

VersaGrad™ Binary Gradient Pumps

Analytical to Preparative Capabilities

The VersaGrad™ pump platform is adaptable to all analytical and preparative chromatography applications



- **Compact Design**
- **Multiple Configurations**
- **High Performance at an Affordable Price**

Versatility and Unmatched Performance

The VersaGrad™ Binary pump line produces binary high-pressure gradients in a variety of flow and pressure ranges. Flow rates available from 0.001 – 100 mL/min with pressures up to 18,000 psi. Pulse-free, accurate flow is guaranteed with automatic pressure compensation, solvent selection, and internal pulse dampeners.

Both single and dual-piston configurations are available to meet any combination performance/value requirements. Single-piston models include 5, 10, or 40-mL/min maximum flow rates, with dual-piston models of 12, 36, or 100-mL/min maximum.

Material Compatibility for All Applications

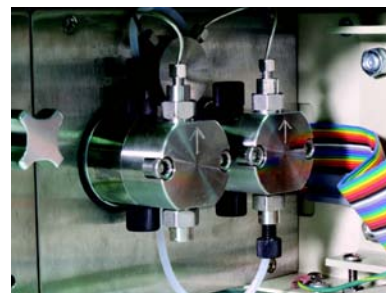
VersaGrad™ pumps are available in 316 stainless steel or biocompatible PEEK™ (polyetherether ketone) for metal-sensitive applications.

Reduced Maintenance

All pumps include automatic piston wash to dramatically extend the life of the high-pressure seal. Each piston stroke actively flushes the back of the primary seal with a flushing solution. The result is less down-time and reduced operating expenses.

Accuracy Over Entire Pressure Range

VersaGrad pumps are designed with precision mechanism and fluid-path components and complex control algorithms to provide accurate flow regardless of flow, backpressure, or solvent.



Performance Beyond Its Price

Simplicity of design and proven drive technology allow for superior performance at a reasonable price. Reliable operation is guaranteed long into the future with a 3-year warranty.

Easy Control

Standard controls include RS-232 serial communication ports (for complete control and pump status monitoring) and Run/Stop inputs.

All Pumps from Scientific Systems, Inc. Include a 3-Year Warranty



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VersaGrad™ Binary Gradient Pumps

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Standard Features and Options

Stainless Steel or PEEK fluid path
Single or Dual pump heads, cam-driven with single stepper motor drive
AutoPrime™ one button toggles flow rate for rapid solvent change
Front keypad control LCD display with pressure, flow, set points, etc.
High-efficiency Pulse Dampener for pulse-free flow while maintaining low dead volume
Isolated pressure transducer to prevent solvent contamination
Prime/Purge Valve; Outlet Filter
Automatic piston wash

Standard Controls

RS-232 Serial Com Port (one per channel) for complete control and status monitoring
Run/Stop Inputs (5 volt TTL)
Remote Flow Rate Voltage Control (0 – 10 vDC)
Remote Flow Rate Frequency Control (0 – 10 kHz)
Pressure Monitoring with user-selected upper/lower pressure limits
User-addressable solvent calibration feature
Interactive LCD control panel

Standard Specifications

Flow Accuracy.....2% of set flow rate
Flow Precision.....0.2% RSD
Dimensions....5.6" H x 10.8" W x 19.8" D (14.2 x 27.4 x 50.3 cm)
Weight.....44 lbs (20 kg)
Power.....100/110 Volts AC; 220 Volts AC, 50/60 Hz

Ordering Information

Single-Piston Binary Gradient Pumps	Part No.	Flow Range (per channel)	Pressure (maximum)
Series III, 5 mL, PEEK	VG305PFT01	0.001 – 5.000 mL/min	5,000 psi
Series III, 5 mL, Stainless Steel	VG305SFT01	0.001 – 5.000 mL/min	6,000 psi
Series III, 10 mL, PEEK	VG310PFT01	0.01 – 10.00 mL/min	5,000 psi
Series III, 10 mL, Stainless Steel	VG310SFT01	0.01 – 10.00 mL/min	6,000 psi
Series III, 40 mL, PEEK	VG340PFT01	0.1 – 40.0 mL/min	1,600 psi
Series III, 40 mL, Stainless Steel	VG340SFT01	0.1 – 40.0 mL/min	1,600 psi
Dual-Piston Binary Gradient Pumps	Part No.	Flow Range (per channel)	Pressure (maximum)
Series 1500, 12 mL, PEEK	VGF05PFT01	0.01 – 12.000 mL/min	5,000 psi
Series 1500, 12 mL, Stainless Steel	VGF05SFT01	0.01 – 12.000 mL/min	6,000 psi
Prep, 36 mL, PEEK	VGP10PFT03	0.01 – 36.00 mL/min	5,000 psi
Prep, 36 mL, Stainless Steel	VGP10SFT03	0.01 – 36.00 mL/min	6,000 psi
Prep, 100 mL, PEEK	VGP40PFT03	0.1 – 100.0 mL/min	4,000 psi
Prep, 100 mL, Stainless Steel	VGP40SFT03	0.1 – 100.0 mL/min	4,000 psi
UHP, 5mL, Stainless Steel	VGU05SFT01	0.001 – 5.000 mL/min	18,000 psi

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