

Liquid Chromatography

# LC Consumables



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# I HPLC Pumps



## I LC-40D

### Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years
228-45708-91	Suction Filter Assembly (Includes SUS filter, 1.5 mm ID x3 m FEP Tubing and pump inlet fittings)	X	-
228-45707-91	Suction Filter (no tubing)	X	-
228-48249-96	Inlet Check Valve	X	-
228-35146-00	GFP Plunger Seal	X	-
228-32628-91	PE Plunger Seal	X	-
228-35281-97	Saphire Plunger with Diaphragm	X	-
228-55272-41	Diaphragm (2 pack)	X	-
228-45705-43	Outlet Check Valve	X	-
228-53924-06	Air Filter	X	-
228-35871-96	Line Filter	-	X
228-45574-95	Drain Valve	-	-
228-45615-91	Grease for Pump Cam Assembly	-	-

# LC-40DXR / LC-40BXR

## Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years
228-45708-91	Suction Filter Assembly (Includes SUS filter, 1.5 mm ID x3 m FEP Tubing and pump inlet fittings)	X	-
228-45707-91	Suction Filter (no tubing)	X	-
228-48249-96	Inlet Check Valve	X	-
228-52711-93	PE Plunger Seal (Includes Backup Ring)	X	-
228-52069-44	Saphire Plunger with Diaphragm	X	-
228-55272-41	Diaphragm (2 pack)	X	-
228-45705-43	Outlet Check Valve	X	-
228-53924-06	Air Filter	X	-
228-35871-96	Line Filter	-	X
228-51229-93	Drain Valve	-	-
228-45615-91	Grease for Pump Cam Assembly	-	-

# LC-40DXS

## Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years
228-45708-91	Suction Filter Assembly (Includes SUS filter, 1.5 mm ID x3 m FEP Tubing and pump inlet fittings)	X	-
228-45707-91	Suction Filter (no tubing)	X	-
228-52964-42	Inlet Check Valve	X	-
228-52711-93	PE Plunger Seal (Includes Backup Ring)	X	-
228-52069-44	Saphire Plunger with Diaphragm	X	-
228-55272-41	Diaphragm (2 pack)	X	-
228-53334-96	Outlet Check Valve	X	-
228-53924-06	Air Filter	X	-
228-57501-92	Line Filter	-	X
228-51229-93	Drain Valve	-	-
228-45615-91	Grease for Pump Cam Assembly	-	-

# LC-40DX3 / LC-40BX3

## Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years
228-45708-91	Suction Filter Assembly (Includes SUS filter, 1.5 mm ID x3 m FEP Tubing and pump inlet fittings)	X	-
228-45707-91	Suction Filter (no tubing)	X	-
228-52964-42	Inlet Check Valve	X	-
228-52711-9 3	PE Plunger Seal (Includes Backup Ring)	X	-
228-52069-44	Sapphire Plunger with Diaphragm	X	-
228-55272-41	Diaphragm (2 pack)	X	-
228-53334-96	Outlet Check Valve	X	-
228-53924-06	Air Filter	X	-
228-57501-92	Line Filter	-	X
228-51229-93	Drain Valve	-	-
228-45615-91	Grease for Pump Cam Assembly	-	-

# LC-30AD

## Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years
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	
228-52964-95	Inlet Check Valve	x	
228-52711-93	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
228-53184-93	Outlet Tubing, 0.3 x 700mm Drain Valve Assembly	-	-
228-51229-91	Drain Valve Assembly	-	-
228-45615-91	Grease for Pump Cam Assy	-	-

# LC-20AD / LC-20AB / LC-20ADXR

## Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years
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	
228-48249-96	Inlet Check Valve	x	
228-35146-00	GFP Plunger Seal (20AD/20AB only)	x	
228-32628-00	PE Plunger Seal (20AD/AB only)	x	
228-32628-91	PE Plunger Seal (XR only)	x	
228-35601-93	Sapphire Plunger with Grease	x	
228-32784-91	Diaphragm (2/pack)	x	
228-45705-91	Outlet Check Valve	x	
228-35871-96	Line Filter		x
228-45574-95	Drain Valve Assembly (20AD/20AB only)	-	-
228-50450-92	Drain Valve Assembly (XR only)	-	-
228-35281-95	Plunger Assembly for LC-20AD, includes sapphire plunger and nut	-	-
228-45615-91	Grease for Pump Cam Assy	-	-

# LC-20AT

## Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years
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	
228-48249-42	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	
228-48249-96	Inlet Check Valve (SEC in)	x	
228-35871-96	Line Filter		x
228-45574-96	Drain Valve Assembly	-	-
228-45615-91	Grease for Pump Cam Assy	-	-

# LC-20Ai

## Inspection/Maintenance Schedule

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
228-21975-00	PE Plunger Seal		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
228-35009-93	Sapphire Plunger Assembly		x
228-35935-00	PE Rinse Seal		x
228-61830-41	Inlet Check Valve		x
228-32798-91	Outlet Check Valve		x
228-48607-91	PEEK Line Filter Frit	x	
228-61850-41	Drain Valve Assembly	-	-
228-45615-91	Grease for Pump Cam Assy	-	-

# LC-20AR

## Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years
228-45708-91	Suction Filter Assembly (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	
228-21975-00	PE Plunger Seal	x	
228-20284-91	Sapphire Plunger Holder Assembly	x	
228-20282-00	GFP Rinse Seal	x	
228-20283-91	Inlet Check Valve	x	
228-09054-93	Outlet Check Valve	x	
228-55674-00	Air Filter (Left Side)	x	
228-35871-96	Line Filter		x
228-51229-93	Drain Valve Assembly	-	-
228-45615-91	Grease for Pump Cam Assy	-	-

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
228-45574-97	Drain Valve Assembly	-	-
228-45615-91	Grease for Pump Cam Assy	-	-



# HPLC Autosamplers



## SIL-40 / SIL-40C

### Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years	3 years
228-71780-41	High Pressure Valve Rotor	X	-	-
228-56253-44	High Pressure Valve Stator	-	-	X
228-71780-43	Low Pressure Valve Rotor	X	-	-
228-71782-41	Low Pressure Valve Stator	-	-	X
228-51923-00	Low Pressure Valve Stator Packing	-	-	X
228-35145-00	Metering Pump Seal	X	-	-
228-35010-92	Metering Pump Plunger Assembly	-	X	-
228-64909-97	Needle (Uncoated)	X	-	-
228-64364-42	Needle Seal	X	-	-
228-67725-43	Rinse Port Cover	-	X	-
228-67725-41	Rinse Port Cap, No Hole (10/pack)	X	-	-
228-67725-42	Rinse Port Cap, With Hole (10/pack)	X	-	-
228-63132-45	100 µL Loop	-	X	-

# SIL-40XR / SIL-40CXR / SIL-40CXS / SIL-40CX3

## Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years	3 years
228-71780-42	High Pressure Valve Rotor	X	-	-
228-48858-46	High Pressure Valve Stator	-	-	X
228-71780-43	Low Pressure Valve Rotor	X	-	-
228-71782-41	Low Pressure Valve Stator	-	-	X
228-35145-00	Metering Pump Seal	X	-	-
228-35010-92	Metering Pump Plunger Assembly	-	X	-
228-64909-98	Needle (Coated)	X	-	-
228-64364-42	Needle Seal	X	-	-
228-67725-43	Rinse Port Cover	-	X	-
228-67725-41	Rinse Port Cap, No Hole (10/pack)	X	-	-
228-67725-42	Rinse Port Cap, With Hole (10/pack)	X	-	-
228-63132-44	50 µL Loop	-	X	-
228-63132-45	100 µL Loop	-	X	t-

# SIL-30AC / SIL-30ACMP

## Inspection/Maintenance Schedule

Part No.	Name	1 year	2 years	3 years	6 years
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		
228-41024-95	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		
228-48858-95	High Pressure Valve Stator				x
228-52139-00	High Pressure Valve Rotor			x	
228-45402-96	50 µL Loop (30AC only)		x		
228-45402-98	50 µL Loop (30ACMP only)		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			
228-52597-43	Tubing with Preheater, SUS (HPV #5 to CTO-30A only)	-	-	-	-
228-53184-91	Tubing, SUS, 0.1 x 600mm (HPV #5 to CTO-20A/20AC only)	-	-	-	-
228-53184-92	Tubing, SUS, 0.3 x 300mm, Mixer to HPV #6	-	-	-	-

# I SIL-20A / SIL-20AC

## Inspection/Maintenance Schedule

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			
228-35145-00	Metering Pump Seal		x		
228-35010-91	Metering Pump Plunger Assembly		x		
228-41024-93	Needle		x		
228-42325-01	Needle Seal (PEEK - standard)		x		
228-48258-91	Needle Seal (Vespel - optional for GPC)		x		
228-45408-91	High Pressure Valve Stator				x
228-41310-92	High Pressure Valve Rotor			x	
228-45402-95	100 µL Sample Loop (HPV #1 to Needle Block)		x		
228-45402-96	50 µL Sample Loop (optional)		x		
228-45405-93	500 µL Sample Loop (optional)		x		
228-45405-94	2mL Sample Loop (optional)		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			

# I SIL-20AHT / SIL-20ACHT

## Inspection/Maintenance Schedule

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			
228-35145-00	Metering Pump Seal		x		
228-35010-91	Metering Pump Plunger Assembly		x		
228-41024-93	Needle		x		
228-42325-01	Needle Seal (PEEK - standard)		x		
228-45408-93	High Pressure Valve Stator				x
228-41310-92	High Pressure Valve Rotor			x	
228-45402-95	100 µL Sample Loop		x		
228-45402-96	50 µL Sample Loop (optional)		x		
228-45405-93	500 µL Sample Loop (optional)		x		
228-45405-94	2mL Sample Loop (optional)		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			
228-46608-92	Inlet Tubing, SUS, Mixer to HPV #6*	-	-	-	-
228-48464-92	Outlet Tubing, 0.1 ID x 600mm, SUS, HPV #5 to Column	-	-	-	-
228-46609-94	Outlet Tubing, 0.17 ID x 1000mm, SUS, HPV #5 to Column	-	-	-	-
228-46609-93	Outlet Tubing, 0.3 ID x 1000mm, SUS, HPV #5 to Column	-	-	-	-

\*Tubing does not include fittings or ferrules

# SIL-20AXR / SIL-20ACXR

## Inspection/Maintenance Schedule

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			
228-35145-00	Metering Pump Seal		x		
228-35010-91	Metering Pump Plunger Assembly		x		
228-41024-93	Needle		x		
228-50452-93	Needle Seal with Housing		x		
228-50392-00	Housing Cap for SIL-20AXR/SIL-20ACXR	-	-	-	-
228-50390-00	Needle Seal only (must be installed with Housing)		x		
228-48858-91	High Pressure Valve Stator				x
228-48854-00	High Pressure Valve Rotor			x	
228-45402-96	50 µL Sample Loop		x		
228-45402-95	100 µL Sample Loop (optional)		x		
228-45405-93	500 µL Sample Loop (optional) *		x		
228-45405-94	2mL Sample Loop (optional) *		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			
228-48826-92	Outlet Tubing, 0.1 ID x 600mm, SUS, HPV #5 to Column	-	-	-	-
228-46609-94	Outlet Tubing, 0.17 ID x 1000mm, SUS, HPV #5 to Column	-	-	-	-

\* Requires service for hardware changes

# HPLC Detectors



## UV / UV-Vis Detectors

### SPD-40 / SPD-40V

#### Inspection/Maintenance Schedule

Part No.	Name	1 year
228-73407-00	Deuterium Lamp	X
228-73443-00	Tungsten Lamp (SPD-40V Model Only)	X
228-35097-95	Flow Cell Gasket, 2/pack	X
228-73281-41	Flow Cell Lens	X
228-35097-95	Flow Cell Gaskets, 2/pack	x
228-23415-01	Flow Cell Gasket (10A, 10AV)	x

### SPD-20A / SPD-20AV

#### Inspection/Maintenance Schedule

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	

# | Photodiode Array Detectors



## | SPD-M40

### Inspection/Maintenance Schedule

Part No.	Name	1 year
228-63621-02	Deuterium Lamp	X
228-73309-00	Tungsten Lamp	X
228-35097-95	Flow Cell Gasket, 2/pack	X
228-73281-41	Flow Cell Lens	X
228-55674-02	Dust Filter	X

## | SPD-M30A

Part No.	Name	1 year	2 years
228-54515-00	Deuterium Lamp		X
228-54534-00	Dust Filter	X	
228-56433-41	Standard Flow Cell Assembly		

## | 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	
228-35097-96	Flow Cell Gasket (M20A)	x	

## | Fluorescence Detectors

### | RF-20A / RF-20Axs

Part No.	Name	1 year	2 years
228-51511-95	Xenon Lamp (20 Series) 2000 hours		x
228-34216-00	Xenon Lamp (10 Series) 500 hours		x
228-51147-00	Dust Filter, Side (20 Series)	x	
228-51146-00	Dust Filter, Front (20 Series)	x	

## | Conductivity Detectors

### | ICDS-40A Suppressed Anion Detector

Part No.	Name	1 year	2 years
228-74006-41	ICDS-40A Suppressor	x	

# I HPLC Integrated Systems



**i-Series Plus**

## Prominence-i (LC-2030 / LC-2030C)

### Inspection/Maintenance Schedule

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 x 2 m FEP tubing, and pump inlet fittings)	x			
228-45707-91	Suction Filter (no tubing)	x			
228-35146-00	GFP Plunger Seal	x			
228-35281-97	Sapphire Plunger Assembly	x			
228-55272-41	Diaphragm (2/pack)	x			
228-48249-96	Inlet Check Valve	x			
228-45705-91	Outlet Check Valve	x			
228-45574-95	Drain Valve Assembly	-	-		
228-35871-96	Line Filter Assembly		x		
228-55674-00	Air Filter for Side Plates	x			
228-55674-01	Front Air Filter	x			
228-36917-01	Low Pressure Valve Stator				x
228-36923-00	Low Pressure Valve Rotor	x			

Shop online ~ [store.shimadzu.com](http://store.shimadzu.com) or call Shimadzu at 800-477-1227



## Prominence-i (LC-2030 / LC-2030C) continued

Part No.	Name	1 year	2 years	3 years	6 years
228-35145-00	Metering Pump Seal		x		
228-35010-91	Metering Pump Plunger Assembly			x	
228-41024-99	Needle		x		
228-50390-00	Needle Seal		x		
228-56253-42	High Pressure Valve Stator				x
228-56098-00	High Pressure Valve Rotor	x			
228-56074-42	100 uL Sample Loop		x		
228-56074-44	50 uL Sample Loop (Optional)		x		
228-45405-41	500uL Sample Loop (Optional)		x		
228-45405-42	2mL Sample Loop (Optional)		x		
228-48331-91	Rinse Port Cap (no hole)	x			
228-48331-92	Rinse Port Cap (with hole)	x			
228-56217-44	Tubing, SUS, 0.3ID x 600mm	-	-	-	-
228-55626-00	UV Deuterium Lamp			x	
228-35097-95	UV Flow Cell Gaskets (2/pack)		x		
228-18058-00	UV Optical Window			x	
228-14572-00	UV/PDA Flow Cell Lens			x	
228-55626-01	PDA Deuterium Lamp			x	
228-35097-96	PDA Flow Cell Gaskets (2/pack)		x		
228-55674-02	Air Filter for Detector	x			
228-55674-01	Front Air Filter	x			

## Nexera-i (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 x 2 m FEP tubing, and pump inlet fittings)	x			
228-45707-91	Suction Filter (no tubing)	x			
228-32628-91	PE Plunger Seal (2040)	x			
228-35281-97	Sapphire Plunger Assembly	x			
228-55272-41	Diaphragm (2/pack)	x			
228-48249-96	Inlet Check Valve	x			
228-45705-91	Outlet Check Valve	x			
228-51229-93	Drain Valve Assembly	-	-	-	
228-35871-96	Line Filter Assembly		x		
228-55674-00	Air Filter for Side Plates	x			
228-55674-01	Front Air Filter	x			
228-58668-01	Low Pressure Valve Stator				x
228-58063-00	Low Pressure Valve Rotor	x			

## Nexera-i (LC-2040 / LC-2040C) continued

Part No.	Name	1 year	2 years	3 years	6 years
228-35145-00	Metering Pump Seal		x		
228-35010-91	Metering Pump Plunger Assembly			x	
228-41024-99	Needle		x		
228-50390-00	Needle Seal		x		
228-59076-41	High Pressure Valve Stator				x
228-48854-00	High Pressure Valve Rotor	x			
228-56074-44	50 uL Sample Loop		x		
228-56074-42	100 uL Sample Loop (Optional)		x		
228-45405-41	500uL Sample Loop (Optional)		x		
228-45405-42	2mL Sample Loop (Optional)		x		
228-48331-91	Rinse Port Cap (no hole)	x			
228-48331-92	Rinse Port Cap (with hole)	x			
228-53184-91	Tubing, SUS, 0.1ID x 600mm	-	-	-	-
228-55626-00	UV Deuterium Lamp			x	
228-35097-95	UV Flow Cell Gaskets (2/pack)		x		
228-18058-00	UV Optical Window			x	
228-14572-00	UV/PDA Flow Cell Lens			x	
228-55626-01	PDA Deuterium Lamp			x	
228-35097-96	PDA Flow Cell Gaskets (2/pack)		x		
228-55674-02	Air Filter for Detector	x			
228-55674-01	Front Air Filter	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 228-46472-00 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.

# 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
228-16004-01	Stainless Steel Union, Prep	
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
228-18684-00	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 228-16000-17 SS ferrule
228-16000-17	Stainless Steel Ferrules, 3/pack	

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## 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)





## 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
228-44482-00	Pressure Signal Cable, DGU-20A3/5	Required to read DGU pressure from software; connects pump to DGU
228-53485-00	Pressure Signal Cable, DGU-20A3R/5R	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
228-39249-00	Event Cable, 9 wire	For external events with VP series pumps
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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