For more than 40 years, Danfoss has been developing state-of-the-art components and systems for mobile machinery used in off-highway operations around the world.

We have become a preferred supplier by offering the best of what really matters: The hardware inside your vehicle application.

H1 - our new generation of servo-controlled hydrostatic pumps and bent axis variable motors is no exception.

The H1 product is built around an advanced control and available in a wide range of displacements. It is designed for quality and reliability and offers expanded functionality, greater total efficiency, and easy installation.

All H1 control and sensor options are PLUS+1® Compliant. PLUS+1® allows you to rapidly develop and customize electronic machine control. It opens up the future by combining machine controls and diagnostics in an integrated operating network.

Features

**Designed for quality and reliability**
- Proven and optimized 9 piston rotating group
- Single piece housing
- Electric components with IP67 & IP69K rating

**Installation and packaging benefits**
- Optimized for shortest length
- Standardized connector interface
- Integrated loop flushing device
- Radial or axial high pressure ports

**Greater total efficiency**
- Minimized losses
- Improved at high flow conditions

**Wide range of controls**
- Electric Two-position Control
- Electric Proportional Control
- Hydraulic Two-position Control
- Hydraulic Proportional Control
- Pressure Compensator Override
- Proportional Pressure Compensator Override
- Brake Pressure Defeat option
- Common controls across the entire motor family
- PLUS+1® Compliant control and sensor options

**Expanded functionality**
- Zero degree capability together with a high performance 32 degree maximum angle
- Enhanced control functions with proportional controls de-energized at minimum or maximum displacement
- Optional integrated speed sensor with:
  - Dual redundant speed sensing
  - Direction indication
  - Temperature sensing
  - Wire fault detection

Comprehensive technical literature online at powersolutions.danfoss.com
**Technical specifications**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>SAE ISO 3019/1</th>
<th>DIN ISO 3019/2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>34.8 kg (76.9 lb)</td>
<td>34.4 kg (76.0 lb)</td>
</tr>
<tr>
<td><strong>Output speed rated</strong></td>
<td>Max. displacement 3200 min⁻¹ (rpm)</td>
<td>Min. displacement (6°) 5300 min⁻¹ (rpm)</td>
</tr>
<tr>
<td></td>
<td>0° displacement 5950 min⁻¹ (rpm)</td>
<td></td>
</tr>
<tr>
<td><strong>Max. output speed</strong></td>
<td>Max. displacement 4100 min⁻¹ (rpm)</td>
<td>Min. displacement (6°) 6600 min⁻¹ (rpm)</td>
</tr>
<tr>
<td></td>
<td>0° displacement 7200 min⁻¹ (rpm)</td>
<td></td>
</tr>
<tr>
<td><strong>System pressure</strong></td>
<td>Working 450 bar [6527 psi]</td>
<td>Maximum 480 bar [6960 psi]</td>
</tr>
<tr>
<td></td>
<td>Min. low loop 7.5 bar [109 psi]</td>
<td></td>
</tr>
<tr>
<td><strong>Case pressure</strong></td>
<td>Rated 3 bar [44 psi]</td>
<td>Max. 5 bar [73 psi]</td>
</tr>
<tr>
<td></td>
<td>Min. 0.3 bar [4 psi]</td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions**

SAE ISO 3019/1 with Electric proportional control (de-energized = max. displacement)

- Loop flushing valve
- System pressure "A" = "B"
- Gauge port "MA" = "MB" 0.5625-18UNF-2B

DIN ISO 3019/2 with Electric proportional control (de-energized = min. displacement)

- Loop flushing valve
- System pressure "A" = "B"
- Gauge port "MA" = "MB" 0.5625-18UNF-2B

Cartridge with Electric two-position control (de-energized = min. displacement)
Pressure compensator override. Brake pressure defeat

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