

## PIEZO PUMPS

15 ml/min (higher flow rate with double stack)  
Highly inert (PEEK & Perfluoroelastomer FFKM)

### Cartridge type piezo pump

The cartridge type piezo pump is a special line in our piezoelectric micropump series. An integrated magnet mechanism allows the easy and safe changing of cartridges. It is possible to sterilise the cartridge before changing it, which makes these pumps suitable for new applications in analytic systems.

The well-known characteristics of piezo pumps are also valid for this special type.



### MPD-200A



The MPD-200A is a compact driver board. It is a high voltage circuit board, specifically developed for piezoelectric micropumps. It generates the necessary output voltage of 250 Vp-p, 40 Hz to operate the pump from a 5 VDC input voltage.

### MPC-200A



The MPC-200A is a compact controller, which generates the necessary output voltage to operate the piezo pumps. This controller comes with a user-friendly digital display for configuration and is equipped with a memory function.

Customisable to specific requirements (e.g. higher pressure range, different operating mode, higher temperature range, different port connections, ...)

### APP-20KG - Highly Inert

#### DOUBLE PIEZO STACK | OPTIONAL



With highly inert wetted materials such as PEEK and Perfluoroelastomer (FFKM), this small, thin and lightweight piezo pump opens up new possibilities for pumping aggressive media. With the optional double piezo stack, improved values can be achieved in the area of suction and output pressure as well as flow rate.

#### SPECIFICATIONS

	APP-20KG
Flow rate	15 ml/min <i>(higher flow rate with double stack)</i>
Operating pressure	250 mbar <i>(higher pressure with double stack)</i>
Suction load pressure	-10 mbar (Self-priming) <i>(higher suction load pressure with double stack)</i>
Port connection (hose barbs)	OD 2.8 - ID 1.6 L 5.0 mm
Rated voltage	60 - 250 Vp-p 10 - 60 Hz
Wetted materials	PEEK and Perfluoroelastomer (FFKM) (Optional: PPS and FPM)
Ambient- & fluid temperature range	5 - 50°C
Weight	approx. 17 g
Power consumption	32 mW (40 Hz)   48 mW (60 Hz) (double performance using double stack)
Outer dimensions	33.0 x 33.0 x 9.0 mm