ = [0.061 in³]
Technical literature survey

Survey of literature with technical data on Danfoss Steering Components

Detailed data on all Danfoss steering components and accessories can be found in our steering component catalogues, which is divided into the following individual sub catalogues:

<table>
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<tr>
<th>General information</th>
<th>Steering components</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical data on mini steering units</td>
<td>OSPM</td>
</tr>
<tr>
<td>Technical data on open center, and closed center steering units</td>
<td>OSPB, OSPC, and OSPD</td>
</tr>
<tr>
<td>Technical data on load sensing steering units, priority valves and flow amplifiers</td>
<td>OSPB, OSPC, OSPF, OSPD, OSPL, OSPBX, OSPLX, OVPL, OLS and OSQ</td>
</tr>
<tr>
<td>Technical data on hydraulic and electrohydraulic pilot operated steering valves, electrical actuation modules and appropriate steering units.</td>
<td>EHPS, EHPS w. OLS 320, PVE for EHPS and OSPCX</td>
</tr>
<tr>
<td>Technical data on combined steering unit/electrohydraulic steering valves and steering wheel sensors</td>
<td>OSPE, SASA</td>
</tr>
<tr>
<td>Technical data on load sensing steering unit with amplification</td>
<td>OSPU</td>
</tr>
</tbody>
</table>

For technical information on individual variants, please contact the Danfoss Sales Organization.

OSPU general information

OSPU is a flow amplifying, load sensing steering unit, available with amplification factors 2, 3, or 4. OSPU is a cost-attractive dual displacement steering unit alternative for heavier applications needing reduced displacement for emergency (manual) steering, such as tractors, backhoe loaders, telehandlers, and combines.

The OSPU total displacement ranges from 120-500 cc in normal steer mode (amplified). In emergency steer mode the displacement ranges from 60-125 cc/rev. The standard OSPU has fully linear flow characteristic (flow versus rpm).

OSPU is also available in a version with continuous progressive amplification factor. This feature will make a simple “Fast Steer” steering system possible: it enables higher ratio steering flow at higher rpm meaning less turns lock-lock at higher steering speed. This feature is especially attractive on backhoe loaders and small wheel loaders.
OSPU steering unit

The OSPU includes the following main components:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Torque compensator valve</td>
</tr>
<tr>
<td>6</td>
<td>P-check valve</td>
</tr>
<tr>
<td>7</td>
<td>Spool/sleeve set</td>
</tr>
<tr>
<td>8</td>
<td>Gear set</td>
</tr>
<tr>
<td>9</td>
<td>LS copy valve</td>
</tr>
<tr>
<td>11</td>
<td>Housing</td>
</tr>
<tr>
<td>12</td>
<td>Neutral spring package</td>
</tr>
<tr>
<td>13</td>
<td>Cross pin</td>
</tr>
<tr>
<td>14</td>
<td>Cardan shaft</td>
</tr>
<tr>
<td>15</td>
<td>Distributor plate</td>
</tr>
<tr>
<td>16</td>
<td>End cover with screws</td>
</tr>
</tbody>
</table>
**Function**

**Function, OSPU LS**

### Designation of OSPU elements

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Shock valves</td>
</tr>
<tr>
<td>2</td>
<td>Suction valves</td>
</tr>
<tr>
<td>3</td>
<td>Torque compensator valve</td>
</tr>
<tr>
<td>4</td>
<td>Emergency steering check valve</td>
</tr>
<tr>
<td>5</td>
<td>Pilot pressure relief valve</td>
</tr>
<tr>
<td>6</td>
<td>P-check valve</td>
</tr>
<tr>
<td>7</td>
<td>Spool/sleeve set: including bleeds, A1-A5, Au and Ad</td>
</tr>
<tr>
<td>8</td>
<td>Gear set</td>
</tr>
<tr>
<td>9</td>
<td>LS copy valve</td>
</tr>
<tr>
<td>10</td>
<td>Priority valve, dynamic type</td>
</tr>
</tbody>
</table>

**OSPU Danfoss symbols**

The OSPU is a Load Sensing Dynamic steering unit type with built in amplification function in the spool/sleeve set (7).

The main circuit is identical to other OSP LS steering units like e.g. OSPC: Bleeds of spool/sleeve set (7): A1-A5 and Ad plus gear set (8).

Additionally the OSPU includes an amplification circuit containing the Au bleed in spool/sleeve/set (7) and a torque compensator valve (3).

Furthermore the OSPU contains a LS copy valve (9). This valve is needed to be able to use dynamic priority valve.

### Neutral position

The drain bleed Ad of spool/sleeve set (7) is open to tank. All other bleeds, A1-A5 and Au are closed.

When the pump runs, the dynamic flow from the LS line of the priority valve (10) will stream across the LS copy valve (9) to tank.
Steering with normal pump supply

When turning the steering wheel, the drain bleed Ad will be closed, and all other bleeds, A1-A5 and Au will open in parallel. Opening area will depend on steering wheel speed. Pressure in LS line will rise according to steering pressure demand: pressure will be transmitted across the LS copy valve (9) and the priority valve (10) will supply the requested oil flow and pressure to P port of the steering unit.

The pump oil flow will be split between the parallel connected inlet bleeds: A1 and Au. The oil flow across A1 is determined by the size of the gear set (8) and the steering wheel speed. The oil flow across Au is determined by the opening area of Au. The amplification will be constantly independent on steering speed under normal steering conditions: pump flow and standby pressure must be within demand for the requested steering speed.

The function of the torque compensator valve (3) is to assure constant amplification: in case pressure drop may occur across the gear set (8) e.g. due to dirt particles entering the steering unit, the torque compensator valve (3) will generate the same pressure drop for the amplified oil.

When steering against end stroke, the steering pressure will be limited by the pilot pressure relief valve (5): pressure in LS line will be limited and so the priority valve will lead the pump flow to EF port of the priority valve and on to tank.

Emergency steering: Failing pump supply

When pressure in P-port does not match the steering pressure requested, the gear set (8) will act as a hand pump, when torque is applied to the steering wheel. The displacement for emergency steering is purely determined by the size of the gear set (8). The check valve function of the torque compensator valve (3) will prevent back stream of oil across the Au bleed.

When pump flow becomes insufficient, the emergency steering check valve (4) will open and oil will be led to the gear set (8) from return side of cylinder, additional flow will be sucked from tank as needed.
Load sensing dynamic
In load sensing steering systems both the steering system and the working hydraulics can be supplied from just one pump. In addition LS steering systems make energy saving possible by the use of an LS pump.

Load sensing steering units have a connection for load sensing (LS), so that a load pressure signal can be directed via the steering unit to a Danfoss priority valve and/or an LS pump. The load sensing signal controls the oil flow from the priority valve (and/or the LS pump) to the steering unit.

OSPU are all of load sensing dynamic type and require load sensing dynamic priority valves and/or load sensing variable displacement pumps with “dynamic” control. Load sensing dynamic steering systems have a constant oil flow in the LS connection direction steering unit also when the steering unit is in neutral position.

Non-reaction
With non-reaction steering units there is no corresponding movement of the steering wheel when the driver is not steering the vehicle.

Amplification, linear
The displacement is constant over the entire range of normal steering speed, 0-100 rpm.

Amplification, progressive
The displacement varies over the entire range of normal steering speed, 0-100 rpm.
OSPU LS: Steering unit load sensing with integrated valve functions
## Technical data

**Displacement, amplification, flow and pressure: OSPU LS**

For common data: Look in sub catalog: “General Steering Components”

<table>
<thead>
<tr>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>OSPU 70/140 LS</td>
<td>2</td>
<td>70 [4.27]</td>
<td>140 [8.54]</td>
<td>14 [3.70]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSPU 70/280 LS</td>
<td>4</td>
<td>70 [4.27]</td>
<td>280 [17.09]</td>
<td>28 [7.40]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSPU 100/300 LS</td>
<td>3</td>
<td>100 [6.10]</td>
<td>300 [18.31]</td>
<td>30 [7.93]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSPU 100/400 LS</td>
<td>4</td>
<td>100 [6.10]</td>
<td>400 [24.41]</td>
<td>40 [10.57]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Rated flow at 100 rpm steering speed.
† Any OSPU can withstand 210 bar in max. system pressure. However OSPU w. small gear wheel set and high pressure will have relatively high slippage values (slippage will be on level with e.g. OSPC with same gear wheel set)

### A minimum standby pressure

(P-LS) is needed to achieve the defined amplification characteristic (linear or progressive) up to a certain maximum steering speed wanted.

<table>
<thead>
<tr>
<th>Steering unit</th>
<th>Amplification</th>
<th>Min. standby pressure*, P-LS bar [psi]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>For max steering speed 80 rpm</td>
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<tr>
<td>OSPU 60/120 LS</td>
<td>2</td>
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<tr>
<td>OSPU 60/180 LS</td>
<td>3</td>
<td>7</td>
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<td>OSPU 60/240 LS</td>
<td>4</td>
<td>9</td>
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<tr>
<td>OSPU 70/140 LS</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>OSPU 70/210 LS</td>
<td>3</td>
<td>8</td>
</tr>
<tr>
<td>OSPU 70/280 LS</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>OSPU 80/160 LS</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>OSPU 80/240 LS</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>OSPU 80/320 LS</td>
<td>4</td>
<td>13</td>
</tr>
<tr>
<td>OSPU 100/200 LS</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>OSPU 100/300 LS</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>OSPU 100/400 LS</td>
<td>4</td>
<td>15</td>
</tr>
<tr>
<td>OSPU 125/250 LS</td>
<td>2</td>
<td>10</td>
</tr>
</tbody>
</table>

*Rated flow at 100 rpm steering speed.
† Any OSPU can withstand 210 bar in max. system pressure. However OSPU w. small gear wheel set and high pressure will have relatively high slippage values (slippage will be on level with e.g. OSPC with same gear wheel set)
**Technical Information**

**OSPU Steering Unit**

**Technical data**

<table>
<thead>
<tr>
<th>Steering unit</th>
<th>Amplification</th>
<th>Min. standby pressure*, P-LS bar [psi]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>For max steering speed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>80 rpm</td>
</tr>
<tr>
<td>OSPU 125/375 LS</td>
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<td>11</td>
</tr>
<tr>
<td>OSPU 125/500 LS</td>
<td>4</td>
<td>18</td>
</tr>
</tbody>
</table>

*Values valid for viscosity range 12-80 mm²/s [66-370 SUS] and temperature range of 30-60°C [86-140°F].

Missing values will be added when available.

**Amplification characteristics**

OSPU with linear amplification has constant displacement independent on steering speed inside normal steering speed range, 0-100 rpm, e.g. OSPU 100/200 LS “Linear” has 200 cm³/rev.

In OSPU with progressive amplification the displacement varies over the entire range of normal steering speed, 0-100 rpm. OSPU 100/200 LS “Progressive” has the following nominal displacements:

- 115 cc/rev at >0—~5 rpm: 15% amplification
- 150 cc/rev at ~50 rpm: 50% amplification
- 200 cc/rev at ~100 rpm: 100% amplification

Metered out flow for OSPU 100 shown with amplification factors possible.

**Emergency steering: Pressure capability**

The steering unit can be used as a hand pump if oil supply to the steering unit fails.

Below graph can be used as a design guide to choose the needed size of gear set for the OSPU:

- Determine steering pressure required for the emergency steering maneuver and draw a horizontal line from this value for Pressure
- Determine manual input torque allowed on steering wheel and draw a vertical line from this value for Torque
- The largest steering unit displacement suitable is the first angled line to the left of intersection. An example is shown w. 25 bar [362 psi] pressure demand, and 38 Nm [336 lbf-in] allowed manual input torque: OSPU 80/xxx, OSPU 70/xxx or OSPU 60/xxx are suitable to build up enough pressure for emergency steering.
Technical data

**OSPU LS emergency steer curves**

Only physical testing on the vehicle in question can verify if the demands for emergency steer capability will be fulfilled.

Valve functions in OSPU LS steering units

All OSPU have the following valves built in as standard:
- Emergency steering check valve (4)
- P-check valve (7)
- Check valve function in LS:
  - LS copy valve (5)
- Suction valves (2)
- Torque compensator valve (3)

OSPU can have built in the following valves (option):
- Pilot pressure relief valve (6)
- Shock valves (1)
Technical data

Pilot pressure relief valve; \( (P - T, Q_p) \) characteristic

The pilot pressure relief valve protects the steering unit against excessive pressure. The pilot pressure relief valve in the OSPU LS steering unit together with the priority valve limits the maximum steering pressure \( P - T \). The pilot pressure relief valve is set at an oil flow to the priority valve of 25 \( l/min [6.60 \text{ US gal/min}] \).

For OSPU Load Sensing dynamic steering units, the setting values are valid at a dynamic flow of 1.1 \( l/min [0.29 \text{ US gal/min}] \)

Setting tolerance:
\[ \begin{align*}
\leq 170 \text{ bar} [2645 \text{ psi}] & : \text{ rated value } +5 \text{ bar} [72.5 \text{ psi}], \\
> 170 \text{ bar} [2645 \text{ psi}] & : \text{ rated value } +10 \text{ bar} [145 \text{ psi}].
\end{align*} \]

\[ A = 170 + \frac{5}{3} \text{ bar} [2465 +73 \text{ psi}] \]
\[ B = 140 + \frac{5}{3} \text{ bar} [2030 +73 \text{ psi}] \]

Shock valves

The shock valves protect the steering unit and reduce external forces on the steering cylinder by limiting the pressure difference from \( L \) to \( T \) and from \( R \) to \( T \).

The shock valves are set at 3 \( l/min [0.792 \text{ US gal/min}] \)

At higher flow pressure peaks may occur.

The shock valves are of the direct acting type, so they react very quickly.

Setting tolerance: rated value +20 \( \text{ bar} \) [290 \( \text{ psi} \)].

Suction valves

The suction valves allow oil suction to avoid cavitation in the steering cylinder. To provide correct suction, a back pressure valve must be fitted in the tank line from the steering unit.

Generally Danfoss recommend a back pressure of 2 \( \text{ bar} \) [29 \( \text{ psi} \)], but on vehicles with strong self-straightening tendencies and on articulated steered vehicles, we recommend 5-10 \( \text{ bar} \) [72.5 - 145 \( \text{ psi} \)]. For further advice, please contact the Danfoss Sales Organisation.

A connection which incorporates a check valve must be established to allow oil flow to by-pass the back pressure valve (and filter) from the tank to steering unit. See OSPU LS diagram examples.
Check valve in P

The check valve in the P connection of the steering unit protects the driver against steering wheel jerks. The check valve prevents oil from flowing backwards into the pump line when steering against a high pressure on the cylinder side. The pressure drop across the check valve is indicated on the following graph, which assumes the use of port adaptors with 11 mm [0.43 in] minimum bore.

Check valve function in LS

The LS copy valve of OSPU protects the driver against steering wheel jerks. The LS copy valve prevents oil from flowing backwards into the LS line to the priority valve when steering against a high pressure on the cylinder side.
Technical data

Port thread versions for OSPU LS

**B:** G port w. spot face (LS)
  L: DIN 3852-2 - G ¼

**D:** G ports w. spot face (P, T, L, R)
  N: DIN 3852-2 - G ½

**E:** Metric port w. spot face and O-ring chamfer (LS)
  O: ISO 6149-1 - M12 x 1.5

**F:** Metric ports w. spot face and O-ring chamfer (P, T, L, R)
  P: ISO 6149-1 - M18 x 1.5
Technical data

**H**: UNF ports w. O-ring chamfer (LS)
- ISO 11926-1
- 7/16-20 UNF O-ring boss port

**R**: ISO 11926-1
- 7/16-20 UNF O-ring boss port

**I**: UNF ports w. O-ring chamfer (P, T, L, R)
- ISO 11926-1 ¾-16UNF O-ring boss port
OSPU Steering Unit

Dimensions

Technical Information

OSPU LS

European version:
A: G ½ w. spot face (G, DIN 3852-2) 15 mm [0.59 in] deep
or
M18 x 1.5 ISO 6149-1, 15 mm [0.59 in] deep
B: M10 x 1.5, 16 mm [0.63 in] deep
LS: G 1/4 w. spot face (G, DIN 3852-2) 12 mm [0.47 in]
depth or
M12 x 1.5 ISO 6149-1, 11.5 mm [0.45 in] deep

US version:
A: 3/4 - 16 UNF O-ring boss ISO 11926-1 15 mm [0.59 in]
depth
B: M 10 × 1.5, 16 mm [0.63 in] deep,
LS: 7/16 - 20 UNF o-ring boss ISO 11926-1, 11.5 mm [0.45
in] deep

<table>
<thead>
<tr>
<th>Type</th>
<th>L1, mm [in]</th>
<th>L2, mm [in]</th>
</tr>
</thead>
<tbody>
<tr>
<td>60/xxx</td>
<td>137 [5.39]</td>
<td>7.8 [0.31]</td>
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<tr>
<td>70/xxx</td>
<td>138 [5.43]</td>
<td>9.1 [0.36]</td>
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<td>10.4 [0.41]</td>
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<td>100/xxx</td>
<td>142 [5.59]</td>
<td>13.0 [0.51]</td>
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<tr>
<td>125/xxx</td>
<td>145 [5.71]</td>
<td>16.2 [0.64]</td>
</tr>
</tbody>
</table>
Order specifications and weights

Order specifications

### Variants, OSPU

<table>
<thead>
<tr>
<th>Gear set, displacement</th>
<th>cm³/rev</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>60</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Amplified displacement*</th>
<th>cm³/rev</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>120, 180, 240</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Spool/sleeve set Type</th>
<th>LS: Load Sensing dynamic, non-reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Amplification Characteristic</th>
<th>Linear</th>
<th>P: Progressive (only available w. amplification factor &quot;2&quot;)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Housing† Thread M: Metric G</th>
<th>U: UNF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Relief valve Bar | 100 – 210 (N for no relief valve wanted) |
| Shock valves Bar | 160 – 260 (N for no shock valves wanted) |

* Amplification factors available, linear: 2, 3 or 4
† Housing, threads:

| Metric, ISO 6149-1 M 18 x 1.5 – O\(^\circ\) + S** | M 12 x 1.5 – O\(^\circ\) + S** |
| G, DIN 3852-2 G \(\frac{1}{2}\) - S** | G \(\frac{1}{4}\) - S** |
| UNF O-ring boss ISO 11926-1 \(\frac{3}{4}\) - 16 UNF – O\(^\circ\) | 7/16 - 20 UNF – O\(^\circ\) |

O\(^\circ\) O-ring chamfer on port connection
S** Spot face around port connection

All OSPU’s have the following valves included:
- Manual Steering Check Valve
- Inlet Check Valve in P-port
- Check Valve function in LS
- Suction Valves in cylinder ports
- Torque Compensator Valve

### Weights

<table>
<thead>
<tr>
<th>Type OSPU</th>
<th>Weight kg [lb]</th>
</tr>
</thead>
<tbody>
<tr>
<td>60/xxx</td>
<td>5.3 [11.47]</td>
</tr>
<tr>
<td>70/xxxx</td>
<td>5.4 [11.90]</td>
</tr>
<tr>
<td>80/xxx</td>
<td>5.5 [12.13]</td>
</tr>
<tr>
<td>100/xxx</td>
<td>5.6 [12.35]</td>
</tr>
<tr>
<td>125/xxx</td>
<td>5.8 [12.79]</td>
</tr>
</tbody>
</table>
Specify your OSPU according to the destinations as in the example underneath the empty scheme:

<table>
<thead>
<tr>
<th>Code numbers</th>
<th>Specifications according to above description format</th>
</tr>
</thead>
<tbody>
<tr>
<td>11131317</td>
<td>OSPU 70 210 LS L M 170 230 PB</td>
</tr>
</tbody>
</table>
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