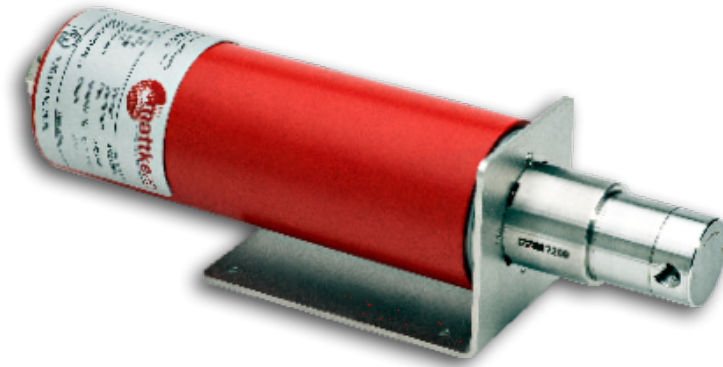


Product information

mzr-7209 Ex · Ex-versions



Description

The micro annular gear pump mzr-7209 Ex covers the flow range 0.048 - 226 ml/min. The highly precise, low pulsation small volume dosage even of non-lubricating liquids or at high pressure, the compact design of this Ex-pump, the broad viscosity range and the small dimensions are unique features of this pump series. The pumps are applied in the field of chemical and process technology and are suitable for both continuous delivery and discrete dosage of watery solutions, solvents, oil and other viscous liquids. Accessories extending the operating parameters of the device are available.

Advantages

- Ex-certification ATEX conform with EU Directive 2014/34/EU
- High dosage precision precision CV < 1 % at low volumes
- Compact dimensions length < 295 mm, including Ex-motor
- Broad viscosity range methanol, solvents, adhesives, grease, gel
- Long service life wear-resistant tungsten carbide
- Low pulsation delivery, low shear stress rotary micro annular gear technology

Technical data

Flow rate	0.048 - 226 ml/min
Smallest dosage volume	30 µl
Displacement volume	48 µl
Differential pressure range	0 – 40 bar (580 psi)
Maximum inlet pressure	5 bar (73 psi), (10 bar (145) *)
Ambient temperature range	0 ... +40 (+104 °F) °C
Liquid temperature range	-5 ... +40 °C (+23 ... +104 °F)
Viscosity range	0.3 - 5,000 mPas
Precision CV	< 1 % (Coefficient of variation CV)
Ex-certification	CE Ex II 2G Ex h IIC T4 Gb
Place of installation	Ex-area zone 1, 2
Wetted parts	stainless steel 316L (1.4404, 1.4435), Ni-based tungsten carbide; shaft seal: graphite-reinforced PTFE, 316L; static seals: FPM, optional: EPDM, FFPM
Motor	DC-motor, 24 V DC, 2 A, 53 W, encoder: 500 counts per turn, type HEDL 5540
Velocity range	1 - 4,700 rpm
Cable length	10 m
Weight	approx. 2,500 g
Remarks	* with optional fluidic seal module, Customized solutions on request.

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

- S-HD-KL
- Heat insulation module
- Double shell heating module
- m zr-Touch Control
- Reservoir Plastic

