## Revision history

<table>
<thead>
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<th>Date</th>
<th>Changed</th>
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<tr>
<td>January 2016</td>
<td>Technical data corrected</td>
<td>0304</td>
</tr>
<tr>
<td>May 2014</td>
<td>Code number changed</td>
<td>CC</td>
</tr>
<tr>
<td>Mar 2014</td>
<td>Minor updates</td>
<td>CB</td>
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<tr>
<td>Feb 2014</td>
<td>Dimensions drawings updated</td>
<td>CA</td>
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<tr>
<td>Feb 2014</td>
<td>Dimensions drawings updated</td>
<td>BA</td>
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<tr>
<td>Feb 2014</td>
<td>First version - DITA CMS</td>
<td>AA</td>
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</table>
## Technical Information

### VMR Series 2 Orbital Motor

### Contents

#### A wide range of Orbital Motors
- Characteristic, features and application areas of Orbital Motors...
- Characteristic features of Danfoss Orbital Motors...
- Technical features of Danfoss Orbital Motor...
- The Danfoss Orbital Motors are used in the following application areas:
- Survey of literature with technical data on Danfoss Orbital Motors...

#### Data survey
- Introduction...
- VMR features...

#### Speed, torque and output
- Speed, torque and output...

#### Versions
- Versions and code numbers...

#### Technical data
- Technical data for VMR...

#### Shaft seal
- VMR with High Pressure Shaft Seal (HPS)...

#### Pressure drop
- Pressure drop in motor...

#### Oil flow
- Oil flow in drain line...
- Direction of shaft rotation...

#### Shaft load
- Permissible shaft load...

#### Shaft
- Shaft version...

#### Port
- Port thread versions...
- Manifold mount VMR...

#### Dimensions, VMR European version, cyl. 25 mm shaft, A2 flange and side ports
- VMR European version, cyl. 25 mm shaft, A2 flange...

#### Dimensions, VMR, cyl. 1 inch version, A2 flange and side ports
- VMR, cyl. 1 inch version, A2 flange...

#### Dimensions, VMR SAE version, 1 inch splined shaft, A2 flange and side ports
- VMR SAE version, 1 inch splined shaft, A2 flange...

#### Dimensions, VMR SAE version, cyl. 1 inch shaft, Woodruff key, A2 flange and side ports
- VMR SAE version, cyl. 1 inch shaft, Woodruff key, A2 flange...

#### Dimensions, VMR SAE version, 1 inch splined shaft, C flange and side ports
- VMR SAE version, 1 inch splined shaft, C flange...

#### Dimensions, VMR SAE version, cyl. 1 inch shaft, Woodruff key, C flange and side ports
- VMR SAE version, cyl. 1 inch shaft, Woodruff key, C flange...
Danfoss is a world leader within production of low speed orbital motors with high torque. We can offer more than 3,000 different orbital motors, categorised in types, variants and sizes (including different shaft versions).

The motors vary in size (rated displacement) from 8 cm³ [0.50 in³] to 800 cm³ [48.9 in³] per revolution.

Speeds range up to approximate 2,500 min⁻¹ (rpm) for the smallest type and up to approximate 600 min⁻¹ (rpm) for the largest type.

Maximum operating torques vary from 13 N•m [115 lbf•in] to 2,700 N•m [24,000 lbf•in] (peak) and maximum outputs are from 2.0 kW [2.7 hp] to 70 kW [95 hp].

**Characteristic features of Danfoss Orbital Motors**

- Smooth running over the entire speed range
- Constant operating torque over a wide speed range
- High starting torque
- High return pressure without the use of drain line (High pressure shaft seal)
- High efficiency
- Long life under extreme operating conditions
- Robust and compact design
- High radial and axial bearing capacity
- For applications in both open and closed loop hydraulic systems
- Suitable for a wide variety of hydraulics fluids

**Technical features of Danfoss Orbital Motor**

The programme is characterised by technical features appealing to a large number of applications and a part of the programme is characterised by motors that can be adapted to a given application. Adaptions comprise the following variants among others:
A wide range of Orbital Motors

- Motors with corrosion resistant parts
- Wheel motors with recessed mounting flange
- OMP, OMR- motors with needle bearing
- OMR motor in low leakage version
- OMR motors in a super low leakage version
- Short motors without bearings
- Ultra short motors
- Motors with integrated positive holding brake
- Motors with integrated negative holding brake
- Motors with integrated flushing valve
- Motors with speed sensor
- Motors with tacho connection
- All motors are available with black finish paint

The Danfoss Orbital Motors are used in the following application areas:

- Construction equipment
- Agricultural equipment
- Material handling & Lifting equipment
- Forestry equipment
- Lawn and turf equipment
- Special purpose
- Machine tools and stationary equipment
- Marine equipment

Survey of literature with technical data on Danfoss Orbital Motors

Detailed data on all Danfoss Orbital Motors can be found in our motor catalogue, which is divided into more individual subcatalogues:

- General information on Danfoss Orbital Motors: function, use, selection of orbital motor, hydraulic systems, etc.
- Technical data on small motors: OML and OMM
- Technical data on medium sized motors: OMP, OMR, OMH
- Technical data on medium sized motors: DH and DS
- Technical data on medium sized motors: OMEW
- Technical data on medium sized motors: VMP
- Technical data on medium sized motors: VMR
- Technical data on large motors: OMS, OMT and OMV
- Technical data on large motors: TMK
- Technical data on large motors: TMT
- Technical data on large motors: TMTHW
- Technical data on large motors: TMVW

A general survey brochure on Danfoss Orbital Motors gives a quick motor reference based on power, torque, speed and capabilities.
Introduction

By introducing the VMR, Danfoss is introducing an Orbital Motor in the new V-Series. In order to meet the demands for motors that have the right duty cycle and efficiency capabilities for a given function, Danfoss now has 3 Orbital Motor Series:

T-Series – The Highest Torque

Leading performance with a long lifetime makes light work of the heaviest duties. Offering pressure capability up to 350 bar [5076 psi] and high starting torque, the T-Series is the energy-efficient choice for the toughest working environments.

O-Series – The Flexible Choice

The O-Series is flexible beyond compare. Delivering premium power across the board, these motors cover small to large, medium to heavy-duty needs with pressure capability up to 275 bar [3990 psi]. Robust, reliable and designed to fulfill the latest emissions standards.

V-Series – The Core Solution

The V-Series is your quality benchmark in the medium duty market. Based on proven technology, these reliable motors will reduce your overall system costs while adding value to your machine. Perfect for many tasks.

VMR features

• High pressure shaft seal
• Proven orbital motor design
• 3-chamber motor design
• Suitable for medium and low duty
Speed, torque and output

Max. Speed

Max. Torque

Max. Output

Intermittent values
Continuous values

P301 645
Technical Information  VMR Series 2 Orbital Motor

Versions

Versions and code numbers

<table>
<thead>
<tr>
<th>Mounting flange</th>
<th>2 hole oval flange (A2 - flange)</th>
<th>Square flange (C-flange)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spigot diameter</td>
<td>Ø82.5 mm [3.25 in]</td>
<td>Ø44.4 mm [1.75 in]</td>
</tr>
<tr>
<td>Bolt circle diameter (BC)</td>
<td>Ø106.4 mm [4.20 in]</td>
<td>Ø82.5 mm [3.25 in]</td>
</tr>
<tr>
<td>Shaft</td>
<td>Cyl 25 mm, Parallel key DIN 6885</td>
<td>Cyl. 1 in, Parallel key 856 46</td>
</tr>
<tr>
<td>Thread in shaft</td>
<td>M8 18 [0.71] deep</td>
<td>1/4-20 UNC 14 [0.55] deep</td>
</tr>
<tr>
<td>Port size</td>
<td>G1/2</td>
<td>7/8-14 UNF</td>
</tr>
<tr>
<td>Drain port</td>
<td>G1/4</td>
<td>7/16-20 UNF</td>
</tr>
<tr>
<td>European version</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>US version</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Check valve</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Painted Black</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

Code numbers

| VMR 80          | 11174302 | 11174273 | 11174314 | 11174321 | 11174329 | 11174445 | 11174471 | 11174344 |
| VMR 100         | 11174303 | 11174274 | 11174315 | 11174322 | 11174330 | 11174446 | 11174472 | 11174345 |
| VMR 125         | 11174304 | 11174275 | 11174316 | 11174323 | 11174331 | 11174447 | 11174473 | 11174346 |
| VMR 160         | 11174305 | 11174276 | 11174317 | 11174324 | 11174332 | 11174448 | 11174474 | 11174347 |
| VMR 200         | 11174306 | 11174277 | 11174318 | 11174325 | 11174333 | 11174449 | 11174475 | 11174348 |
| VMR 250         | 11174307 | 11174278 | 11174319 | 11174326 | 11174334 | 11174469 | 11174476 | 11174349 |
| VMR 315         | 11174309 | 11174279 | 11174320 | 11174327 | 11174335 | 11174470 | 11174477 | 11174350 |
Technical data for VMR

Technical data for VMR with 25 mm, 1 in cylindrical and 1 in splined shaft

<table>
<thead>
<tr>
<th>Type</th>
<th>Motorsize</th>
<th>VMR 80</th>
<th>VMR 100</th>
<th>VMR 125</th>
<th>VMR 160</th>
<th>VMR 200</th>
<th>VMR 250</th>
<th>VMR 315</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. speed</td>
<td>min⁻¹ [rpm]</td>
<td>cont.</td>
<td>740</td>
<td>590</td>
<td>480</td>
<td>380</td>
<td>300</td>
<td>240</td>
</tr>
<tr>
<td></td>
<td></td>
<td>int.¹</td>
<td>920</td>
<td>750</td>
<td>600</td>
<td>480</td>
<td>370</td>
<td>300</td>
</tr>
<tr>
<td>Max. torque</td>
<td>Nm [lbf•in]</td>
<td>cont.</td>
<td>190 [1680]</td>
<td>240 [2125]</td>
<td>290 [2565]</td>
<td>300 [2655]</td>
<td>300 [2655]</td>
<td>300 [2655]</td>
</tr>
</tbody>
</table>

1) Intermittent operation: the permissible values may occur for max. 10% of every minute.

**Recommendation:**
To assure best motor performance, run motor for approximately one hour at 30% of rated pressure before running at full load.
Shaft seal

VMR with High Pressure Shaft Seal (HPS)

VMR with check valves and drain connection: The shaft seal pressure equals the pressure in the drain line.

VMR with check valves and without drain connected: The shaft seal pressure equals the pressure in the return line + 10 bar [145 psi].

Please check motor pressure according to data under Technical data for VMR.
Pressure drop

Pressure drop in motor

The curve applies to an unloaded motor shaft and an oil viscosity of 35 mm²/s [165 SUS]
Oil flow in drain line

The table shows the max. oil flow in the drain line at a return pressure less than 5-10 bar [75-150 psi].

<table>
<thead>
<tr>
<th>Pressure drop bar [psi]</th>
<th>Viscosity mm²/s [SUS]</th>
<th>Oil flow in drain line l/min [US gal/min]</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 [1450]</td>
<td>20 [100]</td>
<td>2.5 [0.66]</td>
</tr>
<tr>
<td></td>
<td>35 [165]</td>
<td>1.8 [0.78]</td>
</tr>
<tr>
<td>140 [2030]</td>
<td>20 [100]</td>
<td>3.5 [0.93]</td>
</tr>
<tr>
<td></td>
<td>35 [165]</td>
<td>2.8 [0.74]</td>
</tr>
</tbody>
</table>

Direction of shaft rotation
Shaft load

Permissible shaft load

The permissible radial shaft load \( (P_R) \) depends on:
- \( n \) = Speed (min\(^{-1}\))
- \( L \) = Distance from the point of load to the mounting flange (mm, in)

<table>
<thead>
<tr>
<th></th>
<th>( A2)-flange</th>
<th>( C)-flange</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permissible shaft load (( P_R )) - L in mm</td>
<td>( \frac{800}{n} \cdot 150000 \text{ N}^* + 100 + L )</td>
<td>( \frac{800}{n} \cdot 150000 \text{ N}^* + 103 + L )</td>
</tr>
<tr>
<td>Permissible shaft load (( P_R )) - L in inch</td>
<td>( \frac{800}{n} \cdot 1330 \text{ lbf}^* + 3.94 + L )</td>
<td>( \frac{800}{n} \cdot 1330 \text{ lbf}^* + 4.06 + L )</td>
</tr>
</tbody>
</table>

* \( n \geq 200 \text{ min}^{-1} \) [rpm]; \( L \leq 55 \text{ mm} \) [2.2 in]

\( n < 200 \text{ min}^{-1} \) [rpm]; \( > P_{R_{\text{max}}} = 4615 \text{ N} \) [1037 lbf]
Shaft

Shaft version

EU version
A: Cylindrical shaft
25 mm
D: Parallel key
A 8 x 7 x 32
DIN 6885

US version
A: Cylindrical shaft
1 in
F: Woodruff key
1/4 x 1 in
SAE J502

Technical Information  VMR Series 2 Orbital Motor
Shaft

**US version**

G: Splined shaft
1 in
SAE 6B
* Deviates from B.S. 2059 (SAE 6B)
Port

Port thread versions

A: G main ports
G: ISO 228/1 - G1/2

B: UNF main ports
H: 7/8 - 14 UNF O-ring boss port

D: G drain port
E: ISO 228/1 - G1/4

F: UNF drain port
J: 7/16 - 20 UNF O-ring boss port

Manifold mount VMR

European version
Dimensions, VMR European version, cyl. 25 mm shaft, A2 flange and side ports

VMR European version, cyl. 25 mm shaft, A2 flange

C: Drain connection G1/4; Min. 10 [0.39] deep
D: G1/2; Min 15 [0.59] deep
E: M8; 13 [0.51] deep (4 pcs)
Technical Information  VMR Series 2 Orbital Motor

Dimensions, VMR European version, cyl. 25 mm shaft, A2 flange and side ports

Weight and dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>*L&lt;sub&gt;max&lt;/sub&gt; mm [in]</th>
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<td>max 143.1 [5.63]</td>
<td>6.3 [13.89]</td>
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<td>max 156.9 [6.18]</td>
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<td>max 163.9 [6.45]</td>
<td>7.3 [16.09]</td>
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<tr>
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<td>max 172.6 [6.80]</td>
<td>7.7 [16.98]</td>
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Dimensions, VMR, cyl. 1 inch version, A2 flange and side ports

VMR, cyl. 1 inch version, A2 flange

C: Drain connection 7/16-20 UNF; Min. 10 [0.39] deep
D: Port connection 7/8-14 UNF; 16.7 [0.66] deep
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**Dimensions, VMR, cyl. 1 inch version, A2 flange and side ports**

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VMR SAE version, cyl. 1 inch shaft, Woodruff key, A2 flange

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Dimensions, VMR SAE version, cyl. 1 inch shaft, Woodruff key, A2 flange and side ports

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Dimensions, VMR SAE version, 1 inch splined shaft, C flange and side ports

**VMR SAE version, 1 inch splined shaft, C flange**

C: Drain connection 7/16-20 UNF; Min. 10 [0.39] deep
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</tbody>
</table>
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