

Diaphragm Dosing Pump SP-177



The diaphragm dosing pump SP-177 is designed for

Edge cleaning with solvents for CD-R, CDR-DVD-R and DVD-RW.

Application of protective lacquer or photo resist.

Any other application according to the pump specs.

The precision of this pump is 0.1 ml.

Main features of the diaphragm dosing pump SP-177

The pump handles a wide range of media viscosities.

Very compact assembly saving space.

Controlled by time and pressure.

Suck back valve at the outlet.

All parts in contact with the medium are made of highly resistant materials.

Easy disconnection of the pump from the drive for cleaning.

Media and pump properties of the diaphragm dosing pump SP-177

Property	Nominal value	Tolerance / specification
Dosing amount	0.1 ... 12 ml	±0.1 ml depending on timer
Viscosity	10 ... 800 cps	
Temperature	+4 ... +60 °C	
Medium pressure created by pump	< 0.2 bar	depending on tube length and viscosity
Maximum flow of medium	4 ml/sec	depending on tube length and viscosity

Materials in contact with the medium in the diaphragm dosing pump SP-177

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 diaphragm dosing pump SP-177

Property	Nominal value	Specification
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Length / width / height	120 / 60 / 120 mm	
Weight	3.8 kg	
Ambient temperature for drive	+4 ... +60 °C	
Compressed air for pneumatic functions	0.5 - 4.5 bar	
Liquid intake and outlet	R 3/8" (in), R 1/4" (out)	Outlet has conical thread (NPT)
Average lifetime	30 • 10 ⁶ pumping cycles	