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.

Features

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

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

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

**Installation and packaging benefits**
- Length optimized pump
- Minimum one clean side
- Higher corner HP / package size ratio
- Standardized connector interface

**Expanded functionality**
- PLUS+1® Compliant control and sensor options
- Integral filtration available with integrated filter bypass sensors and switch

For more information see the H1P 069/078 Axial Piston Single Pumps Technical Information, BC00000058.

Comprehensive technical literature is online at www.danfoss.com
Technical Specifications

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Size 069</th>
<th>Size 078</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement cm³ [in³]</td>
<td>69.2 [4.22]</td>
<td>78.1 [4.77]</td>
</tr>
<tr>
<td>Input speed min⁻¹ (rpm)</td>
<td>Minimum 500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rated 3500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum 4000</td>
<td></td>
</tr>
<tr>
<td>System pressure bar [psi]</td>
<td>Max. working 450 [6527]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum 480 [6962]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Min. low loop 10 [145]</td>
<td></td>
</tr>
<tr>
<td>Case pressure bar [psi]</td>
<td>Rated 3.0 [44.0]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum 5.0 [73.0]</td>
<td></td>
</tr>
<tr>
<td>Weight (without PTO and filter), kg [lb]</td>
<td>56 [123]</td>
<td></td>
</tr>
</tbody>
</table>

*Pressures above max. working pressure requires Danfoss approval.

Schematic

A/B system ports: Ø25.4 – 450 bar, Split flange boss ISO 6162
MA/MB (system), M3, M6 (charge) gauge ports per ISO 11926-1: 7/16–18
M4, M5 (servo), M14 (case) gauge ports per ISO 11926-1: 7/16–20
L2, L4 – Case drain ports per ISO 11926-1: 1 1/16–12

E/F – Charge filtration ports per ISO 11926-1: 7/16–14
S – Charge inlet port per ISO 11926-1: 1 1/16–12
1 – Case pressure port per ISO 11926-1: 7/8–14
2 – Connector DEUTSCH DT04-2P, to be paint free

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