H1 Axial Piston Single Pump
Size 210/250 cm³
### Revision history

#### Table of revisions

<table>
<thead>
<tr>
<th>Date</th>
<th>Changed</th>
<th>Rev</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 2017</td>
<td>Updated to Engineering Tomorrow design. NFPE new gen. update</td>
<td>0301</td>
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</table>
H1 Pumps Introduction

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.

The H1 range 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.
H1 210/250 Single Pumps Features

**Designed for quality and reliability**
- One design concept
- Single piece swash plate

**Installation and packaging benefits**
- Length optimized pump
- Minimum one clean side
- Higher corner HP / package size ratio
- Standardized connector interface
- Expanded functionality through PLUS+1®

**Wide range of controls**
- Electro-hydraulic controls:
  - Electrical Displacement Control (EDC)
  - Non-Feedback Proportional Electric (NFPE)
- Automotive Control (AC)
- Fan Drive Control (FDC)
- Manual Displacement Control (MDC)
- Common control across entire family

**Expanded functionality**
- PLUS+1® Compliant control and sensor options

**Greater total efficiency**
- Minimized control losses
- Improved charge circuit
- Lower control pressure for less power consumption

Comprehensive technical literature online at powersolutions.danfoss.com
H1 210/250 Single Pumps Detailed description

Technical Specifications

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Size 210</th>
<th>Size 250</th>
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<tbody>
<tr>
<td>Displacement cm³ [in³]</td>
<td>211.5 [12.91]</td>
<td>251.7 [15.36]</td>
</tr>
<tr>
<td>Input speed min⁻¹ (rpm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td>Rated</td>
<td>2600</td>
<td></td>
</tr>
<tr>
<td>Maximum</td>
<td>2800</td>
<td></td>
</tr>
<tr>
<td>System pressure bar [psi]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. working</td>
<td>450 [6525]</td>
<td></td>
</tr>
<tr>
<td>Maximum</td>
<td>480 [6962]</td>
<td></td>
</tr>
<tr>
<td>Min. low loop</td>
<td>10 [150]</td>
<td></td>
</tr>
<tr>
<td>Case pressure bar [psi]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated</td>
<td>3.0 [40]</td>
<td></td>
</tr>
<tr>
<td>Maximum</td>
<td>5.0 [75]</td>
<td></td>
</tr>
<tr>
<td>Weight (without PTO and filter), kg [lb]</td>
<td>163 [360]</td>
<td></td>
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</tbody>
</table>

*Pressures above max. working pressure requires Danfoss approval.

Schematic

[Diagram of the H1 Axial Piston Single Pump 210/250 cm³]
H1 210/250 Single Pumps Detailed description

A, B – System ports, Ø38 – 450 bar, split flange boss per ISO 6162
S – Charge inlet port, Ø38 – 450 bar, split flange boss per ISO 6162
MA, MB – System gauge ports, 9/16-18
M3, M6 – Charge gauge port, 9/16-18
All ports per ISO 11926-1; max. clearance dia for fitting.

M4, M5 – Servo gauge ports, 7/16-20
M14 – Case gauge port, 7/16-20
L2, L4 – Case drain ports, 1 5/8-12
C1, C2 – Connector DEUTSCH

Detailed technical information are available in the Technical Information H1 Axial Piston Single Pumps, Size 210/250, BC00000207.
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