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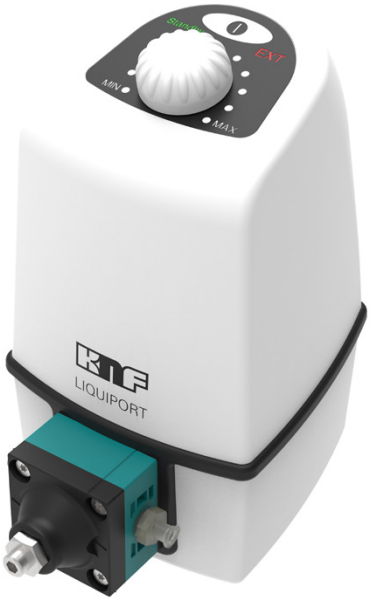
Product Datasheet

# Sartolab® P20 Diaphragm Pump

## The Optimal Fluid Feed Solution for Pressure Filtration

### Overview

The Sartolab P20 Pump is a specialized fluid feed pump optimized for use with Sartolab® P20 pressure filtration devices. Sartorius recommends the Liquiport PML 16980 pump by KNF as the ideal companion for these filters, ensuring efficient sample processing. A key safety feature of this pump is the integrated pressure relief valve, which is pre-set to a maximum of 3.5 bar relative pressure. This valve serves as an essential protective mechanism, automatically activating to relieve pressure in the event of filter blockage that results in pressure buildup, thereby maintaining a secure and reliable operation.



## Key Features

- **Safety Mechanism**
  Equipped with an integrated pressure relief valve for secure operation

- **Compact Design**
  Space-saving with a small footprint for convenient placement

- **User-Friendly Interface**
  Simple controls for hassle-free operation

- **Dry Running Capability**
  Self-priming pump that can operate without fluid

- **Robust Construction**
  - Splashproof with an IP65 rating, suitable for challenging environments
  - Brushless DC motor for less maintenance
  - Integrated overheating protection for longer lifetime

- **Versatile Control**
  Dual-mode functionality, offering both analog and impulse control (RC) capabilities. The RC option includes a dedicated interface for foot switch integration, significantly improving the ease and flexibility of operation.

## Applications

The Sartolab P20 Pump is versatile and can be used in various fields, including:

- Biotechnology and life sciences with Sartolab® P20 devices
- Chemical processing and synthetic organic chemistry
- Pharmacological research and development
- Production and testing of adhesives, glues, and coatings
- Polymer research and polymer surface treatments
- Food technology and research applications
- Handling of detergents, solvents, and other chemical agents

## Liquids-contact Materials

- Pump Head: Durable Polypropylene (PP)
- Diaphragm: PTFE-coated for chemical resistance
- Valves: High-quality FFKM for longevity and reliability

## Technical Specifications

- Power Supply: Universal 100–240 V AC, 50–60 Hz
- Operating Temperatures: Ambient: +5 to +40 °C; Liquid: +5 to +80 °C
- Viscosity Tolerance: Up to 150 cSt for versatile fluid handling
- Energy Efficiency: Low power consumption of 12–16 W
- Protection Class: IP65 for dust and water resistance
- Physical Dimensions: 130 x 99 x 177 mm for easy integration
- Lightweight: Weighs only 0.8 kg for portability
- Connections: Luer-Lock (female) inlet and outlet
- Flow Rate: Adjustable between 0.2 – 1.3 L/min
- Suction Height: Capable of 3 mWg, providing strong suction performance
- Pressure Capability: Maximum set-up operational pressure of 3.5 bar rel.

# Ordering Information

| Description | Order No. |
|---|---|
| Pump | 180MP-1 |
| Tubing Set | 6988094 |
| Content<br>▪ Silicone tubing (Length: 2.5 m, internal diameter: 4 mm, thickness: 1.5 mm)<br>▪ Suction foot: a weight to keep the tubing into the liquid<br>▪ Male Luer-Lock connectors with a blue union nut (5 pieces in a reclosable bag) | |
| Footswitch for impulse start/stop control | 180MP-1B |
| Tripod Holder for secure pump positioning | 180MP-1F |
| Mounting Plate for wall installation | 180MP-1G |



*Tubing Set*



*Footswitch*



*Tripod Holder*



*Mounting Plate*

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