

Liquid Chromatography

LC Consumables (Legacy)



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I HPLC Pumps

I LC-10ADvp

Part No.	Name	1 year	2 year
228-45708-91	Suction Filter Assembly (includes SUS filter element, 1.5 mm ID x 2 m FEP tubing, and pump inlet fittings)	x	
228-45707-91	Suction Filter (no tubing)	x	
228-39093-92	Inlet Check Valve	x	
228-35146-00	GFP Plunger Seal	x	
228-32628-91	PE Seal for HPLC Equipment	x	
228-35601-93	Sapphire Plunger with Grease	x	
228-35601-91	Ceramic Plunger	x	
228-32784-91	Diaphragm (2/pack)	x	
228-34976-91	Outlet Check Valve	x	
228-35871-96	Line Filter		x
670-11518-00	O-Ring for Drain Valve	-	-
228-35281-95	Sapphire Plunger Assembly, includes nut	-	-
228-26752-91	Oil for Pump Cam Assy	-	-

I LC-10ATvp

Part No.	Name	1 year	2 year
228-45708-91	Suction Filter Assembly (includes SUS filter element, 1.5 mm ID x 2 m FEP tubing, and pump inlet fittings)	x	
228-45707-91	Suction Filter (no tubing)	x	
228-32166-91	Inlet Check Valve	x	
228-32401-00	Spacer, 6.3 mm (for PE Plunger seal*)	x	
228-32325-01	Spacer, 7.7 mm (for PE Plunger seal*)	x	
228-21975-91	SEAL,PE,LC10ATVP, LC-20AR,LC-20Ai	x	
228-35145-00	GFP Plunger Seal* (optional seal)	x	
228-35147-00	Cap Seal (for GFP Plunger seal*)	x	
228-35009-92	Ceramic Plunger Assembly	x	
228-28499-00	PE Rinse Seal	x	
228-34976-91	Outlet Check Valve	x	
228-35871-96	Line Filter		x
670-11518-00	O-Ring for Drain Valve	-	-
228-26752-92	Daphne Oil for Pump Cam Assy	-	-

*PE Seal - yellow, GFP seal - black

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LC-10Ai

Part No.	Name	6 months	1 year
228-39181-94	Ceramic Suction Filter Assembly (includes ceramic filter element, 1.5 mm ID x 2 m FEP tubing, and pump inlet fittings)		x
228-25079-91	Ceramic Suction Filter (Filter Only)		x
228-21975-91	SEAL,PE,LC10ATVP, LC-20AR,LC-20Ai		x
228-32401-00	Spacer, 6.3 mm (replace with PE Plunger seal)		x
228-32325-01	Spacer, 7.7 mm (replace with for PE Plunger seal)		x
228-32654-91	Sapphire Plunger Assembly		x
228-28499-00	PE Rinse Seal		x
228-61830-41	Inlet Check Valve		x
228-32798-91	Outlet Check Valve		x
228-48607-91	PEEK Line Filter	x	
670-11518-00	O-Ring for Drain Valve	-	-
228-26752-92	Daphne Oil for Pump Cam Assy	-	-

LC-6AD

Part No.	Name	1 year
228-45708-91	Suction Filter Assembly (includes SUS filter element, 1.5 mm ID x 2 m FEP tubing, and pump inlet fittings)	x
228-45707-91	Suction Filter (no tubing)	x
228-11999-00	GFP Plunger Seal	x
228-20284-91	Sapphire Plunger Assembly	x
228-20282-00	GFP Rinse Seal	x
228-20283-91	Inlet Check Valve	x
228-09054-93	Outlet Check Valve	x
228-12642-93	Line Filter Assembly	x
228-12564-00	Line Filter Packing	x
228-26752-92	Oil for Pump Cam Assy	-

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LC-8A

Part No.	Name	1 year	2 years
228-20031-00	Suction Filter Assembly (includes SUS filter element, 1.5 mm ID x 2 m FEP tubing, and pump inlet fittings)	x	
228-17421-42	Suction Filter (no tubing)	x	
228-51266-00	Plunger Seal	x	
228-51269-41	Sapphire Plunger	x	
228-51263-00	Rinse Seal	x	
228-50950-41	Inlet Check Valve	x	
228-50955-41	Outlet Check Valve	x	
228-18405-91	Line Filter		x
228-26752-92	Oil for Pump Cam Assy	-	-

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HPLC Autosamplers

SIL-10A / SIL-10AF

Part No.	Name	1 year	3 years	6 years
228-23490-00	Stator (3-way Valve)		x	
228-34417-04	Rotor (3-way Valve)	x		
228-18216-91	Syringe Adapter/Needle for HPLC			x
228-25205-00	2.5mL Syringe Adapter (Optional)			x
228-25237-04	Syringe, 500 µL	x		
228-25237-06	Syringe, 2.5mL (Optional)	x		
228-25237-07	Syringe, 5mL (Optional - 10AF)	x		
228-20243-93	Needle Assembly		x	
228-21227-91	Needle Seal, 3 pack	x		
228-21220-91	Stator (6-port valve)			x
228-21217-91	Rotor (6-port valve)		x	
228-21038-91	50 µL Sample Lo op (6-port valve #2 and #6)		x	
228-21515-92	500 µL Sample Loop (Optional)		x	
228-39389-94	5mL Sample Loop (Optional - 10AF)		x	
228-15154-91	Bypass Assembly, Tubing (6-port valve #4 and #5)		x	
228-49500-70	Tubing, SUS, 0.5 ID x 70mm, (6-port valve #3 to Injection Port)	-	-	-
228-21290-91	Rinse Port Septum (100/pack)	x		
228-20937-00	Rinse Port Cap	-	-	-

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SIL-10Ai

Part No.	Name	1 year	3 years	6 years
228-23490-00	Stator (3-way Valve)		x	
228-34417-04	Rotor (3-way Valve)	x		
228-28616-00	Syringe Adapter, PEEK			x
228-25237-04	Syringe, 500 µL	x		
228-25237-06	Syringe, 2.5mL (Optional)	x		
228-20243-93	Needle Assembly		x	
228-21227-91	Needle Seal, 3 pack	x		
228-32511-33	Stator (6-port valve)			x
228-21217-91	Rotor (6-port valve)		x	
228-33231-91	PEEK 50 µL Sample Loop		x	
228-21290-91	Rinse Port Septum (100/pack)	x		

SIL-10AP

Part No.	Name	1 year	3 years	6 years
228-25233-91	Suction Filter Assembly (includes SUS filter element, 1.5 mm ID x 2 m FEP tubing and syringe unit fittings)	x		
228-23490-00	Stator (3-way valve)		x	
228-34417-04	Rotor (3-way valve)	x		
228-18216-91	Syringe Adapter/Needle for HPLC			x
228-25237-07	Syringe, 5 mL	x		
228-20243-93	Needle		x	
228-21220-92	Stator Assembly (6-port valve)			x
228-21217-93	Rotor (6-port valve)		x	
228-39389-94	5 mL Loop		x	
228-15154-91	Bypass Assembly		x	
228-21227-91	Needle Seal, 3/pk	x		
228-21290-91	Rinse Port Septa (100/pack)	x		
228-20937-00	Rinse Port Cap	-	-	-

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SIL-HTA / SIL-HTC

Part No.	Name	1 year	2 years	3 years	6 years
228-36917-01	Low Pressure Valve Stator				x
228-36923-00	Low Pressure Valve Rotor	x			
228-35010-91	Metering Pump Plunger Assembly		x		
228-35145-00	Metering Pump Seal		x		
228-41024-92	Needle		x		
228-33355-01	Needle Seal		x		
228-41310-92	High Pressure Valve Rotor			x	
228-41370-91	100 µL Sample Loop		x		
228-37548-96	500 µL Sample Loop (optional)		x		
228-37548-93	2mL Sample Loop (optional)		x		

SIL-10ADvp

Part No.	Name	1 year	2 years	3 years	6 years
228-36730-91	Stator Assembly (6-position valve)*				x
228-36457-00	Rotor (6-position valve)*				x
228-35145-00	Metering Pump Seal		x		
228-35010-91	Metering Pump Plunger Assembly	x			
228-33518-94	Needle – for PEEK or Vespel Seal			x	
228-33355-04	Needle Seal - Vespel	x			
228-33355-01	Needle Seal - PEEK	x			
228-21220-94	Stator (6-port valve)				x
228-21217-97	Rotor (6-port valve)			x	
228-39436-91	50 µL Loop (6-port valve #1 to Needle block)			x	
228-39751-91	500 µL Sample Loop (optional)				

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| HPLC Detectors

| UV / UV-Vis Detectors

| SPD-10Avp / SPD-10AVvp SPD-10A / SPD-10AV

Part No.	Name	1 year	2 years
228-34016-02	Deuterium Lamp		x
670-14602-00	Tungsten Lamp (AV Only)		x
228-18058-00	Flow Cell Window	x	
228-14572-00	Flow Cell Lens	x	
228-35097-95	Flow Cell Gaskets, 2/pack	x	
228-23415-01	Flow Cell Gasket (10A, 10AV)	x	

Inspection/Maintenance Schedule

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| Photodiode Array Detectors

| SPD-M10Avp

Part No.	Name	1 year	2 years
228-34016-00	Deuterium Lamp		x
228-34410-41	Tungsten Lamp		x
228-18058-00	Flow Cell Window	x	
228-14572-00	Flow Cell Lens	x	
228-23415-01	Flow Cell Gasket (M10Avp)	x	

| Fluorescence Detectors

| RF-10AXL

Part No.	Name	1 year	2 years
228-34216-00	Xenon Lamp (10 Series) 500 hours		x

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HPLC Integrated Systems

LC-2010A/C / LC-2010A/C HT

Part No.	Name	1 year	2 years	6 years
228-39962-91	Suction Filter Assembly with 'A' Label (includes SUS filter element, 1.5 mm ID x 2 m FEP tubing, degasser bushing and ferrule and 2-piece mobile phase bottle cap)	x		
228-39962-92	Suction Filter Assembly with 'B' Label (includes SUS filter element, 1.5 mm ID x 2 m FEP tubing, degasser bushing and ferrule and 2-piece mobile phase bottle cap)	x		
228-39962-94	Suction Filter Assembly with 'D' Label (includes SUS filter element, 1.5 mm ID x 2 m FEP tubing, degasser bushing and ferrule and 2-piece mobile phase bottle cap)	x		
228-39962-95	Suction Filter Assembly with 'R' Label (includes SUS filter element, 1.5 mm ID x 2 m FEP tubing, degasser bushing and ferrule and 2-piece mobile phase bottle cap)	x		
228-37149-92	Inlet Check Valve DIV Cartridge	x		
228-35146-00	GFP Plunger Seal	x		
228-35601-93	Sapphire Plunger	x		
228-32784-91	Diaphragm (2/pack)	x		
228-37147-93	Outlet Check Valve	x		
228-35871-96	Line Filter	x		
228-36917-01	Low Pressure Valve Stator			x
228-36923-00	Low Pressure Valve Rotor	x		
228-35145-00	Metering Pump Seal		x	
228-35010-91	Metering Pump Plunger Assembly		x	
228-41024-92	Needle		x	
228-33355-04	Vespel Needle Seal (A/C only)		x	
228-41540-01	PEEK Needle Seal (HT only)		x	
228-40254-93	Stator Assy, HPV Assy			x
228-38556-01	High Pressure Valve Rotor (A/C only)	x		
228-41310-91	High Pressure Valve Rotor (HT only)	x		
228-41370-91	100 µL Loop		x	
228-37401-00	Deuterium Lamp	x		
228-14572-00	Flow Cell Lens		x	
228-35097-95	Flow Cell Gaskets (2/pack)	x		
228-35281-95	Sapphire Plunger Unit	x		

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Accessories and Supplies

Tubing

Part No.	Name	Item Notes
228-35464-00	3.0 mm FEP Tubing, 2m	For plumbing DGU to VP and 20/30 series pumps; requires 228-46472-00 nut and 228-46471-00 ferrule on DGU end; requires 228-39084-00 nut and 228-12493-00 ferrule on pump end
220-91246-00	Natural PEEK Tubing 0.0025" (0.065mm) i.d., 5 ft	Requires 228-18565-84 PEEK fingertight fitting
228-33833-91	Red PEEK Tubing 0.005" (0.13mm) i.d., 5ft	Requires 228-18565-84 PEEK fingertight fitting
220-91469-02	Yellow PEEK Tubing 0.007" (0.17 mm) i.d., 5 ft	Requires 228-18565-84 PEEK fingertight fitting
228-33833-92	Blue PEEK Tubing 0.01" (0.25mm) i.d., 5ft	Requires 228-18565-84 PEEK fingertight fitting
228-33833-93	Orange PEEK Tubing, 0.020" (0.50 mm) i.d., 5 ft	Requires 228-18565-84 PEEK fingertight fitting
220-91469-00	Green PEEK Tubing, 0.030" (0.8mm) i.d., 5ft	Requires 228-18565-84 PEEK fingertight fitting
220-91428-00	PEEK Tubing and Fittings Kit	Includes 2 rolls of red and blue tubing, short and long fittings, cutter, unions, spare DGU-20 nuts and ferrules.
228-36998-91	Micro Stainless Steel Tubing, 1.6mm OD x 0.1mm x 2m	Requires 228-16001-00 SS nut and 228-16000-84 SS ferrule
228-36993-96	Std Stainless Steel Tubing, 1.6mm OD x 0.3mm x 2m	Requires 228-16001-00 SS nut and 228-16000-84 SS ferrule
228-36993-99	Prep Stainless Steel Tubing, 1.6mm OD x 0.8mm x 2m	Requires 228-16001-00 SS nut and 228-16000-84 SS ferrule
228-36995-94	Stainless Steel Tubing, 1.6mm OD x 0.5mm x 2m	Requires 228-16001-00 SS nut and 228-16000-84 SS ferrule
220-91563-00	Stainless Steel Tubing, 1/16" OD x 0.125mm ID x 5cm	
220-91563-01	Stainless Steel Tubing, 1/16" OD x 0.125mm ID x 10cm	
220-91563-02	Stainless Steel Tubing, 1/16" OD x 0.125mm ID x 20cm	
220-91563-03	Stainless Steel Tubing, 1/16" OD x 0.125mm ID x 30cm	
228-25495-91	Pump Drain Valve Tubing, 10A/10Avp	Requires 228-18565-84 PEEK fingertight fitting
228-25495-93	Pump Drain Valve Tubing, 20A/30A	Requires 228-35403-00 narrow head PEEK fingertight fitting
228-18495-06	SPD Outlet Tubing, 0.3mm i.d., 2m	Requires 228-18565-84 PEEK fingertight fitting

Mobile Phase Bottles and Caps

Part No.	Name	Item Notes
220-91411-00	1L Bottle Cap	For standard 1L Pyrex or Schott type bottles with GL-45 threads; includes 1 solid plug and 1 filter plug with SS frit
220-91413-01	1L Bottle/Cap Pkg, Set of 5	Set of 5-1L Solvent Bottles with 3-hole caps
220-91413-02	1L Bottle/Cap/Res Tray Package	Set of 5-1L Solvent Bottles with 3-hole caps, including Prominence LC-20 Reservoir Tray
220-91412-00	4L Bottle Cap	For standard 4L VWR or Fisher Bottles with GL-38 threads. Includes 1 solid plug and 1 filter plug with SS frit.

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Hardware, Fittings and Connectors

Part No.	Name	Item Notes
228-46471-00	DGU-20A3/A5 Ferrule, 10/pack	
228-46472-00	DGU-20A3/A5 Flangeless Nut, 10/pack	
228-18555-00	Clear Nut for DGU-14/FCV-11AL	
228-23119-00	Plug for DGU-14/FCV-11AL	
228-39084-00	Brown Nut for Pump Inlet Tubing	
228-12493-00	White Ferrule for Pump Inlet Tubing	
228-18565-84	One-piece Fingertights, 5/pack	
220-91469-01	Long PEEK Fingertights, 10/pack	
220-90278-00	Rheodyne Standard Nut	For FCV-14AH or FCV-20AH6 only
220-90278-01	Rheodyne Long Nut	For FCV-14AH or FCV-20AH6 only
220-90278-02	Rheodyne Extra Long Nut	For center port of FCV-14AH or FCV-20AH6
220-90279-00	Rheodyne Ferrule	For FCV-14AH or FCV-20AH6 only
228-32651-41	Two-piece Rhe-flex Fingertights, 10/pack	
220-91522-03	Nexera Long 1-Piece High Pressure Fitting	Must be used with Idex high pressure valves
220-91522-04	Nexera 1-Piece Fingertight Fitting	Not for 15/18K Valves
220-91522-05	Nexera Short 1-Piece High Pressure Fitting	Not for 15/18K Valves
220-91522-07	Nexera 1-piece High Pressure PEEK Fitting	For pressures up to 12K psi
228-54455-01	High Pressure PEEK Nut, 10/pack	For pressures up to 16.5K psi
228-54455-03	High Pressure PEEK Ferrule, 10/pack	For pressures up to 16.5K psi
228-35403-00	Narrow Head Fingertight Fitting for LC-20/30 Drain Line	
228-46363-00	Red Nut for SPD-20A/SPD-M20A Flow Cell Inlet	For 1/32" tubing
228-25013-00	PEEK Tee for 1/16" Tubing	Requires 228-18565-84 PEEK fingertight fitting
228-00126-00	Stainless Steel Male Tee	For 8A fittings kit
228-16008-03	Stainless Steel Female Tee	Requires 228-18565-84 PEEK fingertight fitting, 228-16001-00 SS nut, and 228-16000-84 SS ferrule
228-25014-00	PEEK Union for 1/16" Tubing	Requires 228-18565-84 PEEK fingertight fitting
228-16004-11	Prep Union 0.8mm i.d. for 1/16" Tubing	
228-16004-13	Stainless Steel Union, Analytical	
220-91557-00	Nexera High Pressure Union	Includes fittings
228-40998-10	Stainless Steel Reducing Union for SPD-20A/M20A Inlet	For 1/16" tubing; requires 228-18565-84 PEEK fingertight fitting for 1/16" tubing; requires 228-46363-00 red nut for 1/32" tubing
228-50602	Connector, PEEK	Requires 228-18555-00 nut, 228-39084-00 nut, and 228-12493-00 ferrule
228-28162-00	T-Type, Connector	
228-28163-00	Straight Tubing Connector	
228-28090-00	PEEK Plug for Column Ends	
228-16006-00	Stainless Steel Plug for Mixer or Valco Manifold Ports	

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228-16001-00	Standard Stainless Steel Male Nut, EA	
228-16001-03	Long Head Stainless Steel Nut for SIL-10ADvp	
228-16002-00	Stainless Steel Female (cap) Nut	Requires 228-16000-17 SS ferrule
228-16000-17	Stainless Steel Ferrules, 3/pack	

Tools

Part No.	Name	Item Notes
086-03047-01	8x6 mm Wrench	
086-03006-00	8x10 mm Wrench	
086-03017-00	13x17 mm Wrench	
086-03804-00	3 mm Wrench	
086-03805-00	4 mm Wrench	
228-34672-02	Plunger Removal Tool	For SIL-HT, VP and 20 Series Autosamplers, VP and 20AT Pumps
228-28767-91	Plunger Removal Tool	For 10AD, 20 and 30 Series Pumps
228-50570-00	Needle Seal Removal Tool	For HT, XR and 30 Series Autosamplers
228-25142-01	Seal Installer/Removal Tool	For 6AD, 10 Series, 10 ATvp Pumps and Autosampler Metering Pump
228-18886-01	Seal Installer/Removal Tool	For 20AD and 10ADvp Pumps
228-62458-41	Seal Installer/Removal Tool	For 30AD Pumps
220-97840-00	Peak Loupe 15X Magnifier	For 30AD Pumps
228-54852-00	Diaphragm Jig for LC-30AD Pump	
046-00038-01	20 mL Syringe	
228-57515-01	Syringe Needle, Lock Type	
228-18216-91	Plastic Luer-lock Needle	For pump priming through drain line
228-15672-91	Metal Needle with Nut and Ferrule	For priming check valves
228-32930-01	PEEK Tubing Cutter	Includes 5/pk of replacement blades
228-32930-02	Spare PEEK Tubing Cutter Blades	
220-97821-00	SUS Tubing Cutter and Deburring Kit	Includes tubing holder, file and deburring tool (not recommended)

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Waste Cans and Accessories

Part No.	Name	Item Notes
220-91440-00	2 Gallon Waste Can with Polypropylene Fittings	For reverse phase solvents; comes with manifold, filter adapter, vapor filter, SPD and SIL fittings and plugs
220-91442-00	2 Gallon Waste Can with SUS Fittings	For normal phase solvents; comes with manifold, filter adapter, vapor filter, SPD and SIL fittings and plugs
220-91441-00	5 Gallon Waste Can with Polypropylene Fittings	For reverse phase solvents; comes with manifold, filter adapter, vapor filter, SPD and SIL fittings and plugs
220-91443-00	5 Gallon Waste Can with SUS Fittings	For normal phase solvents; comes with manifold, filter adapter, vapor filter, SPD and SIL fittings and plugs
220-91447-00	Vapor Filters, 5/pack	
220-91446-00	FRC Waste Fitting	
220-91444-00	SPD Waste Fitting	For connecting multiple systems to 1 can
220-91445-00	SIL/ELSD Waste Fitting	For connecting multiple systems to 1 can

Cables

Part No.	Name	Item Notes
071-60821-08	AC Power Cord	
070-92025-51	Fiber Optic Cable, 1m	For connecting LC modules to controller
070-92025-52	Fiber Optic Cable, 2m	For connecting LC modules to controller
070-92025-53	Fiber Optic Cable, 3m	For connecting LC modules to controller
070-92025-54	Fiber Optic Cable, 5m	For connecting LC modules to controller
228-28253-91	Remote Cable, 2m	Contact closure cable required for manual injector, PDA and external events
228-70733-41	Pressure Signal Cable, DGU	Required to read DGU pressure from software; connects pump to DGU
228-70733-41	Pressure Signal Cable, DGU	Required to read DGU pressure from software; connects pump to DGU
228-35070-00	Event Cable, 4 wire	For external events on the SCL-10Avp
228-39306-91	Signal Cable with Spade Plugs	Signal cable for SPD-20A(V), RID-20A, SPD-M20A/M30A, and RF-20A(xs)

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Please read the instruction manual included with all products before use.



The replacement and maintenance periods listed in the guide are presented only as guidelines and not as a guarantee. Routine maintenance and inspection will vary depending on usage conditions.



Should you have questions on items listed in this guide, please contact your nearest Shimadzu representative.

| Links

Shimadzu Scientific Instruments U.S. Webstore:
<http://store.shimadzu.com>

Shimadzu Nexera Virtual Advisor:
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