

HPLC PUMPS 2024

The Next Generation HPLC Pumps

2024 Models

Single & Dual Piston Isocratic Pumps

Constand Flow or Constant Pressure HPLC Pumps

Replacement Parts & Maintenance Supplies





YOUR GLOBAL SCIENCE PARTNER

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ORDERING INFORMATION

Orders can be placed by Post, Phone, Email or Online

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YOUR GLOBAL SCIENCE PARTNER

Greyhound Chromatography HPLC Pumps

Always dependable

Get the reliability you deserve with constant flow pumps for a multitude of applications in chemical engineering, process engineering and chromatography

Why Greyhound?

Since 1982 Greyhound has been providing technical expertise in the Chromatography field by recommending products to meet your analytical requirements

Creynound Creynound

Common Maintenance and Troubleshoorting

We recommend scheduling regular preventative maintenance to keep your pumps running smoothly. For most labs, we recommend PM once per year, or every 1,000 hours of use, but it is always a good idea to keep some spare replacement parts on hand. Do remember, for dual piston pumps, you will need to replace seals, check valves, etc. in both pump heads, so make sure you have at least two of each replacement part.

Dependability is essential for our pump customers. As with any pump, problems may occur, but we have quick and effective solutions for the most common pump issues.

First time using pump and solvent wont flow? Our pumps need back pressure to work properly. The easiest way to add back pressure is by connecting outlet tubing (typically 1.16" OD, depending on the pump).

Experiencing a leak? First, check all your connections are tightened correctly. If all your fittings are connected properly, the most common issue is a worn piston seal. We offer replacement seal kits for each pump, which can be identified using the replacement parts listed in this brochure.

Erratic flow rates? This usually signifies a problem with a check valve. It could be something as simple as a bubble caught in the check valve, particulates from worn seals getting caught in the check valves, or just a check valve that has been overused.

Have questions? Call our team, we are here to help.

Tel: +44 (0) 151 649 4000

Email: info@greyhoundchrom.com

QUICK TIPS FOR SUCCESS



We recommend at least 50PSI of back pressure and ideally 1,000PSI for pumps with a pulse dampener

Cavitation can be problematic, so to avoid this issue, always place your solvent bottles above the pump and remember to replace the inlet filter element during routing maintenance



Filter HPLC solvents so that the particulates do not build up inside the pump

Utilising the self-flush mechanism is strongly recommended, especially when pumping any buffers, acids/bases, any inorganic solution near saturation, or for harsh solvents like THF

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TECH TIP



Pump accessory kit shipped with all pumps includes: 1/8" OD PTFE tubing (36" length),

20µm inlet filter, 1/8" and 1/16" outlet fittings (unless otherwise indicated)

Outlet tubing sold separately: 1/16" OD PEEK tubing

1/16" OD SS tubing

NEXT GENERATION HPLC PUMPS







PUMP MODEL	M1 CLASS	MXT CLASS	LST CLASS
Max flow rate/pressure	10 mL/2,000 PSI 40mL/500 PSI	10 mL/5,000 PSI	5 mL/6,000 PSI 10 mL/6,000 PSI
	161112, 300 1 31		40 mL/1,600 PSI
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FEATURES			
3 year warranty	•	•	•
SINGLE PISTON Isocratic Pump	•	•	•
Simple keypad control, LED display	•	•	•
Self-flushing pump heads	•	•	•
Pulse dampener		•	•
Prime purge valve		•	•
Real-time pressure monitoring		•	•
Set upper and lower pressure limits		•	•
Drip tray and leak sensor		•	•

A wide range of models with alternative specifications are available. Please contact our sales team to discuss your requirements.



We recommend pump maintenance every year or 1,000 hours of use









PUMP MODEL	LD CLASS	PR CLASS	CP CLASS	HF CLASS
Max flow rate/pressure	12 mL/6,000 PSI	100 mL/4,000 PSI	24 mL/10,000 PSI	300 mL
	36 mL/6,000 PSI	300 mL/1,000 PSI	100 mL/5,000 PSI	
	100 mL/1,000 PSI			
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FEATURES				
3 year warranty	•	•	•	•
DUAL PISTON isocratic pump	•	•	•	•
Simple keypad control, LED display	•	•	•	•
Self-flushing pump heads	•	•	•	•
Pulse dampener	•	•	•	•
Prime purge valve	•	•	•	•
Real-time pressure monitoring	•	•	•	•
Set upper and lower pressure limits	•	•	•	•
Drip tray and leak sensor	•	•	•	

Low Profile Single Piston Isocratic Pumps - M1 Class

- Self-flushing pump head
- Stainless steel or PEEK fluid path
- Simple keypad controls, LED display
- Single piston
- Electronic rapid refill mechanism
- Motor stall detector
- 3 year warranty

The compact M1 Class consists of single-headed, positive displacement piston pumps that deliver high-performance and precision at an affordable price. Applications include precise chemical metering, dispensing, and specific HPLC separation. Having the smallest possible footprint for a high pressure pump, the M1 Class will easily integrate into any laboratory or industrial environment.





SPECIFICATIONS

Flow Accuracy	Within 2% of set flow rate* 10mL
	Within 5% of set flow rate* 40mL
Flow Precision	1.0% RSD
Wetted Materials	Synthetic Ruby, Sapphire, UHMWPE,
	PTFE
Dimensions	5.5" x 3" x 10.5"
(h x w x d)	(14 x 8 x 27 cm)
Weight	3.5 lbs (1.6 kg)
Power	To Supply: 100-240 VAC, 50-60 Hz, 1A
	Supply to Pump: 24VDC, centre
	positive,
Control	Micro USB Port with RS-232
	communication, Run/Stop

^{*}Flow rate range for flow accuracy specification:

10 mL - 0.20 mL/min and above; 80:20 Water/IPA at 1,000 PSI

40 mL - 0.80 mL/min and above; 80:20 Water/IPA at 100 PSI



Standard vs Organic Seals

The standard seal is made of (UHMW-PE) Ultra High Molecular Weight Polyethylene for use with aqueous fluids.

The organic seal is made of graphite-filled PTFE for use with harsh chemicals.

ORDERING INFORMATION

PART NO	SEAL TYPE	FLOW RATE (mL/min)	MATERIAL	PRESSURE (PSI)	PUMP HEAD
P-M110S	standard	10	SS	2,500	MM
P-M110B	standard	10	PEEK	2,500	MM
P-M140S	standard	40	SS	500	МН

M1 FLASH	PUMP				
P-M1FS-8	standard	100	SS	250	

Flow Rate is dependent on solvent selection and operating pressure





TECH TIP

Recommended Back pressure

The recommended minimum back pressure is 50PSI for optimum check valve performance. If your application will not provide adequate back pressure, adding restrictive tubing to the outlet of the pump is recommended.

REPLACEMENT PARTS	MM HEAD		MH HEAD	FLASH PUMP
	P-M110S	P-M110B	P-M140S	P-M1FS-8
Piston Seal Kit*, Standard	P-1095	880272	P-1096	P-1199
Piston Seal Kit*, Organic	P-0109	P-1099B	P-3009	
Check Valve Kit, Inlet & Outlet	P-1085	P-1086	P-1085	P-1050
Replacement Check Valve Capsules, 10/pk	P-1075	P-1076	P-1075	
Self-Flush Assembly	P-1082	P-1088	P-1081	
Replacement Piston	P-0101	P-0101	P-1298	P-1157
Inlet Filter Assembly (Fitting & Element)	06-0110	06-0110	06-0110	06-0110
Replacement Inlet Filter Elements, 2/pk	P-1170	P-1170	P-1170	P-1170

^{*}Seal Kits include: Self-flush seal, O-Ring, Primary Seal, and Removal Tool

Single Piston Isocratic Pumps - MXT CLASS

- Pressure monitoring with automatic pressure compensation
- Self-flushing pump heads and Integrated prime-purge valve
- Set upper and lower pressure limits
- · Pulse dampener
- Stainless steel fluid path
- Simple keypad controls, LED display
- Leak sensor on drip tray
- Micro USB with RS-232 communication
- RJ11 with RS-232 communication
- Voltage control
- 3 year warranty
- MXT-MS Applications include • Flow Injection Analysis
 - Infusion
 - Cone Wash







SPECIFICATIONS

Flow Accuracy	Within 2% of set flow rate* 10mL		
Pressure Accuracy	± 2% of full scale pressure		
Flow Precision	0.5% RSD		
Wetted Materials	Synthetic Ruby, Sapphire, UHN PTFE	ЛWPE,	
Dimensions	6.5" x 7" x 16"		
(h x w x d)	(17 x 18 x 41 cm)		
Weight	15.3 lbs (6.9 kg)		
Power	100-240 VAC, (± 10%), 50-60 H	lz	
Control	RS-232, Micro USB, Voltage Flo	ow	
	Control, Run/Stop (ML Class U	SB &	
	Run Stop)		

^{*}Flow rate range for flow accuracy specification:

MXT ORDERING INFORMATION

PART No	FLOW RATE (mL/min)	MATERIAL	PRESSURE (PSI)	PUMP HEAD
P-MXT10S	10	SS	5,000	MM

Flow Rate is dependent on solvent selection and operating pressure

REPLACEMENT PARTS	MM HEAD
Piston Seal Kit*, Standard	P-1095
Piston Seal Kit*, Organic	P-0109
Check Valve Kit, Inlet & Outlet	P-1085
Replacement Check Valve Capsules, 10/pk	P-1075
Self-Flush Assembly	P-1082
Replacement Piston	P-0101
Inlet Filter Assembly (Fitting & Element)	06-0110
Replacement Inlet Filter Elements, 2/pk	P-1170
Replacement Outlet Filter Elements, 2/pk	P-1175
Pulse Dampener Rebuild Kit	P-1063

^{*}Seal Kits include: Self-flush seal, O-Ring, Primary Seal, and Removal Tool

¹⁰ mL—0.20 mL/min and above; 80:20 Water/IPA at 1,000 PSI

Single Piston High Performance Isocratic Pumps - LST Class

- Pulse dampener
- Self-flushing pump heads and prime purge valve
- Stainless steel or PEEK fluid path
- Simple front panel keypad controls with LED display
- Real-time pressure monitoring
- Set upper and lower pressure limits
- Drip tray and leak sensor
- Micro USB with RS-232 communication
- RJ11 with RS-232 communication
- Voltage control
- 3 year warranty

Models with alternative specifications are available, please contact our sales team for information.





The reliable LST Class are single-headed positive displacement piston pumps incorporating advanced cam designs for very low pulsation. With micro-stepping motor technology and a proven single-piston pump mechanism, the LST class exceeds the performance of more expensive units at a fraction of the cost. The pumps are ideal for a wide variety of demanding HPLC applications (including biocompatible separations), semi-prep LC, metering & dispensing, and general lab use.

SPECIFICATIONS

Flow Accuracy	Within 2% of set flow rate *
Pulsation	≤ 2% at 1 mL/min and 1,000 PSI
Pressure Accuracy	± 2% of full scale pressure
Flow Precision	0.2% RSD
Wetted Materials	Synthetic Ruby, Sapphire, UHMWPE, PTFE
Dimensions (h x w x d)	6.5" x 7" x 16" (16.5 x 18 x 41 cm)
Weight	15 lbs (7 kg)
Power	100-240 VAC, (± 10%), 50-60 Hz
Control	RS-232, Micro USB, Voltage Flow Control, Run/Stop

^{*}Flow rate range for flow accuracy specification: **5mL and 10 mL** - 0.20 mL/min and above; 80:20 Water/IPA at 1,000 PSI **40 mL** - 0.80 mL/min and above; 80:20 Water/IPA at 100 PSI

ORDERING INFORMATION

PART NO	FLOW RATE (mL/min)	MATERIAL	PRESSURE (PSI)	PUMP HEAD
P-LST05S	5	SS	6,000	L
P-LST05B	5	PEEK	6,000	L
P-LST10S	10	SS	6,000	М
P-LST10B	10	PEEK	6,000	М
P-LST40S	40	SS	1,600	Н
P-LST40B	40	PEEK	1,600	Н

Flow Rate is dependent on solvent selection and operating pressure



TECH TIP

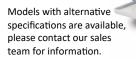
The recommended minimum back pressure is 1,000 PSI for optimum pulse dampener and pump performance. If your application will not provide adequate back pressure, adding restrictive tubing to the outlet of the pump is recommended.

REPLACEMENT PARTS	L HEAD M HEAD		EAD	H HEAD		
	P-LST05S	P-LST05B	P-LST10S	P-LST10B	P-LST40S	P-LST40B
Piston Seal Kit*, Standard	P-1595	P-1595B	P-1095	880272	P-1096	P-1096B
Piston Seal Kit*, Organic	P-1596	_	P-0109	P-1099B	P-3009	890283
Check Valve Kit, Inlet & Outlet	P-1085	P-1086	P-1085	P-1086	P-1085	P-1086
Replacement Check Valve Capsules, 10/pk	P-1075	P-1076	P-1075	P-1076	P-1075	P-1076
Self-Flush Check Valve Kit	P-1084	P-1084	P-1084	P-1084	P-1084	P-1084
Replacement Piston	P-1597	P-1597	P-1097	P-1097	P-1198	P-1198
Inlet Filter Assembly (Fitting & Element)	06-0110	06-0110	06-0110	06-0110	06-0110	06-0110
Replacement Inlet Filter Elements, 2/pk	P-1170	P-1170	P-1170	P-1170	P-1170	P-1170
Replacement Outlet Filter Elements, 2/pk	P-1175	P-1171 (ea)	P-1175	P-1171 (ea)	P-1175	P-1171 (ea)
Pulse Dampener Rebuild Kit	P-1063	P-1063	P-1063	P-1063	P-1063	P-1063

^{*}Seal Kits include: Self-flush seal, O-Ring, Primary Seal, and Removal Tool

Dual Piston Isocratic Pumps - LD & PR Class

- Autoprime[™] one button toggles flowrate to maximum for rapid solvent change
- Real-time pressure monitoring with upper and lower pressure limits
- Drip tray and leak sensor
- Pulse dampener
- Self-flushing pump heads and prime purge valve
- Stainless steel or PEEK fluid path
- Simple front panel keypad controls with LED display
- 3 year warranty







SPECIFICATIONS

Flow Accuracy	Within 2% of set flow rate*	LD 12		
	Within 2% of set flow rate*	LD 36		
	Within 2% of set flow rate*	LD 100		
	Within 3% of set flow rate*	PR 100		
	Within 4% of set flow rate*	PR 300		
Pulsation	≤ 0.5% at 1 mL/min and 1,000 PSI	LD 12		
	≤ 2% at 1 mL/min and 1,000 PSI	LD 36		
	≤ 4% at 50 mL/min and 250 PSI	LD 100		
	≤ 4% at 50 mL/min and 500 PSI	PR 100		
	≤ 4% at 50 mL/min and 500 PSI	PR 300		
Pressure Accuracy	± 2% of full scale pressure			
Flow Precision	0.2% RSD (12 mL)			
	0.5% RSD (36 mL, 100mL, 300mL)			
Wetted Materials	Synthetic Ruby, Sapphire, UHMWPE, PTFE,			
	Ceramic			
Dimensions	6.5" x 10" x 17"			
(h x w x d)	(16 x 25 x 43 cm)			
Weight	30 lbs (14 kg)			
Power	100-240 VAC, (± 10%), 50-60 Hz			
Control	RS-232, Micro USB, Voltage Flow Control,			
	Run/Stop			

^{*} Flow rate range for flow accuracy specification:

ORDERING INFORMATION

PART NO	FLOW RATE	MATERIAL	PRESSURE	PUMP HEAD	TUBING OUTLET
P-LD12S	12	SS	6,000	М	1/16"OD
P-LD12B	12	PEEK	6,000	М	1/16"OD
P-LD36S	36	SS	6,000	М	1/16"OD
P-LD36B	36	PEEK	6,000	М	1/16"OD
P-LD100S	100	SS	1,000	Н	1/8" OD
P-LD100B	100	PEEK	1,000	Н	1/8" OD
P-PR100S	100	SS	4,000	Н	1/8" OD**
P-PR100B	100	PEEK	4,000	Н	1/8" OD**
P-PR300S-8 *	300	SS	1,000	ХН	1/8" OD**
P-PR300B-8 *	300	PEEK	1,000	ХН	1/8" OD**

^{*} Does not come equipped with pulse dampener. 1/4" inlet (vs 1/8"OD)

Flow Rate is dependent on solvent selection and operating pressure



TECH TIP

Dual Piston Pump Maintenance -

In order to do maintenance on a dual piston pump, kits are sold per head, quantity of two required.

REPLACEMENT PARTS	M HEA	M HEAD		H HEAD	
	P-LD12S P-LD36S	P-LD12B P-LD36B	P-LD100S P-PR100S	P-LD100B P-PR100B	P-PR-300S-B
Piston Seal Kit*, Standard	P-1095	880272	P-1096	P-1096B	P-1795
Piston Seal Kit*, Organic	P-0109	P-1099B	P-3009	890283	P-1796
Check Valve Kit, Inlet & Outlet	P-1085	P-1086	P-1085	P-1086	P-1781
Replacement Check Valve Capsules, 10/pk	P-1075	P-1076	P-1075	P-1076	
Self-Flush Check Valve Kit	P-1084	P-1084	P-1084	P-1084	P-1084
Replacement Piston	P-1097	P-1097	P-1198	P-1198	P-1797
Inlet Filter Assembly (Fitting & Element)	06-0110	06-0110	06-0110	06-0110	06-0110
Replacement Inlet Filter Elements, 2/pk	P-1170	P-1170	P-1170	P-1170	P-1170
Replacement Outlet Filter Elements, 2/pk	P-1175 (0.5 μm) ¹ P-1172 (2 μm) ²	P-1171 (ea)	P-1172	P-1171 (ea)	P-1172
Pulse Dampener Rebuild Kit	P-1063	P-1063	P-1063	P-1063	P-1063

^{1) 0.5} µm outlet filter element standard with 12 mL pump

LD 12 - 0.20 mL/min and above; 80:20 Water/IPA at 1,000 PSI

LD 36 - 0.80 mL/min and above; 80:20 Water/IPA at 1,000 PSI

LD 100 - 2.0 mL/min and above; 80:20 Water/IPA at 1,00 PSI

PR 100 - 2.0 mL/min and above; 80:20 Water/IPA at 1,000 PSI

PR-300 - 5.0 mL/min and above; 80:20 Water/IPA at 100 PSI

^{**} Note: no fittings adapter kit included

^{2) 2} µm outlet filter element standard with 36 mL pump

^{*}Seal Kits include: Self-flush seal, O-Ring, Primary Seal, and Removal Tool

Constant Pressure Isocratic Pumps - CP Class

- Pressure monitoring with automatic pressure compensation
- Self-flushing pump heads and integrated prime-purge valve
- Stainless steel or PEEK fluid path
- Simple keypad controls, LED display
- 3 year warranty

The CP Class pumps are widely used for LC Column packing, as well as many process applications. Advanced pressure control algorithms ensure consistent bed density and prevent pressure over-shoot by allowing the user to select a wide range of process parameters, including desired pressure set point, ramp rate, and upper flow rate limit. Control software included. Pressure Control Accuracy is dependent on hydraulic system parameters. Pump automatically adjusts fluid flow to maintain constant system pressure under typical column-packing usage. Pump does not contain an automatic pressure-relief valve.



SPECIFICATIONS

Pressure Accuracy	± 2% of full scale pressure
Wetted Materials	Synthetic Ruby, Sapphire, UHMWPE, PTFE, Ceramic
Dimensions (h x w x d)	6.3" x 10" x 17" (16 x 25.5 x 43 cm)
Weight	30lbs (14 kg)
Power	100-240 VAC, (± 10%), 50-60 Hz
Control	RS-232, Micro USB, Voltage Flow Control, Run/Stop

ORDERING INFORMATION

PART NO	FLOW RATE (mL/min)	MATERIAL	MAX. PRESSURE (PSI)	PUMP HEAD
P-CP24S	24	SS	10,000	М
P-CP100S-8	100	SS	4,000	Н

Flow Rate is dependent on solvent selection and operating pressure



Pressure Control Accuracy

Pressure Control Accuracy is dependent on hydraulic system parameters. Pump automatically adjusts fluid flow to maintain constant system pressure under typical column-packing usage. Pump does not contain an automatic pressure-relief valve.



TECH TIP

Dual Piston Pump Maintenance

In order to do maintenance on a dual piston pump, kits are sold per head, a quantity of two is required.

REPLACEMENT PARTS	M HEAD	H HEAD
	P-CP24S	P-CP100S
Piston Seal Kit*, Standard	P-1095	P-1096
Piston Seal Kit*, Organic	P-0109	P-3009
Check Valve Kit, Inlet & Outlet	P-1085	P-1085
Replacement Check Valve Capsules, 10/pk	P-1075	P-1075
Self-Flush Check Valve Kit	P-1084	P-1084
Replacement Piston	P-1097	P-1198
Inlet Filter Assembly (Fitting & Element)	06-0110	06-0110
Replacement Inlet Filter Elements, 2/pk	P-1170	P-1170
Replacement Outlet Filter Elements, 2/pk	P-1175	P-1175

^{*}Seal Kits include: Self-flush seal, O-Ring, Primary Seal, and Removal Tool

^{*} Note: no fittings adapter kit included

High Flow Dual Piston Pumps - HF 300

- Up to 300 mL/min and 10,000 PSI
- Dual piston design for precise flow rates and low pulsation
- 3 year warranty
- Ceramic pistons and ruby/sapphire check valves
- At 220V, entire power range available. At 110V, maximum pressure decreases above 250mL/min

HF 300 PUMP			
PART NO	MODEL	FLOW RATE (mL/min)	MAX PRESSURE
P-5300CFNF	Constant flow *	0.1 – 300	10,000 PSI

Constant Pressure model also available (P/N P-5300CPNF), please specify when orderina

^{**} Note: no fittings adapter kit included

REPLACEMENT PARTS	
Piston Seal Kit*, Standard	P-1795
Check Valve Capsules, 4/pk	P-1781
Self-Flush Check Valve Kit	P-1084
Replacement Piston	P-1697
Replacement Outlet Filter Element, ea	P-1172

^{*}Seal Kits include: Self-flush seal, O-Ring, Primary Seal, and Removal Tool



MF 300 SPECIFICATIONS	
Flow Accuracy	< 5% of set point (above 5 mL/min, 1,000 PSI)
Flow Precision	0.5% RSD
Pulsation	< ± 5.0% from 150 mL/min, 3,000 PSI
Dimensions	9" x 14" x 22"
(h x w x d)	(22.8 x 35.8 x 55.9 cm)
Weight	50 lbs (22.7 kg)
Input	RS-232

Super Critical Fluid Pumps - SFC 24

- 3 year warranty
- Inlet/Outlet filter
- All aluminum pump heads (for heat transfer)
- Stainless Steel fluid path (other than pump heads)
- Integrated cooling system using Peltier thermoelectric modules
- In-line electronic pressure transducer

The SFC-24 features integrated cooling systems using Peltier thermoelectric modules. The cooling is fully self-contained within the pump cabinet, eliminating the need for external refrigeration units and the associated piping, coolants, and Freon. Peltier technology is 100% solid state.

SFC-24 PUMP			
PART NO	MODEL	FLOW RATE	MAX PRESSURE
P-2024SFC	Constant pressure	0.01 – 24 mL/min	10,000 PSI
P-2024SFC-CF	Constant flow	0.01 – 24 mL/min	10,000 PSI

REPLACEMENT PARTS	
Piston Seal Kit*, Standard	P-1095
Check Valve Kit, Inlet & Outlet	P-2485
Replacement Bulkhead Filter Assembly, ea (Inlet or Outlet)	050190
Replacement Filter Element for Bulkhead Filter, 2/pk	P-1172
Replacement Piston	P-1097

^{*}Seal Kits include: Self-flush seal, O-Ring, Primary Seal, and Removal Tool



SPECIFICATIONS				
Flow Accuracy	± 5%			
Pressure Accuracy	± 2% of full scale pressure			
Constant Pressure	Pressure monitoring (via transducer) with user-selected upper/lower pressure limits			
Control Mode	User-selectable pressure point set. Pump flow rate auto-adjusts to maintain pressure			
Dimensions	5.8" x 11.1" x 22.1"			
(h x w x d)	(14.6 x 28.3 x 53.7 cm)			
Weight	36 lbs (16.3 kg)			
Input	RS-232			

HPLC Pump Miscellaneous Supplies

PART NO	DESCRIPTION				
REPLACEMENT LOW PRESSURE INLET TUBING					
T-10201	1/8" OD FEP Fluoropolymer tubing, 1/16" ID, 10' length				
REPLACEMENT LOW PRESSURE INLET FITTINGS FOR 1/8" OD TUBING					
XP-301	1/4-28 Flat-Bottom Delrin Nut & ETFE Ferrule (P-300), each				
HIGH PRESSURE OUTLET FITTINGS		FOR TUBING OD			
U-400X	10-32, SS Nut, (10/pk)	1/16"			
U-401X	SS Ferrule (10/pk)	1/16"			
6000-054	10-32 Coned, PEEK Nut, max. 7,000 PSI, ea	1/16"			
6000-051	PEEK Ferrule (10/pk)	1/16"			
25-0155	SS Bulkhead, 2 μm outlet filter, ea	1/8"			
01-0141	SS Gland Nut, (10/pk)	1/8"			
01-0143	SS Ferrule (10/pk)	1/8"			
REPLACEMENT HIGH PRESSURE OUTLET TUBING					
18-100203-S	1/16" OD PEEK tubing (Blue), 0.010" ID, 1m length				
18-100102	1/16" OD SS tubing, 0.010" ID, 1m length				



TECH TIP Back Pressures

The recommended minimum back pressure is 50 PSI for optimum check valve performance. For pumps with a pulse dampener, we recommend a minimum of 1,000 PSI back pressure.

If your application will not provide adequate back pressure, adding tubing for restriction to the outlet of the pump is recommended.

Custom Pump Options:

Some pump models are available in Hastelloy C, Titanium or jacketed head configurations.

Speak with our sales team for further details

Model LP-21 LO-Pulse Dampener

The Model LP-21 LO-Pulse Dampener is a patented wide dynamic range pulse dampener designed for use with single piston HPLC pumps. It uses 1/4-28 SSI-type fittings and operates up to 6,000 PSI. The LO-Pulse Pulse Dampener reduces pulsations by compressing a fluid held within the bottom cavity of the unit. This fluid is isolated from the LC mobile phase by a durable but flexible inert diaphragm. As the HPLC system pressure increases, fluid in the bottom chamber is compressed. When the LC pump piston is retracting, the compressed fluid expands maintaining system pressure and, more importantly, keeps the mobile phase flowing at a constant rate. When the system pressure is at its maximum allowable pressure (6,000 PSI), the volume of mobile phase in the LO-Pulse is only 0.9 mL.

MODEL LP-21 LO-PULSE DAMPENER				
PART NO	DESCRIPTION			
20-0218	Model LP-21 LO-Pulse Dampener			
20-0220	PEEK Model LP-21 LO-Pulse Dampener			
12-0527	Low cost LO-Pulse (without case)			
12-0537	Low cost PEEK LO-Pulse (without case)			
P-1063	Spare parts kit (includes diaphragm, O-rings, tools)			



The noise level in the detector resulting from pump pulsations can significantly affect precision in qualification and the detection limit of trace components. The LO-Pulse™ Pulse Dampener smooths pump pulsations and maintains constant flow in flow sensitive detectors.



Ideal to have at least 100 PSI minimum back pressure for optimum efficiency

GREYHOUND / SSI PUMP REPLACMENT PARTS

NEW GENERATION PUMPS	L HEAD	M/MM HEAD	H/MH HEAD
FOR CURRENT PUMP MODELS	PLST05(S/B)	P-LST10(S/B) P-LD12(S/B) P-LD36(S/B) P-CP24S P-MXT10(S/B) P-M110(S/B)	P-LST40(S/B) P-LD100(S/B) P-PR100(S/B) P-CP100S-8 P-M140(S/B)
Replacement piston, ea	P-1597	P-1097	P-1198
Standard piston seal kit, ea	P-1595	P-1095	P-1096
Standard piston seals, 10/pk	P-1591	P-1090	P-3003
Biocompatible piston seal kit*, ea	P-1595B	880272	P-1096B
Piston seal kit, Organic, ea	P-1596	P-1099	P-3009
Biocompatible piston seal kit, Organic, ea	_	P-1099B	890283
Check valve SS (inlet & outlet)	P-1085	P-1085	P-1085
Check valve PEEK kit (inlet & outlet)	P-1086	P-1086	P-1086
Replacement capsules, SS (10/pk)	P-1075	P-1075	P-1075
Replacement capsules, PEEK (10/pk)	P-1076	P-1076	P-1076
Self flush check valve kit	P-1084	P-1084	P-1084
Self flush assembly, SS	_	_	_
Self flush assembly PEEK	_	_	_
Inlet filter assembly (fitting & element)	06-0110	06-0110	06-0110
Inlet filter element, 20 μm (2/pk)	P-1170	P-1170	P-1170
Outlet filter element, SS (2/pk)	P-1175	P-1175	P-1172
Outlet filter elements for PEEK Pumps, ea	P-1171	P-1171	P-1171
Prime purge valve rebuild kit, SS	P-1177	P-1177	P-1177
Prime purge valve rebuild kit, PEEK	P-1178	P-1178	P-1178
Prime purge valve assembly, SS, ea	22-0292	22-0292	22-0292
Prime purge valve assembly, PEEK, ea	06-0115	06-0115	06-0115
Pulse dampener w/transducer, SS - for models with real time pressure monitoring	P-1061	P-1061	P-1061
Pulse dampener w/transducer, PEEK - for models with real time pressure monitoring	P-1062	P-1062	P-1062
Pulse dampener (no transducer), SS	_	P-1065	P-1065
Pulse dampener (no transducer), PEEK	-	P-1066	P-1066
Pulse dampener rebuild kit	P-1063	P-1063	P-1063

^{*}Seal kits include: Self flush seal, O-ring, primary seal, removal tool

TECH TIP

Seal Options

Standard seals - Ultra High Molecular Weight Polyethylene

Organic seals - Graphite-filled PTFE for use with harsh chemicals



Biocompatible Seals

Now offering biocompatible seals which contain a fluoropolymer energizer (vs the Stainless Steel Energizer)

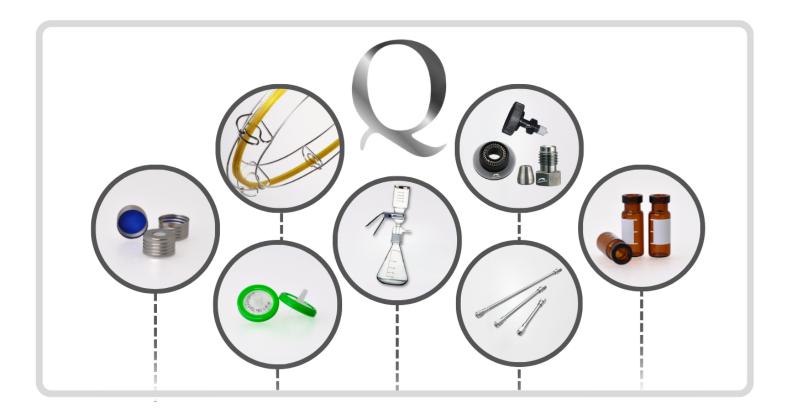




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