

High Performance Series

Model mzs-7205

The micro annular gear pump mzs-7205 rounds off the high performance series with 4.8–288 ml/min in the upper flow range. The highly precise, pulseless low volume dosage even with non-lubricating fluids or at high pressure, the compact design of the pump, the integrated micro-controller, the broad viscosity range and the small measurements are the unique features of this pump series. The pump is applied in the field of production and process technology. The pump is suitable for the continuous and discrete dosage of water, watery solutions, solvents, methanol, oil, lubricants, adhesives, ink and paints as well as other high viscous fluids.



- **high dosage precision**
repeatability better 1%
- **high differential pressures**
achievable even with low viscous fluids
- **compact measurements**
length < 155 mm, controller inclusive
- **broad viscosity range**
methanol, water, solvents, adhesives, grease, gel
- **pulseless delivery**
rotary micro annular gear technology
- **high service life**
wear resistant tungsten carbide
- **precision motor and sophisticated control**
EC-servomotor with integrated micro controller

Technical data

Flow rate	4.8 – 288 ml/min (0.29 – 17.3 l/h)
Smallest dosage volume	5 µl
Displacement volume	48 µl
Operating pressure range	0 – 40 bar (0 – 80 bar *)
Operating temperature range	-5 ... +60 °C (-20 ... +120 °C *)
Viscosity range	0.5 – 20 000 mPas (50 000 mPas *)
Repeatability	< 1 %
Pulsation	< 6 %
Speed range	100 – 6000 rpm (min. 1 rpm *)
Fluidic connections	1/8" NPT internal thread, lateral alternatively M10 x 1.0 on the face
Wetted parts	case: stainless steel 1.4404 (316 L) rotors, shaft, bearings: WC Ni-based shaft seal: graphite reinforced Teflon® static seals: Viton®
Motor	EC-servomotor, 24 V DC, 44 W
Controller	integrated 16-bit microcontroller
Interface	0–10 V, RS-232, 1 digital input/output
Measurements (L x W x H)	155 x 50 x 69 mm
Weight	approx. 1080 g

Customized solutions on request.

* with accessories

Applications

- Chemical processing
- Industrial and plant engineering
- Packaging technology
- Medical and pharmaceutical
- Miniplant technology
- Spray technology
- Dispensing of adhesives
- Inks and paints dosage
- Vacuum applications

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