

Dual Piston Isocratic Pumps

Constant Flow or Constant Pressure



- Dual pump heads for reduced pulsation
- Self flushing pump heads and prime purge valve
- Dual ball and seat check valves for consistent flow performance
- Simple front panel key pad with LED display
- 3 year warranty!

Constant Flow Pump, Model 1500 Features:

- Constant flows from 0.001 to 12.0mL/min.
- Pulse Dampener

CP Constant Pressure Pump Features:

- Pump for packing chromatography columns
- Constant pressure allows constant packing pressures up to 10,000 psi and 12mL/min (or 24mL/min)

Chrom Tech, Inc.

"your chromatography specialists"

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Chrom Tech[®]

Dual Piston Isocratic Pumps

Constant Flow Pump, Model 1500

- **Constant flows from 0.001 to 12.0mL/min.**
- **Pulse Dampener**

The patented low-dead-volume pulse damper and dual piston mechanism make this pump virtually pulse-free, and provide unmatched performance for the most demanding applications. The unit provides constant flow rates from 0.001 to 12.0mL/min., and is typically suitable for columns from 2mm up to 22mm ID.

The Series 1500 drive features a linear cam and pressure compensation to provide accurate gradients in the high- or low-pressure mode.

Standard controls include RS-232 serial communication port and run/stop inputs, remote frequency and remote voltage controls, real-time pressure monitoring, and constant flow.

The use of modern digital stepper motor technology and high performance mechanical design provide accurate pressures to 6,000 psi.

CP Constant Pressure Pump

- **For packing chromatography columns**
- **Constant pressure allows constant packing pressures up to 10,000 psi and 12mL/min (or 24mL/min)**

Model CP is an electric high pressure dual piston pump utilizing a constant pressure mode of operation to efficiently pack small diameter packing materials and columns of small diameters. The constant pressure pump allows constant packing pressures up to 10,000 psi within flow rates of .001-12mL/min or 0.1-24mL/min. The pump can also be used in a constant flow mode with an e-prom change.

The use of a variable ramp speed setting allows the user to choose the best flow profile for a given packing. The Model CP reduces turbulence and shear during the packing process, leading to more uniform bed structures and less fines generation than traditional methods of packing using high-pressure pneumatic amplifier pumps. The packing pressure can be monitored during the process to verify performance.

The pump has RS-232 or simple keypad control and a

Specifications:

Flow rates: 0.001 – 12.0mL/min.

P-1524CP, up to 24mL/min

Pulsation: $\pm 0.5\%$ @ 1 mL/min. and 1,000 psi

Pressure accuracy: $\pm 1\%$ of full scale pressure

Flow accuracy: $\pm 2\%$

Flow precision: 0.2% RSD

Dimensions: 6" (H) x 11" (W) x 18" (D)

Weight: 30 lbs. (14kg)



Constant Flow Isocratic Pumps

Cat. No. Description

P-1500 Series 1500 Pump, SS, 0-6,000 psi

P-1500B Series 1500 Pump, PEEK, 0-5,000 psi

Constant Pressure Isocratic Pumps

P-1500CP Model CP pump, SS, 12mL/min, 10,000 psi

P-1524CP Model CP pump, SS, 24mL/min, 10,000 psi

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