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 M46, along with the high-current control is designed for quality and reliability and offers expanded functionality, greater total efficiency, and easy installation.

The M46 high-current control option is 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 Durability and Flexibility**
- Optimized for medium duty applications
- Single piece housing/end cap
- Efficient axial piston design

**Installation and Packaging benefits**
- Worldwide Support
- Standard connector interfaces
- Compact, optimized packaging
- Low noise
- Single, bolt together tandem configurations

**Wide Range of Options**
- Optional integrated charge pump
- High pressure and charge relief valve
- Displacement limiters
- Variety of input shafts
- Variety of auxiliary mounting pads

**Wide Range of Options**
- PLUS+1® Compliant control
- Consistent, flat and repeatable deadband
- Easier system compatibility
- Improved controllability

Comprehensive technical literature online at powersolutions.danfoss.com
### Technical Specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>Unit</th>
<th>M46 Single Pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>cm³/rev [m³/rev]</td>
<td>45.9 [2.80]</td>
</tr>
<tr>
<td>Weight</td>
<td>kg [lb]</td>
<td>33 [73]</td>
</tr>
<tr>
<td>Input Speed</td>
<td>Minimum, min⁻¹ (rpm)</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>Rated</td>
<td>4000</td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>4100</td>
</tr>
<tr>
<td>System Pressure</td>
<td>Max. Working Pressure, bar [psi]</td>
<td>345 [5000]</td>
</tr>
<tr>
<td></td>
<td>Max. pressure</td>
<td>385 [5585]</td>
</tr>
<tr>
<td></td>
<td>Min. Low Loop</td>
<td>10 [145]</td>
</tr>
<tr>
<td>Control Pressure</td>
<td>Minimum @ corner power, bar [psi]</td>
<td>21.5 [312]</td>
</tr>
<tr>
<td>Case Pressure</td>
<td>Continuous, bar [psi]</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum (cold start), bar [psi]</td>
<td>5.2 [75]</td>
</tr>
</tbody>
</table>

### Dimensions

- **Bypass Valve (full open at two revolutions)**
  - S/8 inch hex

- **System Gauge Port A**
  - ISO 11926-1 9/16-18
  - 19.5 ± 2.5
  - From remote filter
  - ISO 11926-1 7/8-14

- **System Gauge Port B**
  - ISO 11926-1 9/16-18
  - 19.5 ± 2.5

- **Control Solenoid Connector C2**
  - Deutsch DT04-2F
  - 193.5 ± 2.5
  - To remote filter
  - ISO 11926-1 7/8-14
  - System Gauge Port B
  - ISO 11926-1 9/16-18

- **Control Manual Override C1**
  - Depressing the plunger mechanically moves the control spool. Actuation allows full stroke pump response as per coil and rotation dependent control logic.

- **Case Gauge Port**
  - ISO 11926-1 7/16-20
  - 19.5 ± 2.5
  - 80.8 ± 1.5

- **Servo Gauge Port M5**
  - ISO 11926-1 9/16-18
  - 193.5 ± 2.5
  - 79.8 ± 1.5

- **Servo Gauge Port M4**
  - ISO 11926-1 9/16-18
  - 193.5 ± 2.5
  - 73 ± 1.5

- **Case Outlet**
  - ISO 11926-1 1-1/16-12
  - 193.5 ± 2.5

### Schematic

- **Control Solenoid Connector C1**
  - Deutsch DT04-2F

- **Case Outlet**
  - ISO 11926-1 1-1/16-12
  - 193.5 ± 2.5

- **Charge Pump Inlet**
  - ISO 11926-1 1-5/16-12
  - 193.5 ± 2.5

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