

Liquid Chromatography

# LC Consumables



# I HPLC Pumps



## I LC-30AD

### Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years
228-45708-91	Suction Filter Assembly (with tubing, 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	
228-52964-95	Inlet Check Valve	X	
228-52711-92	PE Plunger Seal (includes backup ring)	X	
228-52069-94	Sapphire Plunger with Diaphragm	X	
228-55272-41	Diaphragm (2/pack)	X	
228-53334-96	Outlet Check Valve	X	
228-35871-99	Line Filter		X

# LC-20AD

## LC-20AB

### LC-20ADXR

Part No.	Name	1 year	2 years
228-45708-91	Suction Filter Assembly (with tubing, 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	
228-48249-91	Inlet Check Valve	x	
228-35146-00	GFP Plunger Seal (20AD/20AB only)	x	
228-32628-91	PE Plunger Seal (XR only)	x	
228-35601-93	Sapphire Plunger	x	
228-32784-91	Diaphragm (2/pack)	x	
228-45705-91	Outlet Check Valve	x	
228-35871-96	Line Filter		x

# LC-20AT

Part No.	Name	1 year	2 years
228-45708-91	Suction Filter Assembly (with tubing, 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	
228-45704-92	Inlet Check Valve (PRI in)	x	
228-42700-00	Plunger Seal Spacer	x	
228-35145-00	GFP Plunger Seal	x	
228-35009-93	Sapphire Plunger Assembly	x	
228-35935-00	Rinse Seal	x	
228-48249-91	Inlet Check Valve (SEC in)	x	
228-35871-96	Line Filter		x

## LC-10ADvp

Part No.	Name	6 months	1 year
228-45708-91	Suction Filter Assembly (with tubing, 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
228-35601-93	Sapphire Plunger		X
228-32784-91	Diaphragm (2/pack)		X
228-34976-91	Outlet Check Valve		X
228-48607-91	PEEK Line Filter	X	

## LC-10ATvp

Part No.	Name	6 months	1 year
228-45708-91	Suction Filter Assembly (with tubing, 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
228-21975-00	PE Plunger Seal *(standard seal)		X
228-35145-00	GFP Plunger Seal* (optional seal)		X
228-25147-00	Cap Seal (for GFP Plunger seal*)		X
228-35009-92	Ceramic Plunger		X
228-28499-00	PE Rinse Seal		X
228-34976-91	Outlet Check Valve		X
228-48607-91	PEEK Line Filter	X	

\*PE Seal - yellow, GFP seal - black

## LC-10AD

Part No.	Name	1 year
228-45708-91	Suction Filter Assembly (with tubing, 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
228-33492-91	Inlet Check Valve	X
228-35146-00	GFP Plunger Seal	X
228-18523-91	Sapphire Plunger Assembly	X
228-32784-91	Diaphragm (2/pack)	X
228-32531-92	Outlet Check Valve	X
228-12642-93	Line Filter Assembly	X
228-12564-00	Packing for In-line Filter	X

## LC-10AT

Part No.	Name	1 year
228-45708-91	Suction Filter Assembly (with tubing, includes SUS filter element, 1.5 mm ID x 2m 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	x
228-32325-01	Spacer, 7.7 mm	x
228-21975-00	PE Plunger seal	x
228-32654-91	Sapphire Plunger Assembly	x
228-28499-00	PE Rinse Seal	x
228-34976-91	Outlet Check Valve	x
228-12642-93	Line Filter Assembly	x
228-12564-00	Packing for In-line Filter	x

## LC-10AS

Part No.	Name	1 year
228-45708-91	Suction Filter Assembly (with tubing, includes SUS filter element, 1.5 mm ID x 2m FEP tubing, and pump inlet fittings)	x
228-45707-91	Suction Filter (no tubing)	x
228-12353-91	Inlet Check Valve	x
228-21975-00	PE Plunger Seal	x
228-17019-93	Sapphire Plunger Assembly with Grease	x
228-28499-00	PE Rinse Seal	x
228-09054-93	Outlet Check Valve	x
228-12642-93	Line Filter Assembly	x
228-12564-00	Packing for In-line Filter	x

## LC-10Ai

Part No.	Name	6 months	1 year
228-18740-92	Ceramic Suction Filter Assembly (with tubing, includes ceramic filter element, 1.5 mm ID x 2 m FEP tubing, and pump inlet fittings)		x
228-32792-91	Inlet Check Valve		x
228-21975-00	PE Plunger Seal		x
228-32654-91	Sapphire Plunger		x
228-28499-00	PE Rinse Seal		x
228-32798-91	Outlet Check Valve		x
228-48607-91	PEEK Line Filter	x	

## LC-6AD

Part No.	Name	1 year
228-12491-91	Suction Filter Assembly (with tubing, includes SUS filter element, 1.5 mm ID x 2 m FEP tubing, and pump inlet fittings)	x
228-12372-00	Suction Filter (no tubing)	x
228-20283-91	Inlet Check Valve	x
228-11999-00	GFP Plunger Seal	x
228-20284-91	Sapphire Plunger Assembly	x
228-20282-00	GFP Rinse Seal	x
228-09054-93	Outlet Check Valve	x
228-12642-93	Line Filter Assembly	x
228-12564-00	Line Filter Packing	x

## LC-20AP

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

## LC-8A

Part No.	Name	1 year	2 years
228-17421-91	Suction Filter Assembly (with tubing, includes SUS filter element, 1.5 mm ID x 2 m FEP tubing, and pump inlet fittings)	x	
228-20031-00	Suction Filter (no tubing)	x	
228-20256-91	Inlet Check Valve	x	
228-18092-00	GFP Plunger Seal	x	
228-16837-91	Sapphire Plunger Assembly	x	
228-18306-00	Rinse Seal	x	
228-09054-93	Outlet Check Valve	x	
228-18405-91	Line Filter		x
228-12564-00	Line Filter Packing		x

# | HPLC Autosamplers



## | SIL-30AC SIL-30ACMP

### Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years	3 years	6 years
228-45708-91	Suction Filter Assembly (with tubing, 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			
228-51663-01	Low Pressure Valve Stator				x
228-51923-00	Low Pressure Valve Stator Packing	-	-	-	-
228-51922-00	Low Pressure Valve Rotor	x			
228-35145-00	Metering Pump Seal		x		
228-35010-91	Metering Pump Plunger Assembly		x		
228-48858-95	High Pressure Valve Stator				x
228-52139-00	High Pressure Valve Rotor			x	
228-45402-96	50 $\mu$ L Loop (30AC only)		x		
228-45402-98	50 $\mu$ L Loop (30ACMP only)		x		
228-41024-95	Needle		x		
228-51904-00	Needle Seal Cap		x		
228-52253-00	Needle Seal		x		
228-52401-92	Needle Seal Kit (3 seals & housing)		x		
228-52597-43	Outlet Tubing with Preheater (CTO-30A)	x			
228-53184-91	SUS Outlet Tubing, 0.1 x 600mm (for CTO-20A/20AC)	x			
228-48328-01	Rinse Port Cover	x			
228-48331-91	Rinse Port Cap, no Hole 10/pack	x			

228-48331-92	Rinse Port Cap, with Hole 10/pack	x			
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# SIL-20A / SIL-20AC

## SIL-20AHT / SIL-20ACHT

## SIL-20AXR / SIL-20ACXR

Part No.	Name	1 year	2 years	3 years	6 years
228-45708-91	Suction Filter Assembly (with tubing, 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			
228-36917-01	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		
228-45408-91	High Pressure Valve Stator (20A/C)				x
228-45408-93	High Pressure Valve Stator (20A/C HT only)				x
228-48858-91	High Pressure Valve Stator Assembly (XR only)				x
228-41310-92	High Pressure Valve Rotor (20A/C, 20A/C HT only)			x	
228-48854-00	High Pressure Valve Rotor (XR only)			x	
228-45402-95	100 µL loop (20A/C, 20A/C HT only)		x		
228-45402-96	50 µL Loop (XR only)		x		
228-41024-93	Needle		x		
228-42325-01	Needle Seal (20A/C, 20A/C HT only)		x		
228-50390-00	Needle Seal (XR only)		x		
228-50452-93	Needle Seal Kit (3 seals + 1 housing) (XR only)		x		
228-40984-94	0.13 x 600 mm PEEK Outlet Tubing (20A/AC only)	x			
228-48464-92	Micro Outlet Tubing SUS 0.1 x 600 mm (HT only)	x			
228-48826-92	Micro Outlet Tubing SUS 0.1 x 600 mm (XR only)	x			
228-46609-94	SUS Outlet Tubing, 0.17 x 1000 mm (HT/XR only)	x			
228-46609-93	SUS Outlet Tubing, 0.3 x 1000 mm (HT only)	x			
228-48328-00	Rinse Port Cover	x			
228-48331-91	Rinse Port Cap no Hole, 10/pack	x			
228-48331-92	Rinse Port Cap with Hole, 10/pack	x			

# SIL-10A

## SIL-10AF

### SIL-10Ai

Part No.	Name	1 year	3 years	6 years
228-25233-91	Suction Filter Assembly (with tubing, 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		
228-23810-00	Syringe Adapter (10A/10AF only)			x
228-28616-00	Syringe Adapter, PEEK (10Ai only)			x
228-25237-04	Syringe, 500 µL	x		
228-20243-93	Needle Assembly (10A/10AF only)		x	
228-20243-95	Needle Assembly (10Ai only)		x	
228-21220-91	Stator (6-port valve)			x
228-21217-91	Rotor (6-port valve)		x	
228-21038-91	50 µL Loop (10A/10AF only)		x	
228-33231-91	50 µL Loop (10Ai only)		x	
228-15154-91	Bypass Assembly (10A/10AF only)		x	
228-21227-91	Needle Seal	x		
228-21290-91	Rinse Port Septa (100/pack)	x		

# SIL-10AP

Part No.	Name	1 year	3 years	6 years
228-25233-91	Suction Filter Assembly (with tubing, 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		
228-23810-00	Syringe Adapter			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	x		
228-21290-91	Rinse Port Septa (100/pack)	x		

# SIL-HT<sub>A</sub>

## SIL-HT<sub>C</sub>

Part No.	Name	1 year	2 years	3 years	6 years
228-45708-91	Suction Filter Assembly (with tubing, 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			
228-36917-01	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		
228-41185-92	High Pressure Valve Stator				x
228-41310-92	High Pressure Valve Rotor			x	
228-41370-91	100 µL Loop		x		
228-41024-92	Needle		x		
228-33355-01	Needle Seal		x		
228-41380-93	Outlet Tubing, 0.25 mm			x	

# SIL-10AD<sub>vp</sub>

Part No.	Name	1 year	2 years	3 years	6 years
228-45708-91	Suction Filter Assembly (with tubing, 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			
228-36730-91	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			
228-21220-94	Stator (6-port valve)				x
228-21217-97	Rotor (6-port valve)			x	
228-39436-91	50 µL Loop			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			
228-39830-91	Outlet Tubing, SUS, 0.31 x 600 mm			x	
228-36215-91	Rinse Port Septa (10/pack)	x			

\*For autosamplers manufactured during April 2003 or before, please contact your Shimadzu representative with any questions.

# SIL-10AXL

Part No.	Name	1 year	2 years	3 years	6 years
228-25233-91	Suction Filter Assembly (with tubing, 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			
228-23810-00	Syringe Adapter				x
228-25237-04	Syringe	x			
228-33518-94	Needle			x	
228-21220-91	Stator (6-port valve)				x
228-21217-91	Rotor (6-port valve)			x	
228-33459-91	100 µL Loop			x	
228-15154-91	Bypass Assembly			x	
228-33355-04	Needle Seal - Vespel	x			
228-21290-91	Rinse Port Septa (100/pack)	x			

# LC-2030 / LC-2030C

## LC-2040 / LC-2040C

Part No.	Name	1 year	2 years	3 years	6 years
228-56200-49	Suction Filter Assembly (includes SUS filter element, 1.5 mm ID FEP tubing, degasser bushing and ferrule, and 2-piece mobile phase cap)		x		
228-45707-91	Suction Filter		x		
228-36917-01	Low Pressure Valve Stator (2030)				x
228-58668-01	Low Pressure Valve Stator (2040)				x
228-36923-00	Low Pressure Valve Rotor (2030)	x			
228-58063-00	Low Pressure Valve Rotor (2040)	x			
228-35145-00	Metering Pump Seal		x		
228-35010-91	Metering Pump Plunger Assembly			x	
228-56253-42	High Pressure Valve Stator (2030)				x
228-59076-41	High Pressure Valve Stator (2040)				x
228-56098-00	High Pressure Valve Rotor (2030)	x			
228-48854-00	High Pressure Valve Rotor (2040)				x
228-56074-42	100 ul Loop (2030)		x		
228-56074-44	50 uL Loop (2040)		x		
228-41024-99	Needle		x		
228-50390-00	Needle Seal		x		
228-48331-91	Rinse Port Cap (no hole)	x			
228-48331-92	Rinse Port Cap (with hole)	x			

228-48249-96	Inlet Check Valve	x			
228-35146-00	GFP Plunger Seal (2030)	x			
228-32628-91	PE Plunger Seal (2040)	x			
228-35281-97	Sapphire Plunger Assembly	x			
228-55272-41	Diaphragm (2/pack)	x			
228-45705-91	Outlet Check Valve	x			
228-35871-96	Line Filter Assembly		x		

228-55626-00	UV Deuterium Lamp			x	
228-55626-01	PDA Deuterium Lamp			x	
228-35097-95	UV Flow Cell Gaskets (2/pack)		x		
228-35097-96	PDA Flow Cell Gaskets (2/pack)		x		
228-18058-00	UV Optical Window			x	
228-14572-00	UV/PDA Flow Cell Lens			x	

LC-2010A/C

LC-2010AHT

LC-2010CHT

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		
228-39962-93	Suction Filter Assembly with 'C' 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	Rinse 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		
228-36917-01	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	
228-40254-91	High Pressure Valve Stator			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	
228-41024-92	Needle		x	
228-33355-04	Needle Seal (A/C only)		x	
228-41540-01	Needle Seal (HT only)		x	
228-36215-91	Rinse Port Septum (10/pack, A/C only)	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		

228-37401-00	Deuterium Lamp	x		
228-14572-00	Flow Cell Lens		x	
228-35097-95	Flow Cell Gaskets (2/pack)	x		

# | Detectors



## | UV / UV-Vis Detector

### | SPD-20A/SPD-20AV SPD-10Avp/SPD-10AVvp

#### Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years
228-34016-02	Deuterium Lamp		x
670-14602-00	Tungsten Lamp (20AV 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	

### | SPD-10A SPD-10AV

Part No.	Name	1 year	2 years
228-34016-02	Deuterium Lamp		x
670-14602-00	Tungsten Lamp (10AV Only)		x
228-14572-00	Flow Cell Lens	x	
228-23415-01	Flow Cell Gasket	x	

# | Photodiode Array Detector

## | SPD-M30A

Part No.	Name	1 year	2 years
228-54515-00	Deuterium Lamp		x
228-54534-00	Dust Filter	x	

## | SPD-M20A

Part No.	Name	1 year	2 years
228-34016-00	Deuterium Lamp		x
228-34410-91	Tungsten Lamp		x
228-18058-00	Flow Cell Window	x	
228-14572-00	Flow Cell Lens	x	
228-35097-03	Flow Cell Gasket	x	

## | SPD-M10Avp

Part No.	Name	1 year	2 years
228-34016-00	Deuterium Lamp		x
228-34410-91	Tungsten Lamp		x
228-18058-00	Flow Cell Window	x	
228-14572-00	Flow Cell Lens	x	
228-23415-01	Flow Cell Gasket	x	



# | Fluorescence Detector

## | RF-20A RF-20Axs

Part No.	Name	1 year	2 years
228-51511-95	Xenon Lamp		x
228-51147-00	Dust Filter, Side	x	
228-51146-00	Dust Filter, Front	x	

## | RF-10Axl

Part No.	Name	1 year	2 years
228-34216-00	Xenon Lamp		x

# | 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 228-18555-00 nut on DGU end; requires 228-39084-00 nut and 228-12493-00 ferrule on pump end
228-91246-00	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 50mm	
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.

# 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, EA	
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 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 1-Piece 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
228-16004-01	Stainless Steel Union, Prep	
228-16004-03	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
228-18684-00	Union for 3mm Tubing	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	
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 228-16000-84 SS ferrule
228-16000-84	Stainless Steel Ferrules, 3/pack	

## Tools

Part No.	Name	Item Notes
086-03046-02	8x6 mm Wrench	DIV spanner for LC-2010
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
228-25142-00	Seal Installer/Removal Tool	For 6AD, 10 Series, 10 ATvp Pumps and Autosampler Metering Pump
228-18886-00	Seal Installer/Removal Tool	For 20AD and 10ADvp Pumps
228-48735-00	Seal Installer/Removal Tool	For 30AD Pumps
220-97840-00	Peak Loupe 15X Magnifier	For 30AD Pumps
228-54852-00	Diaphragm Jig for LC-30A D Pump	
046-00038-01	20 mL Syringe	
046-00002-00	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	
228-32930-02	Spare PEEK Tubing Cutter Blades	
670-18802-00	SUS Tubing Cutter	

## 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