

Precision Dosing Pump GSP-98ML



The precision dosing pump GSP-98ML is designed for applications related with the production of DVD, CDR (application of dye and protective lacquer or photo resist) as well as for the semiconductor industries and medical applications.

The precision of this pump is 4 μ l.

Main features of the precision dosing pump GSP-98ML

- The pump handles a wide range of media viscosities.
- All parts in contact with the medium are made of highly resistant materials.
- Innovative and integrated valve control:
 - The medium is not stressed, because it does not control the pump.
 - No additional valves outside the pump are needed.
- Easy disconnection of the pump from the drive for cleaning.

Media and pump properties of the precision dosing pump GSP-98ML

Property	Nominal value	Tolerance / specification
Dosing amount	0.01 ... 2 ml	± 0.004 ml
Viscosity	10 ... 500 cps	
Temperature	+4 ... +60 °C	
Hydraulic fluid	Special	50 cps
Medium pressure created by pump	< 0.2 bar	depending on tube length and viscosity
Maximum flow of medium	2 ml/sec	

Materials in contact with the medium in the precision dosing pump GSP-98ML

Part	Material	
Pump membrane	PTFE-IIR compound	Bucar ®
O-ring sealings	EDPM	optional: FFPM
Metal parts	Stainless steel	SU 316 (ISO 1.4435)

Physical properties and environment of the precision dosing pump GSP-98ML

Property	Nominal value	Specification
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Length / width / height	220 / 100 / 120 mm	
Weight	3.8 kg	
Stepper motor torque	0.6 Nm	Standard motor, modified for this application
Ambient temperature for drive	+4 ... +60 °C	
Compressed air for pneumatic functions	3 bar	+ 0.5 bar
Liquid intake and outlet	G 1/8" thread	
Average lifetime	30 • 10 ⁶ pumping cycles	