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

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 [in³/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 [50000]</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)
5/8 inch hex

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 1-7/16-20
Ø21 max. clearance dia. for fitting

Control manual override C2
Depressing the plunger mechanically moves the control spool. Actuation allows full stroke pump response as per coil and rotation dependent control logic

System Port A
ISO 11926-1 9/16-18

System Gauge Port A
ISO 11926-1 7/8-14

To remote filter
ISO 11926-1 7/8-14

From remote filter
ISO 11926-1 7/8-14

Control Solenoid Connector C3
Deutsch DTe04-2P

Servo Gauge Port M5
ISO 11926-1 9/16-18

Servo Gauge Port M4
ISO 11926-1 9/16-18

Case outlet (alternate)
ISO 11926-1 1-5/16-12

Splined data
Number of teeth: 15
Pitch fraction: 16/32
Pressure angle: 30°
Type of fit: ANSI B92.101970 Class S

Oil inlet
Charge Pump Inlet
ISO 11926-1 1-1/16-12

Control Solenoid Connector C1
Deutsch DTe04-2P

Case Outlet
ISO 11926-1 1-1/16-12

Charge Pump Port
ISO 11926-1 1-1/16-12

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