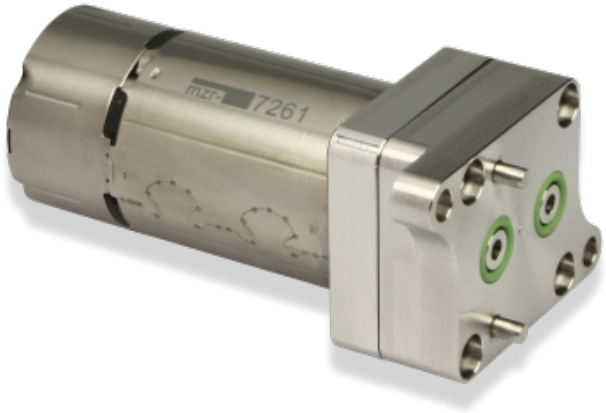
Product information

mzr-7261 · Magnetic hermetic pump series



Description

The micro annular gear pump mzr-7261 is suitable for handling crystallizing, oxygen or moisture sensitive liquids, because the pump has no shaft seal. This functionality is made possible thanks to a liquid-separating cup surrounding the magnetic drive. The compact dimension of this magnetic hermetic pump is achieved by a completely new product design and optimal matching with an integrated speed controller. The pump has a length of 80 mm and a weight of 390 g. The pump handles flow rates from 24 to 288 ml/min with a high precision and low pulsation. The pump is suitable for applications where an avoidance of leakage and a long service life as well as low energy consumption are important requirements. The pump is supplied with a terminal box for speed control and LED status indicator.

Advantages

- Hermetic pump design pump without shaft seal
- Magnetic drive inner magnet system driven by rotating magnetic field
- Integrated controller supply voltage 24 V DC, speed control by analog input 0 – 10 V
- Compact dimensions length 80 mm
- Long service life wear-resistant, ultra-hard materials

Applications

- Fuel cells
- Dosing of AdBlue
- Mobile analytics
- Biotechnology
- Marine technology
- Metering of liquefied gases
- Aerospace industry

Technical data

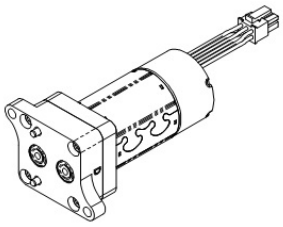
Flow rate	24 - 288 ml/min
Displacement volume	48 µl
Maximum system pressure	15 bar (218 psi) (inlet pressure + differential pressure)
Differential pressure range	0 - 15 bar (218 psi)
Ambient temperature range	-20 ... +65 (-4 ... +149 °F) °C
Liquid temperature range	-15 ... +60 °C (+5 ... +140 °F)
Viscosity range	0.3 - 500 mPas
Velocity range	500 - 6,000 rpm
Fluid connection	manifold assembly M4
Wetted parts	stainless steel 316L, 318LN, ceramics, tungsten carbide Ni-based, epoxy resin; static seals: FPM, optional: EPDM, FFPM
Motor	canned BLDC-motor, 24 V DC, 21 W
Controller	integrated speed controller
Interface	0–10 V
Electrical connection	6-pole connector, Micro-Fit
Dimensions (L x W x H)	approx. 80 x 52 x 36 mm
Weight	approx. 390 g

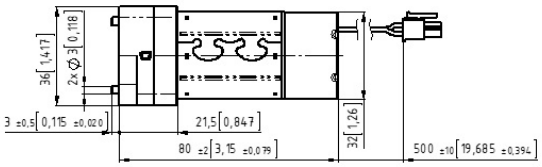
Notice
Even if single parameters are within the indicated performance range of technical data, certain parameter combinations may not be achievable. Single parameters may exceed their indicated performance range under adequate circumstances. For detailed evaluation please contact HNP Mikrosysteme. Actual performance may vary. Specifications are subject to change without notice. This document is subject to change without notice.

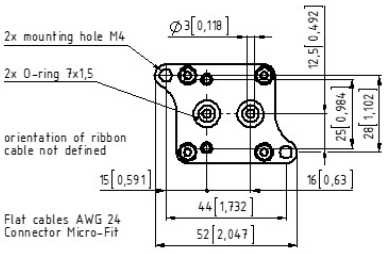
Accessories

- Terminal box S-G61

Dimensions

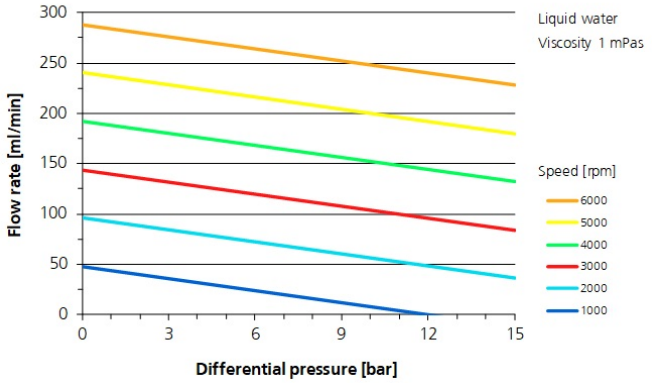




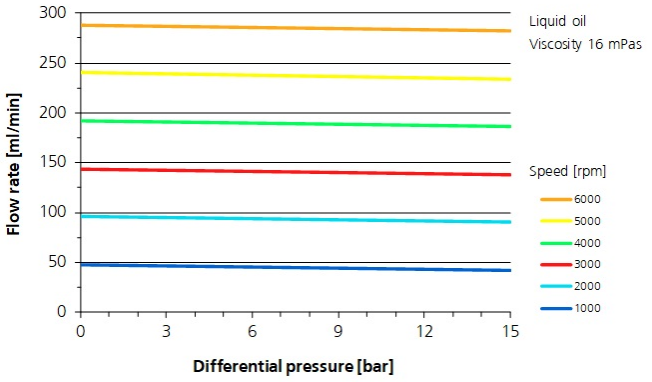


Dimensions are millimeters next to [inches].

Liquid water



Liquid oil



Patents and trademarks

Our products are protected by the following national and international patents: DE 10 2018 129 631.2 B3; EP 3 884 162; CN 113 302 399 B; DE 10 2018 129 633.9 B3; EP 3 884 160; CN 113 272 553 B; DE 10 2018 129 634.7 B3; EP 3 884 527; DE 10 2018 129 635.5 B3; EP 3 762 165; DE 10146 793.1; EP 1 354 135 B1; US 7,698,818 B2; DE 10 2011 051 486 B4; EP 2 726 740 B1; US 9,404,492 B2; CN 103 732 921B; EP 2 640 977 B1; US 10,012,220 B2; CN 103 348 141 B; HK 1 185 648 B.

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