

# Magnetic Hermetic Series **Micro annular gear pump mzr®-7261** Compact hermetic pump for continuous dosage



- 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

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

# **Applications**

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

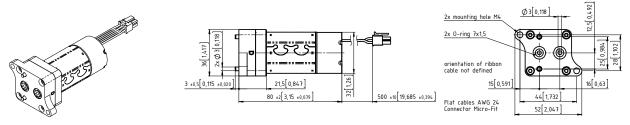
Even if single parameters are within the indicated performance range of technical data, certain parameter combinations may not be achievable. Single parameters may exceed their indicated performance range under adequate circumstances. For detailed evaluation please contact HNP Mikrosysteme. Actual performance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

# **Technical data**

Flow rate	24 – 288 ml/min
Displacement volume	48 µl
Max. system pressure	15 bar (218 psi) (inlet pressure + differential pressure)
Differential pressure range	0 – 15 bar (218 psi)
Liquid temperature range	-15 +60 °C
Viscosity range	0.3 – 500 mPas
Velocity range	500 – 6000 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

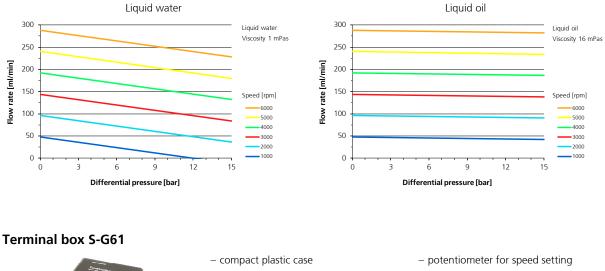
# **Dimensions**



Dimensions are millimeters next to linches).

Subject to technical changes.

### Flow charts



- comes with the micro annular gear pump mzr-7261
- connector for supply voltage 24 V (12 - 28 V DC)
- integrated protective circuit
- analog input 0 10 V for speed setting direction input
- 1 speed-proportional frequency output with 2-color LED

# Item number

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14 06 30 01

magnetic hermetic series pump mzr-7261 with canned BLDC-motor, manifold assembly M4, terminal box S-G61 Fluid connection manifold assembly M4

# Accessories

Liquid supply accessories

tubes, filters etc.

Micro annular gear pumps (and housings) are protected by assigned patents: EP 1115979 B1, US 6,520,757 B1, EP 852674 B1, US 6,179,596 B1, EP 1354135, US 7,698,818 B2. Patents perding DE 10 2011 001 041.6, PCT/B2011/055108, EP 1181 3388.3, US 13/884,088, CN 2011 806 5051.7, HK 13 11 2934.9, DE 10 2011 051 486.4, PCT/EP2012/061514, EP 12 728264.8, US 9,404,492 B2, CN 2012 8003 8326.2. In the US, Europe and China additional patents are pending. mzr<sup>®</sup>, MoDoS<sup>®</sup>, µ-Clamp<sup>®</sup>, HNPM<sup>®</sup> are registered German trademarks of HNP Mikrosysteme GmbH.