

## Series III Digital Pump



The Series III is an isocratic pump for advanced applications.

### Meets the most demanding applications

The patented low dead volume pulse damper and rapid refill in the Series III make this single-piston pump virtually pulse-free. It meets the requirements of the most demanding detectors.

### Analytical and preparative separations

Flow rates from 0.01 to 10 mL/min. or 0.04 to 40 mL/min. are available.

### Material compatibility for all applications

Available in either traditional 316 stainless steel or biocompatible PEEK™ (polyetherether ketone) for metal-sensitive applications. Choose the material best suited for each application.

### Reduced maintenance

Seal life is dramatically extended by actively flushing the back of the primary seal with a flushing solution. The result is less down-time and reduced operating expenses. The self-flush is automatic; just change the flushing fluid weekly. Seals can be changed in five minutes without tools.

### Easy solvent changes

Autoprime™ one-button purging makes it easy to prime or purge the pump.

### Works in your existing system

The Series III is a direct replacement for many pumps, including Waters, Shimadzu, and other leading brands.

### Performance beyond its price and the security of a 3-year warranty

The use of modern digital stepper motor technology and the proven single-piston design gives the performance of the most expensive pumps at a fraction of their cost. The operating cost is lower too, due to the simplicity of the design and fewer number of parts required. It's so reliable it carries a three-year warranty.



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### Product description

The Series III pump consists of a series of modular subassemblies packaged to meet any isocratic application requirements. The extensive use of digital logic and a micro-stepped motor allow for precise and flexible control. The user interface consists of an LED display and keypad. The self-flush head and a three-year warranty ensure years of trouble-free service. Method development is easy with Autoprime™ purging. Upper and lower pressure limits can be easily set, and the pressure can be monitored on the LED display. External control gives flexible performance at an affordable price.

The Series III is designed to give the modern chromatographer state-of-the-art capability at a value price.

### Intended applications

- Isocratic applications and metering
- Biocompatible applications
- Semi-preparative to 40 mL/min.
- Research and development
- Quality assurance
- Education

### Ordering information

<i>Description</i>	<i>Part No.</i>
Stainless steel 10 mL/min., 110V	120687-SP-EXT
PEEK 10 mL/min. , 110V	120693-SP-EXT
Stainless steel 40 mL/min., 110V	120690-SP-EXT
PEEK 40 mL/min. , 110V	120696-SP-EXT
Stainless steel 10 mL/min., 220V	120701-SP-EXT
PEEK 10 mL/min., 220V	120707-SP-EXT
Stainless steel 40 mL/min., 220V	120704-SP-EXT
PEEK 40 mL/min., 220V	120710-SP-EXT



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### Specifications

<b>Flow rates</b>	0.01 to 9.99 mL/min. 50 $\mu$ L head 0.04 to 40 mL/min. 200 $\mu$ L head
<b>Pressure</b>	0 to 6,000 psi 50 $\mu$ L head 0 to 1,500 psi 200 $\mu$ L head
<b>Accuracy</b>	2%
<b>Precision</b>	0.2% RSD
<b>Dimensions</b>	5.5" H x 10.4" W x 17.5" D
<b>Weight</b>	24 pounds

**Power** 100/110 Volts ac; 220 Volts ac  
50/60 Hz

**Features** Prime-purge valve  
Pulse damper  
LED display

**Remote inputs** RS-232  
Frequency (0-10 kHz),  
enable run, stop,  
voltage (0-10 volts)



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