

**Elemental Scientific**



# Elemental Scientific



Elemental Scientific designs and produces a range of sample introduction systems for the determination of trace element concentrations and isotope ratios in liquid samples when using inductively coupled plasma instrumentation. Our extensive product line contains sample introduction devices for all models of ICPMS and ICPAES instruments, including:

- Innovative SC-Series Clean Intelligent Autosamplers.
- Inert MicroFlow and PolyPro Nebulizers.
- Inert autosampler and manual sampling probes.
- Precision Micro Peristaltic pumps.
- Inert, chemically resistant spray chambers and end caps.
- Demountable o-ring-free injectors made from platinum, sapphire, or quartz.
- Precision and standard quartz ICP torches.
- Apex family of high sensitivity, low contamination sample inlet systems.
- PC<sup>3</sup> Peltier-cooled cyclonic spray chambers.



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Omaha, Nebraska - USA**

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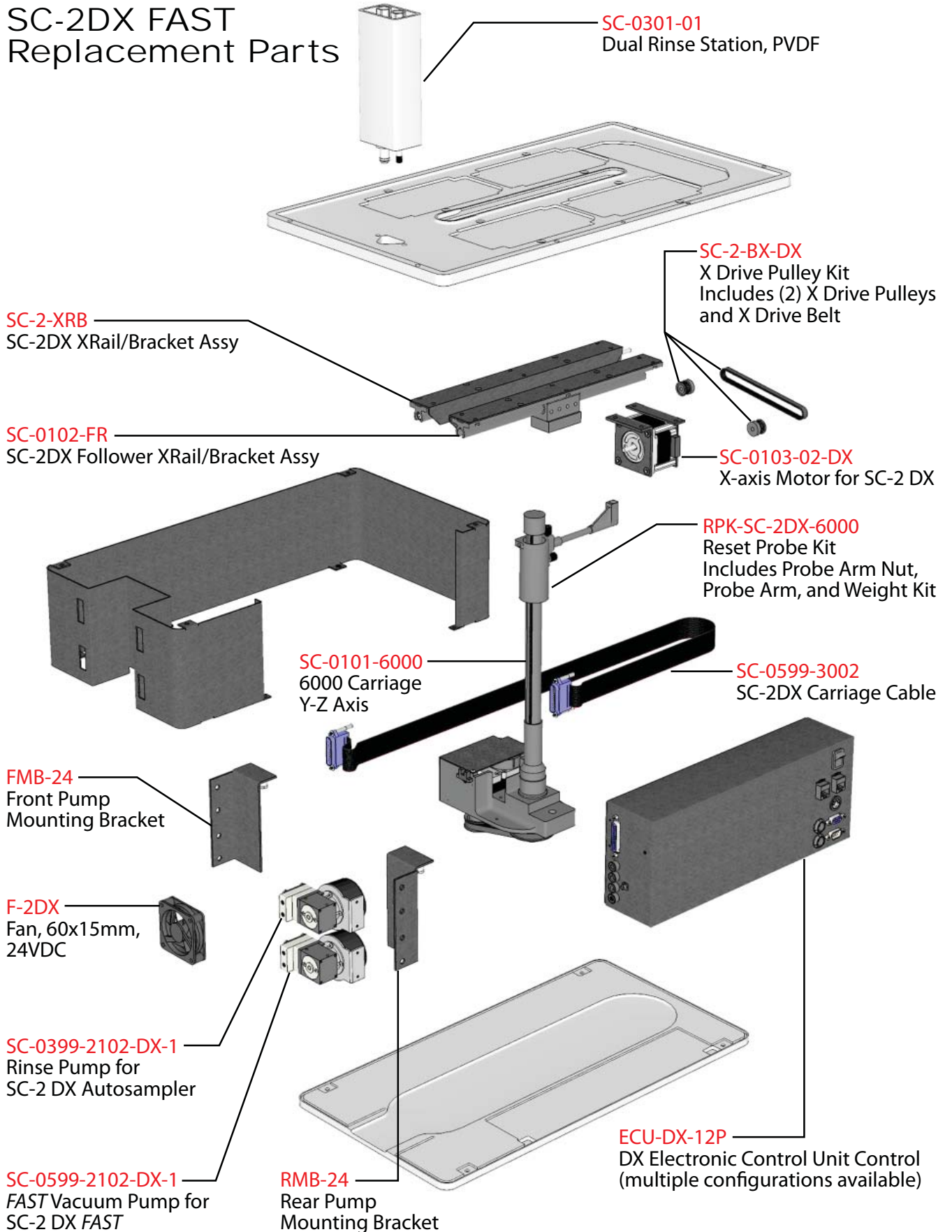
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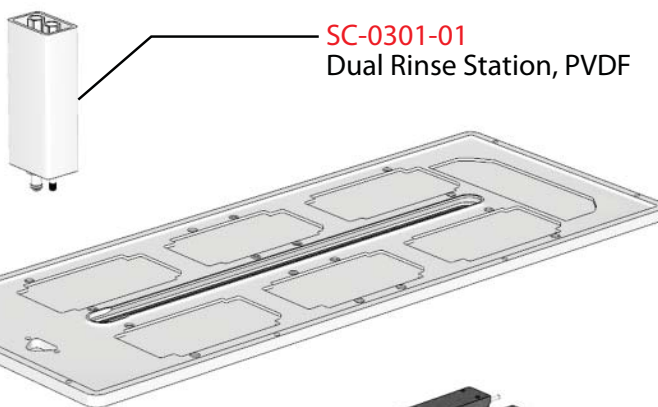
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# SC-2DX FAST Replacement Parts

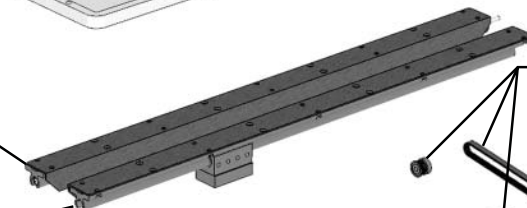


# SC-4DX FAST Replacement Parts

**SC-0301-01**  
Dual Rinse Station, PVDF



**SC-4-XRB**  
SC-4DX XRail/Bracket Assy



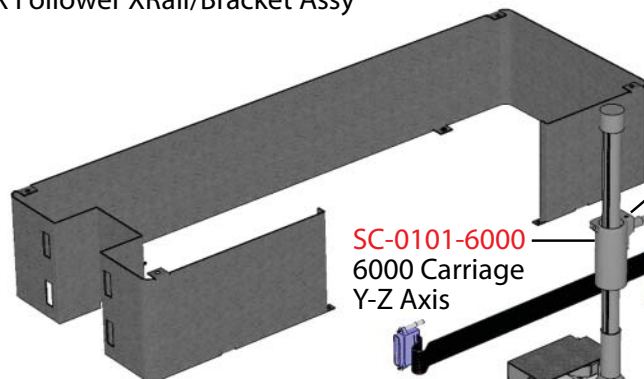
**SC-4-BX-DX**  
X Drive Pulley Kit  
Includes (2) X Drive  
Pulleys and X Drive Belt



**SC-0104-FR**  
SC-4DX Follower XRail/Bracket Assy



**SC-0103-02-DX**  
X-axis Motor for SC-2 DX



**SC-0101-6000**  
6000 Carriage  
Y-Z Axis

**RPK-SC-2DX-6000**  
Reset Probe Kit  
Includes Probe Arm Nut,  
Probe Arm, and Weight Kit

**SC-0599-3004**  
SC-4DX Carriage Cable

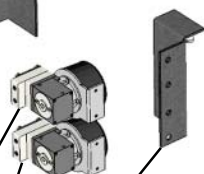
**FMB-24**  
Front Pump  
Mounting Bracket



**F-4DX**  
Fan, 60x15mm,  
24VDC

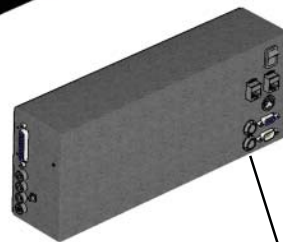
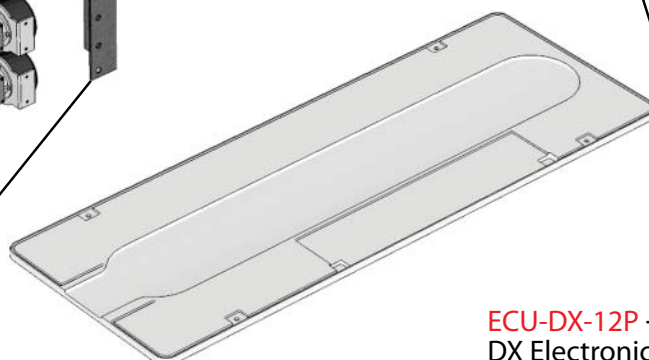


**SC-0399-2104-DX**  
Rinse Pump for  
SC-4 DX Autosampler



**SC-0599-2104-DX**  
FAST Vacuum Pump  
for SC-4 DX FAST

**RMB-24**  
Rear Pump  
Mounting Bracket



**ECU-DX-12P**  
DX Electronic Control Unit Control  
(multiple configurations available)



Resetting Probe Arms	
Part Number	Suggested Use
SC-0105-2DXR	For use with SC-2 DX / SC-4 DX
SC-0105-8DXR	For use with SC-8 DX
SC-0105-14DXR	For use with SC-14 DX
RPW-SC-1	Reset probe weight

Standard arm for SC-DX autosamplers.



XP Probe Arms	
Part Number	Suggested Use
SC-0105-DX-XP	For use with SC-2 DX / SC-4 DX
SC-0105-8DX-XP	For use with SC-8 DX
SC-0105-14DX-XP	For use with SC-14 DX

For use with X Piercing cover (MT-96-XP) and other special applications.



Valve Actuator with RJ45 Connector

Part Number	Suggested Use
SC-0599-1200	SC-FAST

Does not include valve head



Valve Collar (Body Ring)

Part Number	Suggested Use
SC-0599-1010-07	Valve Actuator



Dual Rinse Valve Module

Part Number	Suggested Use
SC-0202-02-DX	For use with SC-2 DX / SC-4 DX (Controls two independent rinse solutions)



### DX FAST Vacuum Pumps

Part Number	Suggested Use
SC-0599-2102-DX	For use with SC-2 DX
SC-0599-2104-DX	For use with SC-4 DX



### FAST Vacuum Pump

Part Number	Suggested Use
SC-0599-2101-DX	For use with SC-8, SC-14, SC-8 DX and SC-14 DX



### DX Rinse Pumps

Part Number	Suggested Use
SC-0399-2102-DX	For use with SC-2 DX
SC-0399-2104-DX	For use with SC-4 DX



### Dual DX Rinse Pumps

Part Number	Suggested Use
SC-0399-4102-DX	For use with SC-2 DX
SC-0399-4104-DX	For use with SC-4 DX



### Rinse Pump

Part Number	Suggested Use
SC-0399-2101-DX	For use with SC-8, SC-14, SC-8 DX and SC-14 DX



### Dual Rinse Valve Module

Part Number	Suggested Use
SC-0399-4101-DX	Used with SC-8, SC-14, SC-8 DX and SC-14 DX for gravity or pressurized rinse



### Rear Pump Mounting Bracket

Part Number	Suggested Use
RMB-24	For use with SC-2 DX / SC-4 DX



### Front Pump Mounting Bracket

Part Number	Suggested Use
FMB-24	For use with SC-2 DX / SC-4 DX



DX Fan	
Part Number	Suggested Use
F-2DX	For use with SC-2 DX
F-4DX	For use with SC-4 DX



Orange Rinse Station Cable 60 cm (24")	
Part Number	Suggested Use
SC-0203-14	For use with SC-8, SC-14, SC-8 DX and SC-14 DX



Xrail / Bracket Assy	
Part Number	Suggested Use
SC-2-XRB	For use with SC-2 DX
SC-4-XRB	For use with SC-4 DX
SC-8-XRB	For use with SC-8 and SC-8 DX
SC-14-XRB	For use with SC-14 and SC-14 DX



Roller Hubs	
Part Number	Suggested Use
MP2-RH-1C	For use with 1 channel MP <sup>2</sup> pump
MP2-RH-2C	For use with 2 channel MP <sup>2</sup> pump
MP2-RH-3C	For use with 3 channel MP <sup>2</sup> pump
MP2-RH-4C	For use with 4 channel MP <sup>2</sup> pump
MP2-RH-6C	For use with 6 channel MP <sup>2</sup> pump
MP2-RH-8C	For use with 8 channel MP <sup>2</sup> pump



Blue FAST Cable 30 cm (12")	
Part Number	Suggested Use
SC-0599-2009	For use with SC-8, SC-14, SC-8 DX and SC-14 DX FAST



Red Patch Cable 60 cm (24")	
Part Number	Suggested Use
SC-0599-2006	For use with SC-8, SC-14, SC-8 DX and SC-14 DX FAST



Guide Rail / Bracket Assy	
Part Number	Suggested Use
SC-0102-FR	For use with SC-2 DX
SC-0104-FR	For use with SC-4 DX
SC-0108-FR	For use with SC-8 DX
SC-0114-FR	For use with SC-14 DX



Tension Kits	
Part Number	Suggested Use
MP2-TK-1	For use with 1 channel MP <sup>2</sup> pump
MP2-TK-2	For use with 2 channel MP <sup>2</sup> pump
MP2-TK-3	For use with 3 channel MP <sup>2</sup> pump
MP2-TK-4	For use with 4 channel MP <sup>2</sup> pump
MP2-TK-6	For use with 6 channel MP <sup>2</sup> pump
MP2-TK-8	For use with 8 channel MP <sup>2</sup> pump





### Carriage to ECU Ribbon Cables

Part Number	Suggested Use
SC-0599-3002	For use with SC-2 DX
SC-0599-3004	For use with SC-4 DX



### Carriage to ECU Ribbon Cable

Part Number	Suggested Use
SC-0599-3008	For use with SC-8, SC-14, SC-8 DX and SC-14 DX



### Electronics Control Units for SC-2, SC-4, SC-8, SC-14, SC-8 DX and SC-14 DX

Part Number	Description
SC-0201-B	ECU for SC-2, SC-4, SC-8, SC-14, SC-8 DX and SC-14 DX
SC-0201-B-FAST	ECU with FAST for SC-8, SC-14, SC-8 DX and SC-14 DX
SC-0201-B-01	ECU FAST upgrade module for SC-8, SC-14, SC-8 DX and SC-14 DX



### Electronics Control Units for SC-2 DX / SC-4 DX

Part Number	Suggested Use
ECU-DX-10P	For use without FAST valve controller
ECU-DX-11P	For use with 1 FAST valve controller
ECU-DX-12P	For use with 2 FAST valve controllers
ECU-DX-13P	For use with 3 FAST valve controllers



### Belt Kits for X-axis

Part Number	Suggested Use
SC-2-BX-DX	For use with SC-2 DX
SC-4-BX-DX	For use with SC-4 DX
SC-8-BX-DX	For use with SC-8 / SC-8 DX
SC-14-BX-DX	For use with SC-14 / SC-14 DX

Each kit includes X-belt and pulleys, set screws and hex wrenches



### X-axis Motors

Part Number	Suggested Use
SC-0103-02-DX	For use with SC-2 DX
SC-0103-04-DX	For use with SC-4 DX



### X-axis Motor

Part Number	Suggested Use
SC-0103-01-DX	For use with SC-8, SC-14, SC-8 DX and SC-14 DX



DX Carriage Assembly	
Part Number	Suggested Use
SC-BCYZ-16-6000	For use with SC-2 DX / SC-4 DX (16 inch)
SC-BCYZ-16-6008	For use with SC-8 DX / SC-14 DX (16 inch)
SC-BCYZ-18-6000	For use with SC-2 DX / SC-4 DX (18 inch)
SC-BCYZ-18-6008	For use with SC-8 DX / SC-14 DX (18 inch)
SC-BCYZ-20-6000	For use with SC-2 DX / SC-4 DX (20 inch)
SC-BCYZ-20-6008	For use with SC-8 DX / SC-14 DX (20 inch)



Enhanced Stability DX Carriage Assy	
Part Number	Suggested Use
SC-BCYZ-16-6S00	For use with SC-2 DX / SC-4 DX (16 inch)
SC-BCYZ-16-6S08	For use with SC-8 DX / SC-14 DX (16 inch)
SC-BCYZ-18-6S00	For use with SC-2 DX / SC-4 DX (18 inch)
SC-BCYZ-18-6S08	For use with SC-8 DX / SC-14 DX (18 inch)
SC-BCYZ-20-6S00	For use with SC-2 DX / SC-4 DX (20 inch)
SC-BCYZ-20-6S08	For use with SC-8 DX / SC-14 DX (20 inch)



Probe Arm Holders	
Part Number	Suggested Use
AH-DX	For use with SC-DX autosampler
AH-DX-2X	For use with SC-DX autosampler (2" extension)



Carriage Bottom Cover	
Part Number	Suggested Use
SC-BCYZ-6000-B	For use with SC-8, SC-14, SC-8 DX and SC-14 DX



Valve Module Cables (8-pin)	
Part Number	Suggested Use
SC-0599-2005-R1	2 m cable that connects to FAST valve module
SC-0599-2005-R2	3 m cable that connects to FAST valve module



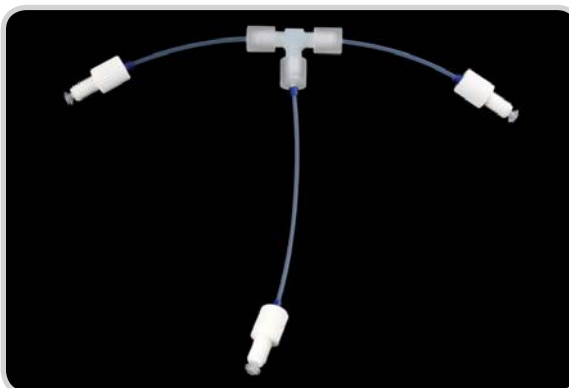
Bench Top Legs	
Part Number	Suggested Use
BTL-8DX-4	For use with SC-8, SC-14, SC-8 DX and SC-14 DX

# RINSE SUPPLIES



### Dual Rinse Stations

Part Number	Suggested Use
SC-0301-02	Used to rinse the probe, PVDF
SC-0301-03	Used to rinse the probe, PFA Teflon



### Single Pumped Rinse lines and Tee for SC-2 DX / SC-4 DX

Part Number	Suggested Use
SC-0302-1800-DX	Connects single pumped rinse 1 and rinse 2 (0.8 mm i.d., blue marker)



### Tygon Rinse Station Drain Line

Part Number	Suggested Use
SC-0303-DX	For use with the SC-DX autosampler, 48" length



### In-line Check Valve

Part Number	Suggested Use
SC-0302-0002	For use with pumped rinse



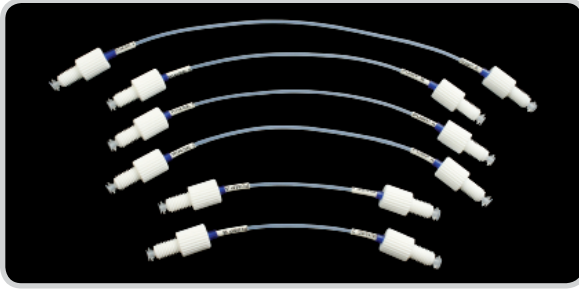
### Primer Syringe

Part Number	Suggested Use
SC-0309	Used with SC rinse station for pressurized and gravity rinse



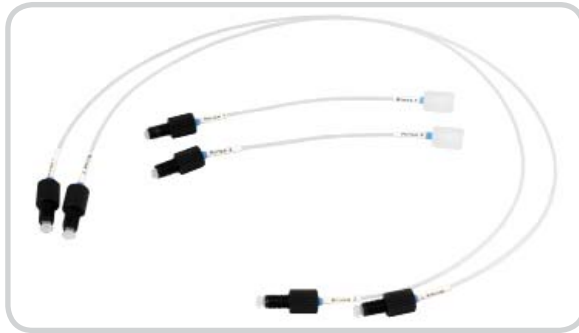
### 1-way Stopcock

Part Number	Suggested Use
SC-0302-01	For use with SC-autosampler rinse lines



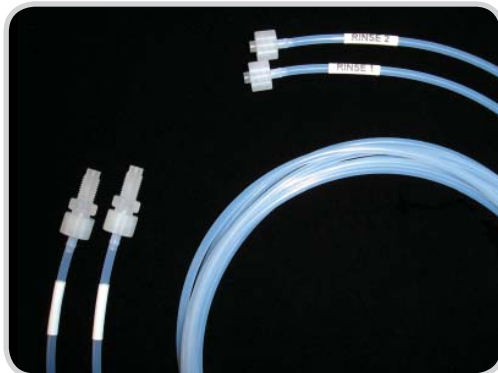
### Dual Valve Rinse lines for SC-2 DX / SC-4 DX

Part Number	Suggested Use
SC-0302-0506	Used with the SC-2 DX / SC-4 DX for pressurized or gravity rinse (0.5 mm Orange marker)
SC-0302-0806	Used with the SC-2 DX / SC-4 DX for pressurized or gravity rinse (0.8 mm Blue marker)



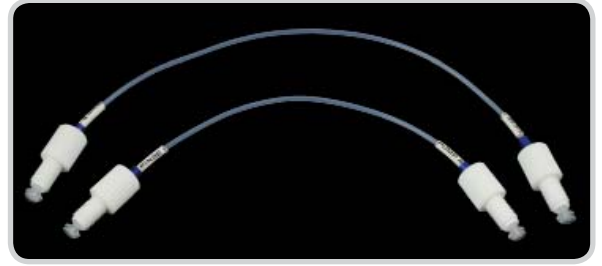
### Dual Valve Rinse lines for SC-8, SC-14, SC-8 DX and SC-14 DX

Part Number	Suggested Use
SC-0302-0504	Used with the SC-8, SC-14, SC-8 DX and SC-14 DX for pressurized or gravity rinse (0.5 mm Orange marker)
SC-0302-0804	Used with the SC-8, SC-14, SC-8 DX and SC-14 DX for pressurized or gravity rinse (0.8 mm Blue marker)



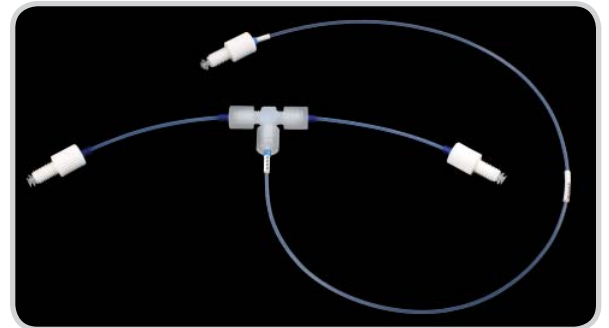
### Dual Rinse Lines

Part Number	Suggested Use
SC-0302-S	Used with gravity fed rinse



### Dual Rinse Pump lines for SC-2 DX / SC-4 DX

Part Number	Suggested Use
SC-0302-0502	For use with the SC-2 DX / SC-4 DX (0.5 mm Orange marker)
SC-0302-0802	For use with the SC-2 DX / SC-4 DX (0.8 mm Blue marker)



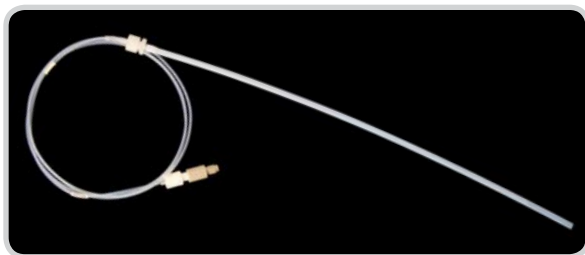
### Single Pumped Rinse lines and Tee for SC-8, SC-14, SC-8 DX and SC-14 DX

Part Number	Suggested Use
SC-0302-05T8	Used with the SC-8 DX / SC-14 DX for single pumped rinse (0.5 mm ID, orange marker)
SC-0302-08T8	Used with the SC-8 DX / 14 DX for single pumped rinse (0.8 mm ID, blue marker)



### Dual Rinse / Gas Line Set

Part Number	Suggested Use
SC-0302-1500	Used with PFA pressurized rinse, 0.5 mm ID (orange marker)
SC-0302-1800	Used with PFA pressurized rinse, 0.8 mm ID (blue marker)



### Single Teflon Rinse Lines ( Pumped Version)

Part Number	Suggested Use
SC-0302-0251	Connects rinse bottle to rinse pump (0.25 mm ID, green marker)
SC-0302-0501	Connects rinse bottle to rinse pump (0.5 mm ID, orange marker)
SC-0302-0801	Connects rinse bottle to rinse pump (0.8 mm ID, blue marker)
SC-0302-1001	Connects rinse bottle to rinse pump (1.0 mm ID, gray marker)



### 4 Liter Polypropylene Rinse Container

Part Number	Suggested Use
SC-0305-1	Holds rinse solution (labeled rinse 1)
SC-0305-2	Holds rinse solution (labeled rinse 2)



### PFA High Pressurized Rinse System Kit

Part Number	Suggested Use
SC-0304-03	Gas pressurized delivery of rinse solutions controlled by valves

### PFA High Pressurized Rinse System Parts

Part Number	Description
V-90-0300	1L PFA bottle for pressurized rinse (Qty 1)
SC-0304-0010	Pressurized rinse system base
ES-4599-5001	Pressure regulator and tubing kit, used with 1L PFA containers (includes low pressure regulator, Teflon gas tubing, tee assemblies, gas fittings, spare luer caps, primer syringe, 3x metal free one-way stopcock)



### Pressurized Rinse Completion Kit for 4L Poly Propylene Bottle

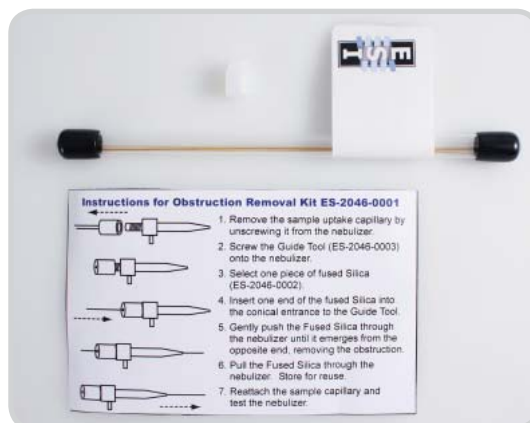
Part Number	Suggested Use
SC-0304-1900	Gas pressurized delivery of rinse solutions controlled by valves. Includes low pressure regulator kit, Teflon gas tubing, tee assemblies, Swage Lok regulator, gas fittings, spare luer caps, primer syringe, 3 1-way stopcock.



## Nebulizer Obstruction Removal Kit

While naturally resistant to obstructions, PFA nebulizers may occasionally require maintenance. Use this kit to safely remove obstructions in all PFA-ST nebulizers for long-term high performance. Never back-flush a PFA-ST nebulizer.

Part Number	Description
ES-2046-0001	Obstruction Removal Kit for ST nebulizers



## Syringe Flush Kit

Syringe kit includes one 3ml syringe, and two luer to 1/4-28" adapters (red = female thread; white = male thread). Use syringe and white adapter to back-flush the carrier line or tee-line. Use syringe and red adapter to forward flush the carrier line, the side port of the tee-line, and to forward flush the PFA nebulizer.






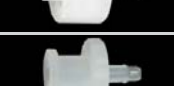
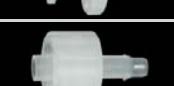




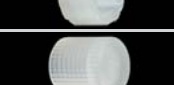









Part Number	Description
SC-0599-0109	Syringe flush kit (Includes 3 mL syringe, two luer to 1/4-28 adapters)



## SC-FAST Spares Kits

Part Number	Description
SC-0370	SC-FAST Complete Spares Kit - Assorted fittings and tubing for FAST systems. Includes a PFA-ST nebulizer, spare FAST valve and internal standard tee.
SC-0380	SC-FAST Basic Spares Kit - Assorted fittings and tubing for FAST systems.



Part Number	Description	Suggested Use	
SC-0599-0116-K	Black nut (1/4-28) and ferrule set for high-flow FAST valve, 1/16". (Qty 10)	Use with 1/16" (1.6 mm) O.D. tubing for low and moderate flow rates (0.1 mL/min - 2 mL/min)	
SC-0599-0108-W	White nut (1/4-28) and ferrule set for high-flow FAST valve, 1/8" (3.2 mm) (Qty 10)	Use with 1/8" (3.2 mm) O.D. tubing for high-flow rates and vacuum applications (> 2 mL/min).	
SC-0599-F16	1/16" Ferrule for high-flow FAST valve (1/4-28) (Qty 10)	Use with 1/16" (1.6 mm) O.D. tubing.	
SC-0599-F08	1/8" Ferrule for high-flow FAST valve (1/4-28) (Qty 10)	Use with 1/8" (3.2 mm) O.D tubing.	
SC-0599-0001	Black, low-flow ferrule-nut (10-32/M5) for low flow FAST valve (Qty 10)	Use with 1/16" (1.6 mm) O.D. tubing for low-flow FAST valve (<0.1 mL/min).	
SC-0599-9003	Small male Luer 2.4 mm barb, PVDF (Qty 10)	Connect ESI nebulizer gas line to female luer fitting.	
SC-0599-9005	Small female Luer 2.4 mm barb, PVDF (Qty 10)	Connects ESI nebulizer gas line to male luer fitting.	
SC-0599-9002	Medium male Luer 3.2 mm barb, PVDF (Qty 10)	Connects 3 mm i.d. tubing to female luer fitting.	
SC-0599-9004	Medium female Luer 3.2 mm barb, PVDF (Qty 10)	Connects 3 mm i.d. tubing to male luer fitting.	
SC-0599-9001	Large male Luer 4.3 mm barb, PVDF (Qty 10)	Connects 4 mm i.d. tubing to female luer fitting.	
SC-0599-9009	Large female Luer 4.3 mm barb, PVDF (Qty 10)	Connects 4 mm i.d. tubing to male luer fitting.	
SC-0599-9006	Female Luer 1/4-28, ETFE (Qty 5)	Connects 1/4-28 FAST valve fitting to male luer fitting.	
SC-0599-9010	Male Luer cap	Cap and seal female luer lock fittings	
SC-0599-9011	1/4-28 cap	Cap and seal male 1/4-28 fittings	
SC-0599-9012	1/4-28 plug	Plug and seal female 1/4-28 fittings	
ES-2501-PPF1	Fluoropolymer peristaltic pump union, small female threads (Qty 1)	Connects small i.d. peripump tubing to male 1/4-28 fitting.	
ES-2501-PPM1	Fluoropolymer peristaltic pump union, small male threads (Qty 1)	Connects small i.d. peripump tubing to female 1/4-28 fitting.	
ES-2501-PPF3	Fluoropolymer peristaltic pump union, medium female threads (Qty 1)	Connects ESI nebulizer gas line or medium peripump tubing to male 1/4-28 fitting.	
ES-2501-PPM3	Fluoropolymer peristaltic pump union, medium male threads (Qty 1)	Connects ESI nebulizer gas line or medium peripump tubing to female 1/4-28 fitting.	
ES-2501-PPF5	Fluoropolymer peristaltic pump union, large female threads (Qty 1)	Connects large peripump tubing to male 1/4-28 fitting.	
ES-2501-PPM5	Fluoropolymer peristaltic pump union, large male threads (Qty 1)	Connects large peripump tubing to female 1/4-28 fitting.	



## MP<sup>2</sup> micro peristaltic pumps

The new ESI micro peristaltic pumps offer advantages over standard peristaltic pumps due to precision machining and a roller configuration that minimizes the gaps between rollers, resulting in more even pressure points along the pump tubing. This pump offers less pulsation in sample delivery, smaller relative standard deviations in signal, and consequently improved detection limits.



**3m 5 pin Quick Connect Cable**

Part Number	Suggested Use
SC-0911	Used to connect an MP <sup>2</sup> to other ESI hardware



**USB to 5 Pin Quick Connect Communications Cable**

Part Number	Suggested Use
SC-0913	Converts USB communications to RS485 communications. For use with MP <sup>2</sup> , continuum and communications hub.



**7 Port RS485 Communication Hub**

Part Number	Suggested Use
SX-2999-7	Provides multiple ports for additional Syrix and MP <sup>2</sup> units



**Power Supply for SC Autosampler / Continuum**

Part Number	Suggested Use
SC-0214	Supplies 24V at 6A to the continuum, autosampler or RS485 Serial Hub





### Roller Hubs

Part Number	Suggested Use
MP2-RH-1C	For use with 1 channel MP <sup>2</sup> pump
MP2-RH-2C	For use with 2 channel MP <sup>2</sup> pump
MP2-RH-3C	For use with 3 channel MP <sup>2</sup> pump
MP2-RH-4C	For use with 4 channel MP <sup>2</sup> pump
MP2-RH-6C	For use with 6 channel MP <sup>2</sup> pump
MP2-RH-8C	For use with 8 channel MP <sup>2</sup> pump



### Tension Kits

Part Number	Suggested Use
MP2-TK-1	For use with 1 channel MP <sup>2</sup> pump
MP2-TK-2	For use with 2 channel MP <sup>2</sup> pump
MP2-TK-3	For use with 3 channel MP <sup>2</sup> pump
MP2-TK-4	For use with 4 channel MP <sup>2</sup> pump
MP2-TK-6	For use with 6 channel MP <sup>2</sup> pump
MP2-TK-8	For use with 8 channel MP <sup>2</sup> pump



### 3m USB Extension Cable

Part Number	Suggested Use
ES-2990-9901	Used to provide greater distance between host computer and ESI hardware



### Power Supply Kit for MP<sup>2</sup> / Nano Peripumps

Part Number	Suggested Use
SC-0216	Supplies 12V at 1.5A to the MP <sup>2</sup> / Nano Peripumps



### Power Supply Kit for MP<sup>2</sup> / Nano Peripumps

Part Number	Suggested Use
SC-0216	Supplies 12V at 1.5A to the MP <sup>2</sup> / Nano Peripumps



### Power Adapter for GPIB Converter

Part Number	Suggested Use
SC-0901-9101	Supplies 12V at 1A to the GPIB Converter



### Power Cords

Part Number	Region
ES-2999-9201	North America / Japan
ES-2999-9202	Europe
ES-2999-9203	UK
ES-2999-9204	China
ES-2999-9205	India
ES-2999-9206	Australia
ES-2999-9207	Switzerland
ES-2999-9208	South Africa



### Power Supply for SC Autosampler / Continuum

Part Number	Suggested Use
SC-0214	Supplies 24V at 6A to the continuum, autosampler or RS485 communication hub
SC-0218	Supplies 24V at 8A to the continuum, autosampler or RS485 communication hub



### Power Supply for Apex

Part Number	Suggested Use
ES-4399-9100	Supplies 12V at 11A to the Apex



### Power Supply for PC<sup>3</sup> / PC<sup>3</sup>-FAST / PC<sup>3</sup>-LT / Spiro

Part Number	Suggested Use
ES-4199-9200	Supplies 12V at 6A to the PC <sup>3</sup> / PC <sup>3</sup> -FAST / PC <sup>3</sup> -LT and Spiro (does not include cord)

# ACCESSORY CABLES



**3m Trigger Cable for SC-DX FAST**

Part Number	Suggested Use
SC-0599-2004-DX	3m trigger cable for SC-DX FAST



**3m DB9 M/F Serial Cable**

Part Number	Suggested Use
SC-0904	3m DB9 Male to Female serial cable



**3m USB Extension Cable**

Part Number	Suggested Use
ES-2990-9901	Used to provide greater distance between host computer and ESI hardware



**USB to Serial Converter**

Part Number	Suggested Use
SC-0905	Used to connect serial devices to USB on the host computer



**DB25M / DB9F Null Modem Cable**

Part Number	Suggested Use
SC-0903	Used to connect two serial devices together



**IEEE GPIB Shielded Cable**

Part Number	Suggested Use
SC-0902	Used to connect GPIB devices



**3m 5 pin Quick Connect Cable**

Part Number	Suggested Use
SC-0911	Used to connect an MP <sup>2</sup> to other ESI hardware



**USB to 5 Pin Quick Connect Communications Cable**

Part Number	Suggested Use
SC-0913	Converts USB communications to RS485 communications. For use with MP <sup>2</sup> , continuum and communications hub.



**7 Port RS485 Communication Hub**

Part Number	Suggested Use
SX-2999-7	Provides multiple ports for additional Syrix and MP <sup>2</sup> units



**Power Supply for SC Autosampler / Continuum**

Part Number	Suggested Use
SC-0214	Supplies 24V at 6A to the autosampler or continuum



**3m USB Extension Cable**

Part Number	Suggested Use
ES-2990-9901	Used to provide greater distance between host computer and ESI hardware



**USB to 5 Pin Quick Connect Communications Cable**

Part Number	Suggested Use
SC-0913	Converts USB communications to RS485 communications. For use with MP <sup>2</sup> , continuum and communications hub.



**Syringe Barrel**

Part Number	Description
SX-0599-2003	0.3 mL, quartz
SX-0599-2030	3 mL, quartz
SX-0599-2100	10 mL, quartz
SX-0599-4003	0.3 mL, PFA
SX-0599-4030	3 mL, PFA
SX-0599-4100	10 mL, PFA



**Syringe Plunger**

Part Number	Description
SX-0599-5003	0.3 mL, PFA
SX-0599-5030	3 mL, PFA
SX-0599-5100	10 mL, PFA



**PTFE mounting adapter**

Part Number	Suggested Use
SX-A-03	Used to mount 0.3 mL syringes to Syrix
SX-A-10	Used to mount 10 mL syringes to Syrix
SX-A-30	Used to mount 3 mL syringes to Syrix
SX-A-33	Used to mount both 0.3 mL and 3 mL syringes to Syrix

# GPIB CONVERTER



### USB to Serial Converter

Part Number	Suggested Use
SC-0905	Used to connect serial devices to USB on the host computer



### GPIB to RS-232 Convert Kit (Address 14)

Part Number	Suggested Use
SC-0901-14	Used to capture and convert autosampler commands from non-ESI software

Includes power adapter for GPIB to RS232 converter, see part number SC-0901-9101 below.



### 3m USB Extension Cable

Part Number	Suggested Use
ES-2990-9901	Used to provide greater distance between host computer and ESI hardware



### Power Adapter for GPIB Converter

Part Number	Suggested Use
SC-0901-9101	Supplies 12V at 1A to the GPIB Converter



### IEEE GPIB Shielded Cable

Part Number	Suggested Use
SC-0902	Used to connect GPIB devices



### DB9 Null Modem Adapters

Part Number	Suggested Use
SC-0906	Used with an existing serial cable to connect 2 serial devices together, F-F
SC-0907	Used with an existing serial cable to connect 2 serial devices together, M-M
SC-0908	Used with an existing serial cable to connect 2 serial devices together, M-F



### DB25M / DB9F Null Modem Cable

Part Number	Suggested Use
SC-0903	Used to connect two serial devices together



## High Flow Valves



**4 Port Valve** P/N: SC-0599-1015

**Description:** CTFE High-flow 4 port valve head for SC-FAST

**Specifications:** CTFE Stator, PTFE Rotor, 0.8 mm

**Applications:** microFAST selection valve, oilFAST



**6 Port Valve** P/N: SC-0599-1010 (PTFE Rotor)  
P/N: SC-0599-1011 (PEEK Composite Rotor)

**Description:** CTFE High-flow 6 port valve head for SC-FAST

**Specifications:** CTFE Stator, PTFE or Composite Rotor, 0.8 mm

**Applications:** Standard FAST, seaFAST, TRUFAST, chromFAST, apexFAST



**6 Port Valve** P/N: SC-0599-1026

**Description:** CTFE High-flow 6 port valve head for SC-FAST

**Specifications:** CTFE Stator, Composite Rotor, 1 mm

**Applications:** Standard FAST, TRUFAST

The new FS valve has the fastest stabilization and rinseout (<5 s)



**6 Port Valve - FS** P/N: SC-0599-1025

**Description:** CTFE High-flow 6 port FS valve head for SC-FAST

**Specifications:** CTFE Stator, Composite Rotor, proprietary valve combines benefits of high-flow with fast stabilization times

**Applications:** Standard FAST, geoFAST, soilFAST



**8 Port Valve** P/N: SC-0599-1013

**Description:** CTFE High-flow 8 port valve head for SC-FAST

**Specifications:** CTFE Stator, PTFE Rotor, 0.8 mm

**Applications:** DINFAST, GDP, sample pre-loading



**10 Port Valve** P/N: SC-0599-1012

**Description:** CTFE High-flow 10 port valve head for SC-FAST

**Specifications:** CTFE Stator, PTFE Rotor, 0.8 mm

**Applications:** Dual loop/dual carrier injection

## Low Flow Valves



### 4 Port Valve P/N: SC-0599-1022

**Description:** Low-flow 4 port valve head for SC-FAST  
**Specifications:** PEEK Stator, Composite Rotor, 0.4 mm  
**Applications:** microFAST



### 6 Port Valve P/N: SC-0599-1008

**Description:** Low-flow 6 port valve head for SC-FAST  
**Specifications:** CTFE Stator, PTFE Rotor, 0.4 mm  
**Applications:** microFAST, DINFAST



### 6 Port Valve P/N: SC-0599-1009

**Description:** Low-flow 6 port valve head for SC-FAST  
**Specifications:** PEEK Stator, Composite Rotor, 0.8 mm  
**Applications:** Low-flow



#### Part Number

See chart below

#### Description

CTFE replacement stator for high-flow valve



#### Part Number

See chart below

#### Description

PTFE rotor for high-flow valve



#### Part Number

See chart below

#### Description

Composite rotor for high-flow valve

## Spare Rotors and Stators for FAST Valves

### HIGH-FLOW VALVE WITH REPLACEMENT STATORS AND ROTORS

P/N Complete Valve	# of Ports	Bore Size	Stator Material	P/N Stator	Rotor Material	P/N Rotor
SC-0599-1015	4	0.8 mm	CTFE	SC-0599-1015-01	PTFE	SC-0599-1015-02
SC-0599-1010	6	0.8 mm	CTFE	SC-0599-1010-01	PTFE	SC-0599-1010-02
SC-0599-1028	6	1 mm	CTFE	SC-0599-1026-01	PTFE	SC-0599-1026-02
SC-0599-1011	6	0.8 mm	CTFE	SC-0599-1010-01	Composite (PEEK/PTFE)	SC-0599-1010-05
SC-0599-1026	6	1 mm	CTFE	SC-0599-1026-01	Composite (PEEK/PTFE)	SC-0599-1026-05
SC-0599-1025	6 - FS	FS	CTFE	SC-0599-1025-01	Composite (PEEK/PTFE)	SC-0599-1025-05
SC-0599-1024	7 - F7	F7	CTFE	SC-0599-1024-01	PTFE	SC-0599-1024-02
SC-0599-1013	8	0.8 mm	CTFE	SC-0599-1013-01	PTFE	SC-0599-1013-02
SC-0599-1027	8	1 mm	CTFE	SC-0599-1027-01	Composite (PEEK/PTFE)	SC-0599-1027-05
SC-0599-1029	9 - F9	F9	CTFE	SC-0599-1029-01	PTFE	SC-0599-1029-02
SC-0599-1012	10	0.8 mm	CTFE	SC-0599-1012-01	PTFE	SC-0599-1012-02

### LOW-FLOW VALVE WITH REPLACEMENT STATORS AND ROTORS

P/N Complete Valve	# of Ports	Bore Size	Stator Material	P/N Stator	Rotor Material	P/N Rotor
SC-0599-1022	4	0.4 mm	PEEK	SC-0599-1022-01	Composite (PEEK/PTFE)	SC-0599-1022-05
SC-0599-1008	6	0.4 mm	CTFE	SC-0599-1008-01	PTFE	SC-0599-1008-02
SC-0599-1009	6	0.8 mm	PEEK	SC-0599-1009-01	Composite (PEEK/PTFE)	SC-0599-1009-05

Other rotor and stator sizes available upon request



## SC-Enclosures



Enclosures protect samples and standards from airborne contamination. An exhaust port (50 mm, included) may be connected to the laboratory ventilation system to exhaust acid fumes and protect the laboratory environment and equipment.



Autosampler Model	Enclosure	Enclosure with ULPA Filter
Enclosure for SC- $\mu$	SC-8106	
Enclosure for SC-2 DX	SC-1207-DX	SC-1207-DX-1200
Enclosure for SC-4 DX	SC-1407-DX	SC-1407-DX-1200
Enclosure for SC-8 DX	SC-1807-DX	SC-1807-DX-1000
Enclosure for SC-14 DX	SC-1107-DX	SC-1107-DX-1030

## Ultra-Low Particulate Air Filter

The ULPA-filter creates a clean, positive pressure environment for samples and standards and prevents airborne contamination. The ULPA (Ultra-Low Particle Arrester) filter removes 99.999% of 0.12 micron particles.

ULPA Filter Specifications		
Air Volume	Noise level	Power
1m <sup>3</sup> /min	56dBA	25W

Part Number	Description
SC-0602	ULPA Filter unit for ESI enclosures. Includes power adapter.
SC-0602-RF	Replacement filter cartridge for ULPA filter





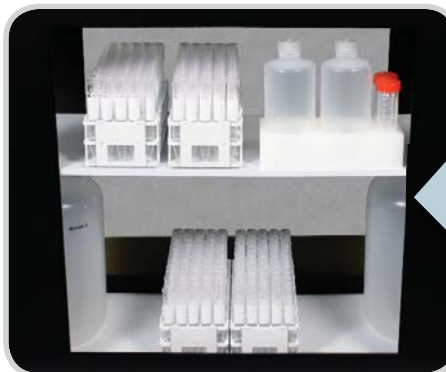
## Mobile Stands for SC-2 and SC-4 DX Autosampler



SC-4 DX on Mobile Stand (SC-1410-DX)



SC-2 DX on Mobile Stand (SC-1210-DX)



Storage space for racks, solutions and accessories



Accessible rinse bottle can be refilled in place

Part Number	Description
SC-1210-DX	Mobile stand for SC-2 DX
SC-1410-DX	Mobile stand for SC-4 DX



## High Efficiency MicroFlow Nebulizers

MicroFlow nebulizers are constructed entirely from chemically resistant fluoropolymers, ideal for strong acids, alkalis, organics, high salt solutions and high solid concentrations. They are resistant to clogging, reliably self-aspirated or pumped and produce a fine aerosol for high transport efficiency and high sensitivity.

### PFA-ST Nebulizer

The PFA-ST Nebulizer features the same high purity, HF resistance, and high performance of the PFA MicroFlow nebulizers, along with an exchangeable external sample uptake capillary. The sample uptake rate is controlled by the diameter of the external capillary or probe.

- Exchangeable uptake capillaries allow one nebulizer to be used at different self-aspiration rates from 20 $\mu$ L/min to 700 $\mu$ L/min.
- All Teflon<sup>®</sup> construction.
- Chemically resistant - ideal for strong acids, alkalis, organics.
- Can be pumped from < 0.1 mL/min to 3.0 mL/min.
- Direct analysis of volatile and non-volatile organic solvents.
- Longer lifetime than glass or quartz nebulizers.



Part Number	Description
ES-2040	Self-aspirating nebulizer with detachable sample capillary

### PolyPro-ST Nebulizer

The PolyPro-ST Nebulizer is a low cost HF resistant alternative to the PFA nebulizers. The PolyPro has lower chemical resistance than the PFA nebulizers but has the same high efficiency aerosol generation. It is a robust nebulizer that can self aspirate with an exchangeable external sample uptake capillary or be used with a peristaltic pump.

Part Number	Description
ES-4040	Self-aspirating nebulizer with external threaded connector



### PFA-ST3 MicroFlow Nebulizer

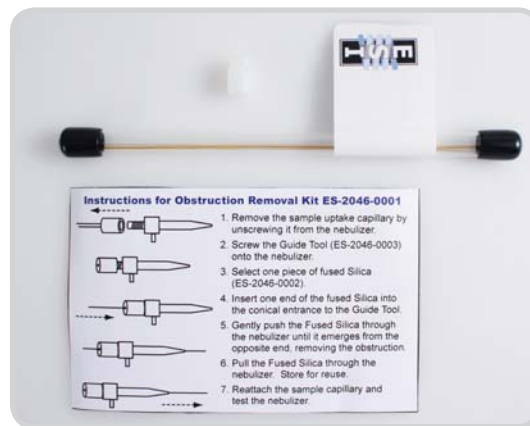
The PFA-ST3 MicroFlow Nebulizer is designed for superior clog resistance and higher sensitivity compared to the standard PFA nebulizer.

Part Number	Description
ST3-70	PFA-ST3 MicroFlow PFA nebulizer with external threaded connector. High performance, clog resistant and chemically inert nebulizer for ICP and ICPMS.



## Nebulizer Obstruction Removal Kit

While naturally resistant to obstructions, PFA nebulizers may occasionally require maintenance. Use this kit to safely remove obstructions in all PFA-ST nebulizers for long-term high performance. Never back-flush a PFA-ST nebulizer.



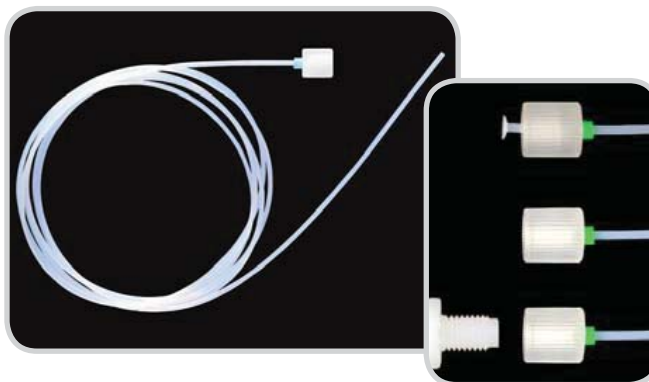
Part Number	Description
ES-2046-0001	Obstruction Removal Kit for ST nebulizers

See page 14 for syringe flush kit

Part Number	Description
ES-2046-0002	Fused silica refill for obstruction removal kit (10 pk)

## Sample Capillaries for ST Nebulizers

I.D.	Self-aspiration rate (@1L/m Ar)	ESI SC
0.15 mm	20 $\mu$ L/min ■ (red)	ES-2045
0.2 mm	50 $\mu$ L/min ■ (purple)	ES-2043
0.25 mm	100 $\mu$ L/min ■ (green)	ES-2042
0.3 mm	200 $\mu$ L/min ■ (yellow)	ES-2047
0.5 mm	400 $\mu$ L/min ■ (orange)	ES-2041
0.8 mm	700 $\mu$ L/min ■ (blue)	ES-2044
1.0 mm	1 mL/min ■ (gray)	ES-2049



## Carbon Fiber Supported Autosampler Probes for ST Nebulizers

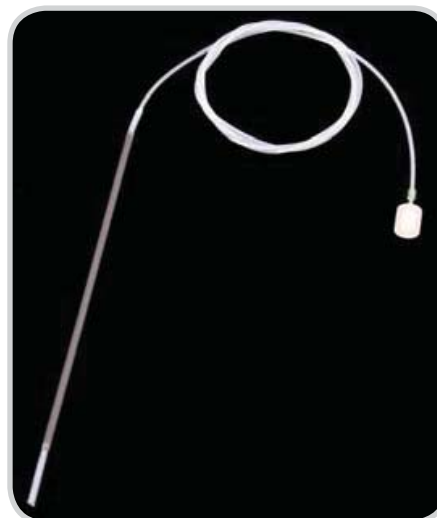
ST Nebulizer probes connect directly to any ST-type nebulizer. The 1/4-28 threaded fitting provides a secure, zero-dead-volume connection with no additional fittings required.

Probes can be custom-made to your specifications of length and materials at no extra charge.

### Self-aspirating Probes with Carbon Fiber Support

Part Number	Description
ES-5037-3155-150	Probe, SC DX version, .15 mm
ES-5037-3205-150	Probe, SC DX version, .20 mm
ES-5037-3255-150	Probe, SC DX version, .25 mm
ES-5037-3305-150	Probe, SC DX version, .30 mm
ES-5037-3505-150	Probe, SC DX version, .50 mm
ES-5037-3755-150	Probe, SC DX version, .80 mm

Also available with Ultem support

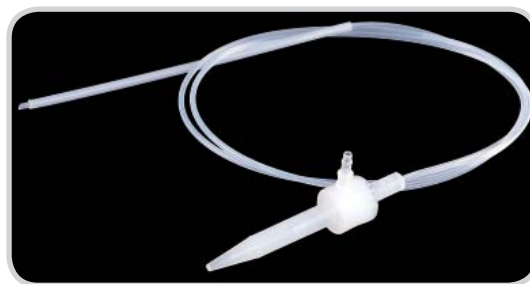


## MicroFlow PFA Self-Aspirating Nebulizers

### PFA Nebulizers with Integrated Capillaries

An integrated capillary PFA nebulizer for self aspiration. PFA MicroFlow nebulizers are constructed entirely from chemically resistant fluoropolymers, ideal for strong acids, alkalis, organics and high salt solutions. They are resistant to clogging, and produce a fine aerosol for high transport efficiency and high sensitivity.

- Integrated capillary for self aspiration, ideal for low-flow, clean applications
- All Teflon® construction
- Chemically resistant - ideal for strong acids, alkalis, organics
- Low, spike free background for important elements such as Fe and Ca
- Produces a fine aerosol for high transport efficiency and high sensitivity
- Direct analysis of volatile and non-volatile organic solvents



### PFA Nebulizers with Integrated Fluoropolymer Capillaries

Model	Part Number	Measured self-aspiration rate (@1L/m Ar)
PFA-20	ES-2020-0002	~ 20 µL/min
PFA-50	ES-2000-0002	~ 50 µL/min
PFA-100	ES-2002-0002	~ 100 µL/min
PFA-200	ES-2003-0002	~ 200 µL/min
PFA-400	ES-2005-0002	~ 400 µL/min

Other flow rates made to order

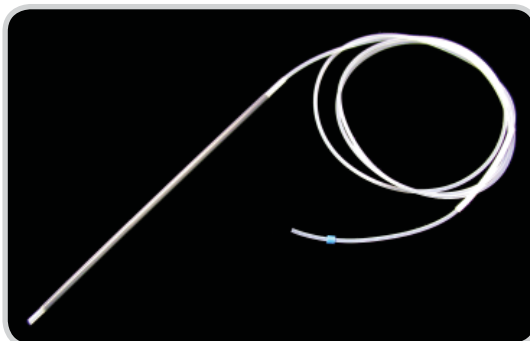
### Apex MicroFlow PFA Self-Aspirating Nebulizers

Part Number	Description	Application
ES-2040-7000	Apex-ST PFA MicroFlow Nebulizer with external 1/4-28 threaded connector	High temperature PFA-ST nebulizer recommended for use with Apex high sensitivity desolvation system.
ES-2002-7000	Apex-100 PFA Nebulizer	High temperature PFA-100 nebulizer with integrated 100 µL/min self aspiration capillary. Recommended for Apex high sensitivity desolvation system.



### Carrier / Internal Standard Probe

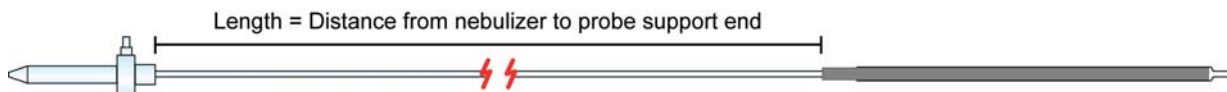
Part Number	Size	Description
SC-5037-3501	0.5 mm i.d. 150 cm long	Carrier probe for SC-FAST valve
SC-5037-3503	0.5 mm i.d.	Internal standard probe for SC-FAST valve



## Self-Aspirating PFA Nebulizers with Integrated Probes

These nebulizers allow self-aspiration at low sample consumption rates with any autosampler while providing the same benefits of the PFA MicroFlow nebulizer. The integrated sampling probe is constructed by encapsulating a rigid support material between layers of Teflon® to provide a chemically resistant probe that is mechanically stable and resilient.

Probes can be custom-made to your specifications of length and materials at no extra charge.



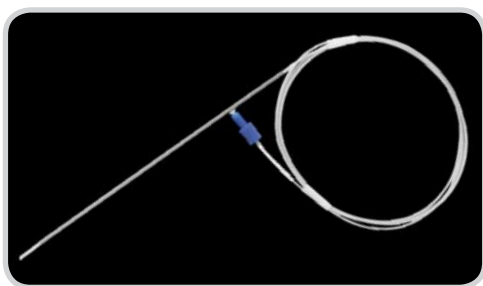
### PFA MicroFlow Nebulizer with Integrated Autosampler Probe (Carbon Fiber support) (Environmental/Clinical Applications)

### PFA MicroFlow Nebulizer with Integrated Autosampler Probe (Ultem support) (High Purity Semiconductor Applications)

Model	Self-aspiration rate (@1L/m Ar)	For SC Autosampler
PFA-20	~ 20 µL/min	ES-2020-3503-150
PFA-50	~ 50 µL/min	ES-2000-3503-150
PFA-100	~ 100 µL/min	ES-2002-3503-150
PFA-200	~ 200 µL/min	ES-2003-3503-150
PFA-400	~ 400 µL/min	ES-2005-3503-150

Model	Self-aspiration rate (@1L/m Ar)	For SC Autosampler
PFA-20	~ 20 µL/min	ES-2020-3505-150
PFA-50	~ 50 µL/min	ES-2000-3505-150
PFA-100	~ 100 µL/min	ES-2002-3505-150
PFA-200	~ 200 µL/min	ES-2003-3505-150
PFA-400	~ 400 µL/min	ES-2005-3505-150

The above are also available with PEEK support.



### FAST Sample Probe

Part Number	Size	Description
SC-5037-3755-150	0.8 mm i.d., 150 cm, blue marker	Carbon fiber support Teflon® SC autosampler probes for high-flow SC-FAST valve
SC-5037-3995-150	1.0 mm i.d., 150 cm, gray marker	



### FAST Sample Probe Extension

Part Number	Size
SC-2044-50	0.8 mm i.d., 50 cm, blue marker
SC-2049-50	1.0 mm i.d., 50 cm, gray marker



## Super Rack Vials & Bottles



Part Number	Qty	Description
V-28-0360-V	5	20 mL PFA bottle and cap, 28 mm o.d.



Part Number	Qty	Description
V-50-0360	1	125 mL PFA bottle and cap with TFM insert, 50 mm o.d.



Part Number	Qty	Description
V-61-0660-XII	12	250 mL narrow mouth bottle, polyethylene, 61 mm o.d.
V-61-0661-XII	12	250 mL wide mouth bottle, polyethylene, 61 mm o.d.



Part Number	Qty	Description
V-31-15-X	10	15 mL PFA sample vial, 30 mm o.d.
V-31-30-X	10	30 mL PFA sample vial, 30 mm o.d.
V-31-60-X	10	60 mL PFA sample vial, 30 mm o.d.
V-31-SC-X	10	Screwcap for 30 mm PFA sample vials



Part Number	Qty	Description
V-16-0225-L	50	15 mL polypropylene vial with screw cap, 16 mm o.d.
V-16-0225-D	500	

## Vials for Standards Racks



Part Number	Qty	Description
V-28-0260-L	50	50 mL polypropylene vial with screw cap, 28 mm o.d.
V-28-0260-D	500	



Part Number	Qty	Description
V-61-0661-XII	12	250 mL wide mouth bottle, polyethylene, 61 mm o.d.

## Vials for Large Racks



Part Number	Qty	Description
V-28-0260-L	50	50 mL polypropylene vial with screw cap, 28 mm o.d.
V-28-0260-D	500	



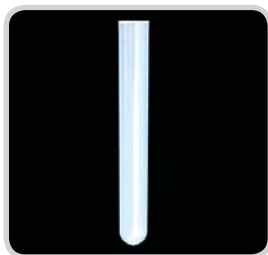
Part Number	Qty	Description
V-20-0290-L	50	20 mL polypropylene vial with screw cap, 20 mm o.d.
V-20-0290-D	500	



Part Number	Qty	Description
V-16-0225-L	50	15 mL polypropylene vial with screw cap, 16 mm o.d.
V-16-0225-D	500	



Part Number	Qty	Description
V-13-0500-R-D	500	8 mL polystyrene tube with rounded bottom, 13 mm o.d.

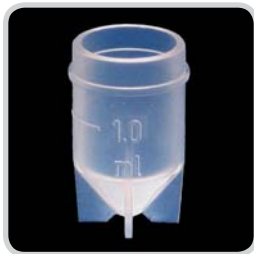


Part Number	Qty	Description
V-13-0200-R-D	500	8 mL polypropylene tube with rounded bottom, 13 mm o.d.



Part Number	Qty	Description
V-16-0200R-M	1000	12 mL polypropylene tube, 16 mm o.d.

## PFA Vials for Micro Racks



Part Number	Qty	Description
V-14-0311CG-X	10	1 mL PFA vial, 14 mm o.d.



Part Number	Qty	Description
ES-7225-0001	1	ETFE Tweezers for dust cap removal



Part Number	Qty	Description
V-14-0312CG-X	10	2 mL PFA vial, 14 mm o.d.



Part Number	Qty	Description
V-14-0301-X	10	PFA cap for 14mm graduated vials



Part Number	Qty	Description
V-14-0314CG-X	10	4 mL PFA vial, 14 mm o.d.

All three micro rack vials fit into the following micro racks:

- MR-21-14
- MR-21-14-08
- MR-40-14





Part Number	Qty	Description
V-14-0309-X	10	PFA cap for 14 mm vials



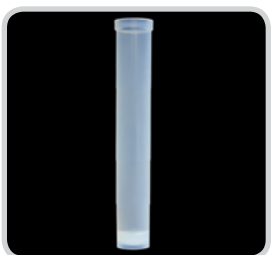
Part Number	Qty	Description
V-14-0300-X	10	PFA cap for 15 mm graduated vials



Part Number	Qty	Description
V-27-0360	5	PFA bottle with TFM insert, 25 mL, 27 mm o.d.



Part Number	Qty	Description
V-16-0300	10	PFA tube, 12 mL, 16 mm o.d.



Part Number	Qty	Description
V-16-0301	50	12 mL PFA sample vial, 16 mm o.d.



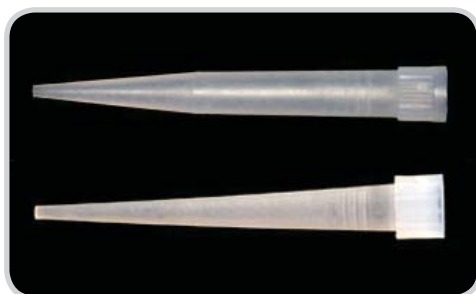
### FAST Solutions Organizer Kit

Part Number	Suggested Use
SC-0304-03	Used to organize FAST solutions. Kit includes holder, FAST internal standard bottle (500 mL), carrier solution bottle (500 mL) and rinse vials (50 mL)

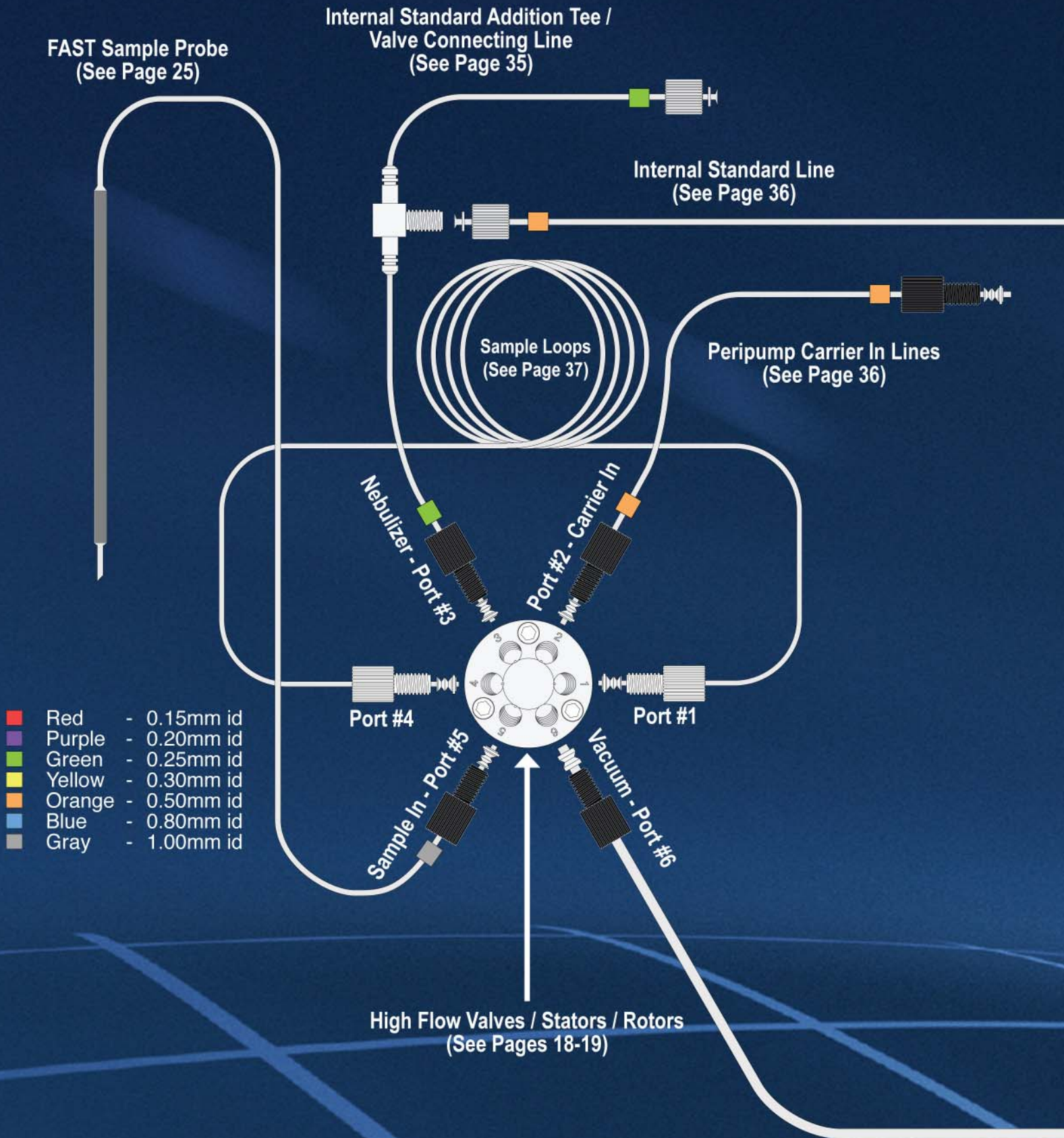
### FAST Solutions Organizer Kit Parts

Part Number	Description
SC-0304-0012	Replacement holder
V-76-0290	500 mL polypropylene bottle with ported cap labeled "FAST Internal Standard"
V-76-0291	500 mL polypropylene bottle with ported cap labeled "FAST Carrier Solution"

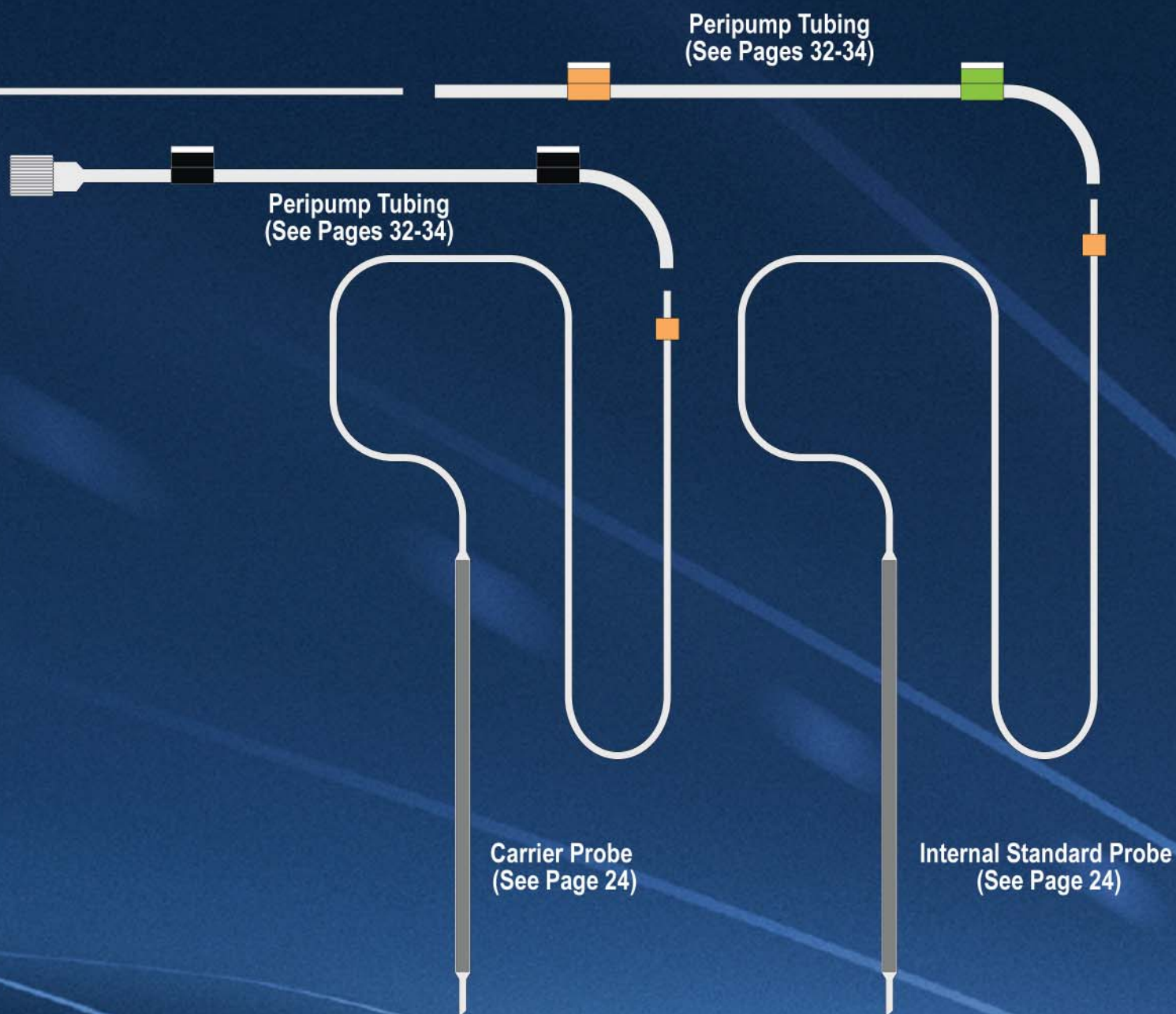
See page 31 for replacement rinse vials (50 mL)

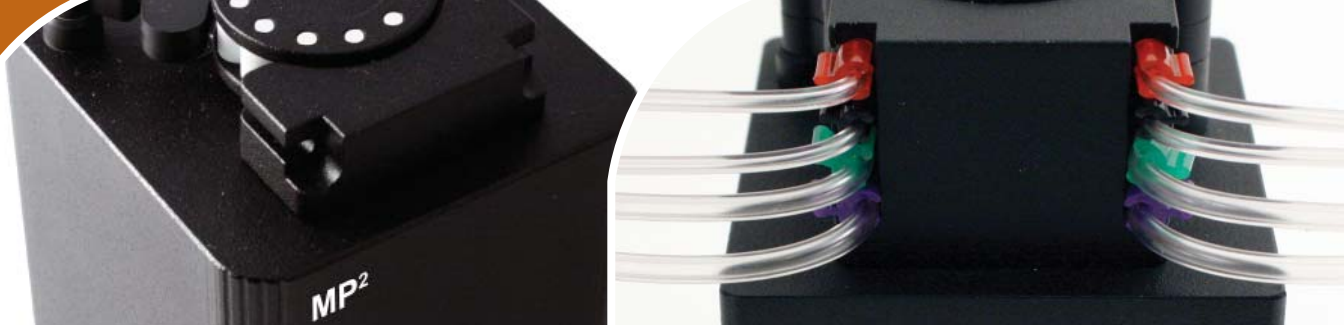


Part Number	Volume	Qty	Description
ES-7000-0101	100µL	10 pk	Pre-cleaned PFA Pure Tip pipette tips 100µL
ES-7000-1001	1000µL	10 pk	Pre-cleaned PFA Pure Tip pipette tips 1000µL



# FAST-Basic





2-stop Tubing for MP<sup>2</sup> Micro Peristaltic Pumps (Packs of 12)

i.d.	Stop Colors		Calibration Slope ( $\mu\text{L}/\text{min}$ per RPM)	Non-Flared			Flared*	
				PVC 2-stop	Santoprene 2-stop	Solva 2-stop	PVC 2-stop	SOLVA 2-stop
0.13 mm	Orange	Black	0.6	MPP-013-PVC			MPP-013-F-PVC	MPP-013-F-S
0.19 mm	Orange	Red	1.3	MPP-019-PVC			MPP-019-F-PVC	MPP-019-F-S
0.27 mm	Orange	Blue	2.7	MPP-027-PVC			MPP-027-F-PVC	MPP-027-F-S
0.38 mm	Orange	Green	4.7	MPP-038-PVC	MPP-038-PHR		MPP-038-F-PVC	MPP-038-F-S
0.44 mm	Green	Yellow	7.6	MPP-044-PVC			MPP-044-F-PVC	MPP-044-F-S
0.51 mm	Orange	Yellow	9.5	MPP-051-PVC			MPP-051-F-PVC	MPP-051-F-S
0.57 mm	White	Yellow	11	MPP-057-PVC			MPP-057-F-PVC	MPP-057-F-S
0.64 mm	Orange	White	14	MPP-064-PVC			MPP-064-F-PVC	MPP-064-F-S
0.76 mm	Black	Black	19	MPP-076-PVC	MPP-076-PHR	MPP-076-S	MPP-076-F-PVC	MPP-076-F-S
0.89 mm	Orange	Orange	24	MPP-089-PVC		MPP-089-S	MPP-089-F-PVC	MPP-089-F-S
0.95 mm	White	Black	28	MPP-095-PVC		MPP-095-S	MPP-095-F-PVC	MPP-095-F-S
1.02 mm	White	White	31	MPP-102-PVC		MPP-102-S	MPP-102-F-PVC	MPP-102-F-S
1.09 mm	White	Red	33	MPP-109-PVC		MPP-109-S	MPP-109-F-PVC	MPP-109-F-S
1.14 mm	Red	Red	35	MPP-114-PVC		MPP-114-S	MPP-114-F-PVC	
1.22 mm	Red	Grey	46	MPP-122-PVC		MPP-122-S		
1.30 mm	Grey	Grey	47	MPP-130-PVC	MPP-130-PHR	MPP-130-S		
1.42 mm	Yellow	Yellow	50	MPP-142-PVC		MPP-142-S		
1.52 mm	Yellow	Blue	51	MPP-152-PVC	MPP-152-PHR	MPP-152-S		
1.65 mm	Blue	Blue	55	MPP-165-PVC		MPP-165-S		
1.75 mm	Blue	Green	58	MPP-175-PVC		MPP-175-S		
1.85 mm	Green	Green	61	MPP-185-PVC		MPP-185-S		
2.06 mm	Purple	Purple	64	MPP-206-PVC		MPP-206-S		
2.20 mm	Purple	Black	65	MPP-220-PVC		MPP-220-S		
2.54 mm	Purple	Orange	67	MPP-254-PVC		MPP-254-S		
2.79 mm	Purple	White	69	MPP-279-PVC		MPP-279-S		
3.17 mm	Black	White	70	MPP-317-PVC	MPP-317-PHR	MPP-317-S		
<b>Bridge Length</b>				72 mm	72 mm	72 mm	72 mm	72 mm

\*For easy insertion of Teflon<sup>®</sup> capillaries **MPP-idd** **idd** = internal diameter

### MP<sup>2</sup> PUMP TUBING STARTER KIT

Part Number	Description
MPP-K-1	MP <sup>2</sup> Pump Tubing Starter Kit comprising 34 packs of 12 tubes, one package of each light-orange highlighted part number in the table above. <b>Includes:</b> 26 packs of PVC tubing (0.13 to 3.17 mm i.d.) 3 packs of Santoprene tubing and 5 packs of Solva tubing. <b>Kit also includes:</b> 20 CTFE Fluoropolymer Peripump Fittings (5 each ES-2501-PPF1, 5 each ES-2501-PPM1, 5 each ES-2501-PPF5 and 5 each ES-2501-PPM5).



2-Stop Tubing for Large Peristaltic Pumps (Packs of 12)

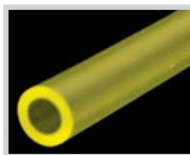
i.d.	Stop Colors		Non-Flared			Flared
			PVC 2-stop	Santoprene 2-stop	Solva 2-stop	PVC 2-stop
0.13 mm	Orange	Black	ES-4398-1013			ES-4397-1013
0.19 mm	Orange	Red	ES-4398-1019			ES-4397-1019
0.27 mm	Orange	Blue	ES-4398-1027	ES-4398-2027		ES-4397-1027
0.38 mm	Orange	Green	ES-4398-1038	ES-4398-2038		ES-4397-1038
0.44 mm	Green	Yellow	ES-4398-1044			ES-4397-1044
0.51 mm	Orange	Yellow	ES-4398-1051	ES-4398-2051		ES-4397-1051
0.57 mm	White	Yellow	ES-4398-1057			ES-4397-1057
0.64 mm	Orange	White	ES-4398-1064	ES-4398-2064		ES-4397-1064
0.76 mm	Black	Black	ES-4398-1076	ES-4398-2076	ES-4396-3076	ES-4397-1076
0.89 mm	Orange	Orange	ES-4398-1089	ES-4398-2089		ES-4397-1089
0.95 mm	White	Black	ES-4398-1095			ES-4397-1095
1.02 mm	White	White	ES-4398-1102	ES-4398-2102		ES-4397-1102
1.09 mm	White	Red	ES-4398-1109			ES-4397-1109
1.14 mm	Red	Red	ES-4398-1114	ES-4398-2114	ES-4396-3114	ES-4397-1114
1.22 mm	Red	Grey	ES-4398-1122			ES-4397-1122
1.30 mm	Grey	Grey	ES-4398-1130	ES-4398-2130		ES-4397-1130
1.42 mm	Yellow	Yellow	ES-4398-1142	ES-4398-2142		ES-4397-1142
1.52 mm	Yellow	Blue	ES-4398-1152	ES-4398-2152		ES-4397-1152
1.65 mm	Blue	Blue	ES-4398-1165	ES-4398-2165		
1.75 mm	Blue	Green	ES-4398-1175			
1.85 mm	Green	Green	ES-4398-1185	ES-4398-2185		
2.06 mm	Purple	Purple	ES-4398-1206	ES-4398-2206		
2.20 mm	Purple	Black	ES-4398-1220	ES-4398-2220		
2.54 mm	Purple	Orange	ES-4398-1254	ES-4398-2254		
2.79 mm	Purple	White	ES-4398-1279	ES-4398-2279		
3.17 mm	Black	White	ES-4398-1317			
<b>Bridge Length</b>			150 mm	150 mm	150 mm	150 mm



PVC



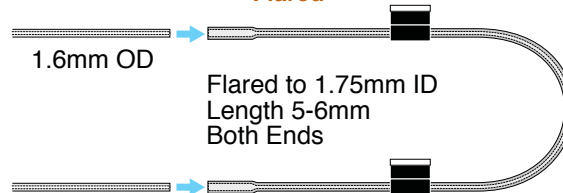
Santoprene

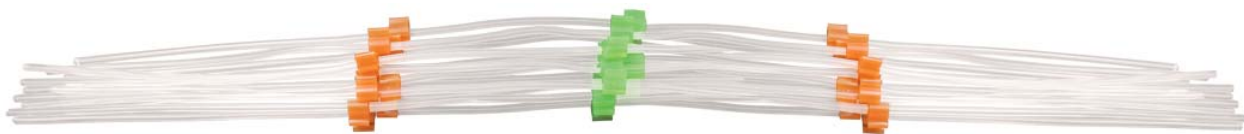


SOLVA

Non-Flared

Flared



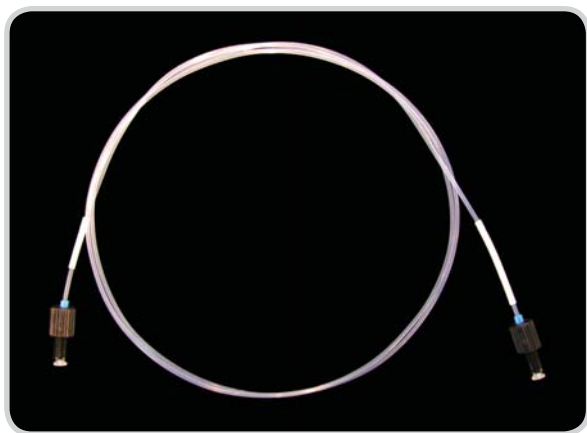


3-Stop Tubing for Peristaltic Pumps (Packs of 12)

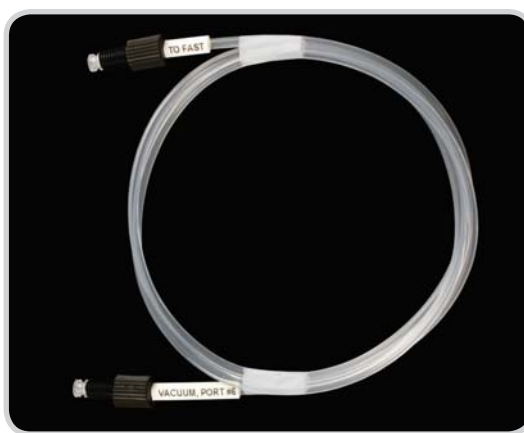
i.d.	Stop Colors			Non-Flared		Flared
				PVC 3-stop	Santoprene 3-stop	PVC 3-stop
0.13 mm	Orange	Black	Orange	ES-4398-3013		ES-4397-3013
0.19 mm	Orange	Red	Orange	ES-4398-3019		ES-4397-3019
0.27 mm	Orange	Blue	Orange	ES-4398-3027		ES-4397-3027
0.38 mm	Orange	Green	Orange	ES-4398-3038	ES-4398-4038	ES-4397-3038
0.44 mm	Green	Yellow	Green	ES-4398-3044		ES-4397-3044
0.51 mm	Orange	Yellow	Orange	ES-4398-3051	ES-4398-4051	ES-4397-3051
0.57 mm	White	Yellow	White	ES-4398-3057		ES-4397-3057
0.64 mm	Orange	White	Orange	ES-4398-3064	ES-4398-4064	ES-4397-3064
0.76 mm	Black	Black	Black	ES-4398-3076	ES-4398-4076	ES-4397-3076
0.89 mm	Orange	Orange	Orange	ES-4398-3089	ES-4398-4089	ES-4397-3089
0.95 mm	White	Black	White	ES-4398-3095		ES-4397-3095
1.02 mm	White	White	White	ES-4398-3102	ES-4398-4102	ES-4397-3102
1.09 mm	White	Red	White	ES-4398-3109		ES-4397-3109
1.14 mm	Red	Red	Red	ES-4398-3114	ES-4398-4114	ES-4397-3114
1.22 mm	Red	Grey	Red	ES-4398-3122		ES-4397-3122
1.30 mm	Grey	Grey	Grey	ES-4398-3130	ES-4398-4130	ES-4397-3130
1.42 mm	Yellow	Yellow	Yellow	ES-4398-3142	ES-4398-4142	ES-4397-3142
1.52 mm	Yellow	Blue	Yellow	ES-4398-3152	ES-4398-4152	ES-4397-3152
1.65 mm	Blue	Blue	Blue	ES-4398-3165		
1.75 mm	Blue	Green	Blue	ES-4398-3175		
1.85 mm	Green	Green	Green	ES-4398-3185	ES-4398-4185	
2.06 mm	Purple	Purple	Purple	ES-4398-3206		
2.20 mm	Purple	Black	Purple	ES-4398-3220		
2.54 mm	Purple	Orange	Purple	ES-4398-3254		
2.79 mm	Purple	White	Purple	ES-4398-3279		
3.17 mm	Black	White	Black	ES-4398-3317		
<b>Bridge Length</b>				72 mm	72 mm	72 mm

High-Purity PFA Tubing (5 m coil)			
Part Number	I.D.	O.D.	Color Code
5MT-015	0.006" (0.15 mm)	1/16" (1.6 mm)	■ (red)
5MT-02	0.008" (0.2 mm)	1/16" (1.6 mm)	■ (purple)
5MT-025	0.010" (0.25 mm)	1/16" (1.6 mm)	■ (green)
5MT-03	0.014" (0.3 mm)	1/16" (1.6 mm)	■ (yellow)
5MT-05	0.019" (0.5 mm)	1/16" (1.6 mm)	■ (orange)
5MT-08	0.031" (0.8 mm)	1/16" (1.6 mm)	■ (blue)
5MT-1	0.039" (1.0 mm)	1/16" (1.6 mm)	■ (gray)
5MT-16	0.063" (1.6 mm)	1/8" (3.2 mm)	





Part Number	Description
SC-0321	Vacuum line for SC-FAST high flow valve (#6) 1/4-28 fitting, 1.6 mm OD x 0.8 mm ID tubing



Part Number	Description
SC-0321-32	Vacuum line for SC-FAST high flow valve (#6) 1/4-28 fitting, 3.2 mm OD x 1.6 mm ID tubing

### Low Volume Internal Standard Addition Tee

Specially designed mixing tee is perfect for online addition of internal standard or online dilution. Achieves excellent mixing with minimal dead volume. 0.5 mm i.d. capillary is recommended for applications with flow rates > 1.0 mL/min.

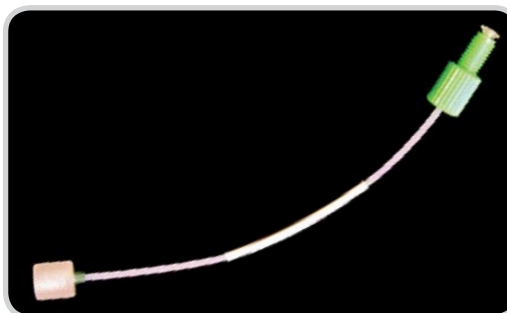


SC-FAST internal standard addition tees for ST nebulizer, connects to port #3 (1/4-28 fitting)

Part Number	Description
SC-0317-1150	0.15 ID (red marker)
SC-0317-1200	0.2 ID (purple marker)
SC-0317-1250	0.25 ID (green marker)
SC-0317-1250-25	0.25 ID (green marker), 25 cm length for FAST DXi
SC-0317-1500	0.5 ID (orange marker)
SC-0317-1500-25	0.5 ID (orange marker), 25 cm length for FAST DXi

### Low Volume FAST Valve Nebulizer Line

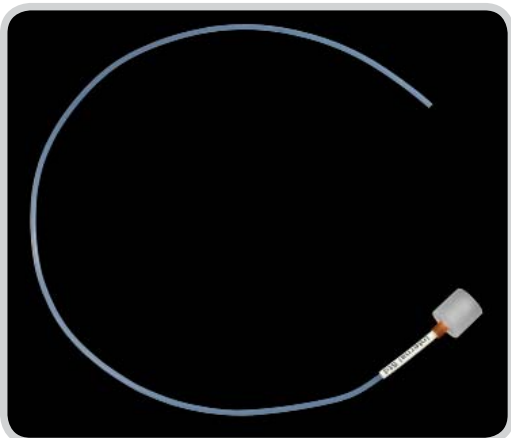
Connects the FAST valve to an ST nebulizer to achieve fast signal stabilization time and short wash times.



ST nebulizer lines, connects to port #3 (1/4-28 fitting)

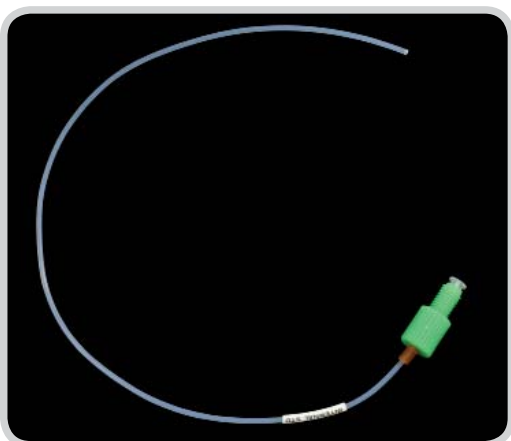
Part Number	Description
SC-0317-0150	0.15 ID (red marker)
SC-0317-0200	0.2 ID (purple marker)
SC-0317-0250	0.25 ID (green marker)
SC-0317-0250-25	0.25 ID (green marker), 25 cm length for FAST DXi
SC-0317-0300	0.3 ID (yellow marker)
SC-0317-0500	0.5 ID (orange marker)
SC-0317-0500-25	0.5 ID (orange marker), 25 cm length for FAST DXi

\*Call for other diameter and lengths



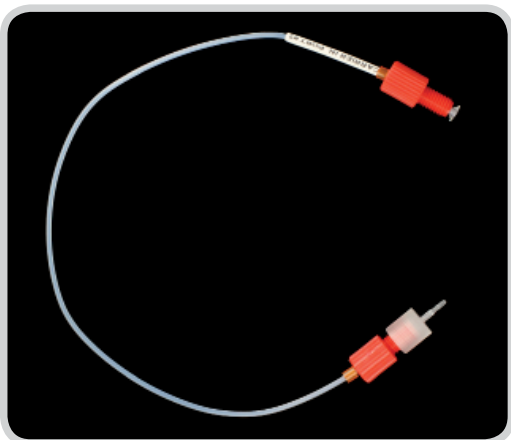
**Internal Standard Line for high-flow SC-FAST, connects internal standard tee to peripump tubing, (1/4-28 fitting)**

Part Number	Description
SC-0317-3200	0.2 mm ID (purple marker)
SC-0317-3200-010	0.2 mm ID (purple marker), 10 cm length for FAST DXi
SC-0317-3250	0.25 mm ID (green marker)
SC-0317-3250-010	0.25 mm ID (green marker), 10 cm length for FAST DXi
SC-0317-3500	0.5 mm ID (orange marker)
SC-0317-3500-010	0.5 mm ID (orange marker), 10 cm length for FAST DXi



**Internal Standard Line for high-flow SC-FAST, connects F7 / F9 valve to peripump tubing, (1/4-28 fitting)**

Part Number	Description
SC-0317-4200	0.2 mm ID (purple marker)
SC-0317-4200-010	0.2 mm ID (purple marker), 10 cm length for FAST DXi
SC-0317-4250	0.25 mm ID (green marker)
SC-0317-4250-010	0.25 mm ID (green marker), 10 cm length for FAST DXi
SC-0317-4500	0.5 mm ID (orange marker)
SC-0317-4500-010	0.5 mm ID (orange marker), 10 cm length for FAST DXi




**Peripump "carrier in" lines, connects to port #2 (1/4-28 fitting)**


Part Number	Description
SC-0316-0200	0.2 mm ID (purple marker)
SC-0316-0200-010	0.2 mm ID (purple marker), 10 cm length for FAST DXi
SC-0316-0250	0.25 mm ID (green marker)
SC-0316-0250-010	0.25 mm ID (green marker), 10 cm length for FAST DXi
SC-0316-0500	0.5 mm ID (orange marker)
SC-0316-0500-010	0.5 mm ID (orange marker), 10 cm length for FAST DXi




Elemental Scientific's SC-FAST loops are all Teflon® with crimp-free loops that provide low resistance for fast loading and rinse out.


## SC-FAST High-Flow Sample Loops

Part Number	Size	Description	0.8 mm I.D. x 1.6 mm O.D. Sample Loops (Teflon tubing and 1/4-28 fittings)
SC-0319-01	100 µL loop (0.8 mm ID)	Multipurpose FAST loops for high flow valves. Recommended for use with 0.8 mm ID (blue) probe.	 <p>SC-0319-10 1mL sample loop</p>
SC-0319-02	200 µL loop (0.8 mm ID)		
SC-0319-03	300 µL loop (0.8 mm ID)		
SC-0319-05	500 µL loop (0.8 mm ID)		
SC-0319-10	1 mL loop (0.8 mm ID)		
SC-0319-15	1.5 mL loop (0.8 mm ID)		
SC-0319-20	2 mL loop (0.8 mm ID)		
SC-0319-25	2.5 mL loop (0.8 mm ID)		
SC-0319-30	3 mL loop (0.8 mm ID)		
SC-0319-40	4 mL loop (0.8 mm ID)		

Part Number	Size	Description	1.0 mm I.D. x 1.6 mm O.D. Sample Loops (Teflon tubing and 1/4-28 fittings)
SC-0318-01	100 µL loop (1 mm ID)	Multipurpose FAST loops for high flow valves. Recommended for use with 1.0 mm ID (gray) probe.	 <p>SC-0318-25 2.5mL sample loop</p>
SC-0318-05	500 µL loop (1 mm ID)		
SC-0318-10	1 mL loop (1 mm ID)		
SC-0318-15	1.5 mL loop (1 mm ID)		
SC-0318-20	2 mL loop (1 mm ID)		
SC-0318-25	2.5 mL loop (1 mm ID)		
SC-0318-30	3 mL loop (1 mm ID)		
SC-0318-40	4 mL loop (1 mm ID)		

Part Number	Size	Description	1.6 mm I.D. x 3.2 mm O.D. Sample Loops (Teflon tubing and 1/4-28 fittings)
SC-0315-03	300 µL loop (1.6 mm ID)	High volume and flow, fast loading FAST loops for high flow valves with 1 mm rotor. Recommended for use with 1.0 mm ID (gray) probes and applications requiring larger sample volumes or high flow rates.	 <p>SC-0315-30 3mL sample loop</p>
SC-0315-05	500 µL loop (1.6 mm ID)		
SC-0315-10	1 mL loop (1.6 mm ID)		
SC-0315-20	2 mL loop (1.6 mm ID)		
SC-0315-30	3 mL loop (1.6 mm ID)		
SC-0315-40	4 mL loop (1.6 mm ID)		
SC-0315-60	6 mL loop (1.6 mm ID)		
SC-0315-80	8 mL loop (1.6 mm ID)		

## SC-FAST Low-Flow Sample Loops

Part Number	Size	Description	0.8 mm I.D. x 1.6 mm O.D. Sample Loops (Teflon tubing and M5/10-32 fittings)
SC-0312-01	100 µL loop (0.8 mm ID)	Low volume, low flow FAST loops for low flow valves. Recommended for use with 0.8 mm ID (blue) or smaller probe.	 <p>SC-0312-10 1mL sample loop</p>
SC-0312-02	200 µL loop (0.8 mm ID)		
SC-0312-03	300 µL loop (0.8 mm ID)		
SC-0312-05	500 µL loop (0.8 mm ID)		
SC-0312-10	1 mL loop (0.8 mm ID)		
SC-0312-20	2 mL loop (0.8 mm ID)		

# MICROTITER PLATES



All microtiter plates can be used on the SC-2, SC-4, SC-2 DX, SC-4 DX and the SC-Micro.



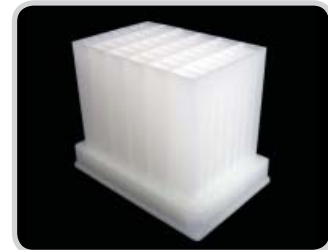
Part Number	Description
MT-24-10ML-02	24 well, 10 mL microtiter plate, square well, pyramid bottom. 5 Pk



Part Number	Description
MT-48-5ML-02	48 well, 5 mL microtiter plate, square well, pyramid bottom, 5 Pk



Part Number	Description
MT-48-7.5ML-02	48 well, 7.5 mL microtiter plate, square well, pyramid bottom, 3 Pk



Part Number	Description
MT-48-10ML-02	48 well, 10 mL microtiter plate, square well, pyramid bottom



Part Number	Description
MT-96-2ML-02	96 well, 2 mL microtiter plate, square well, pyramid bottom, 5 Pk



Part Number	Description
MT-96-4ML-02	96 well, 4 mL microtiter plate, square well, polypropylene

# MICROTITER PLATES



**XP Probe Arm for SC-2 DX / SC-4 DX**

Part Number	Suggested Use
SC-0105-DX-XP	Must be used in place of reset probe when X-Piercing cover is applied to microtiter plates.



**Cover for Microtiter Plates**

Part Number	Qty	Suggested Use
MT-00-02ML	5	Used to protect against environmental contamination



Part Number	Description
MT-96-500-05-V	96 well, 500 µL microtiter plate, polystyrene (Qty 5)
MT-96-500-05-C	96 well, 500 µL microtiter plate, polystyrene (Qty 100)

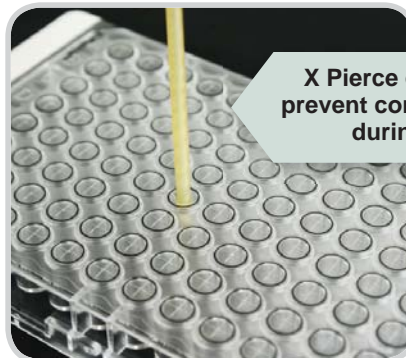


**X Piercing Cover for 96 Well Microtiter Plate**

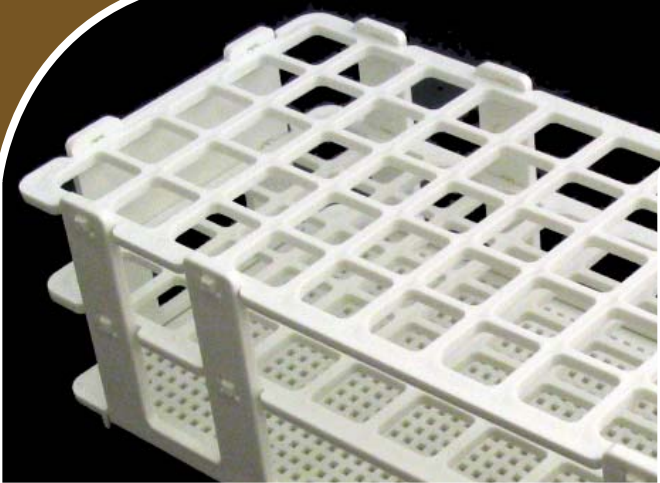
Part Number	Qty	Suggested Use
MT-96-XP	25	Minimizes evaporation of micro samples awaiting analysis and protects against environmental contamination.



Remove X Piercing cover from it's backing and place on the microtiter plate



X Pierce cover helps prevent contamination during sampling



## Metal Large Racks

Part #	Description
LRM-21-30-R	Metal Large Rack, 21 position, 30mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



Part #	Description
LRM-60-16-R	Metal Large Rack, 60 position, 16mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



Part #	Description
LRM-90-13-R	Metal Large Rack, 90 position, 13mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



Part #	Description
LRM-90-13-R-3T	3 Tier Metal Large Rack, 90 position, 13mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



## Large Racks

Part #	Description
LR-21-30	Large Rack 21 position 30 mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



Part #	Description
LR-40-20	Large Rack 40 position 20 mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



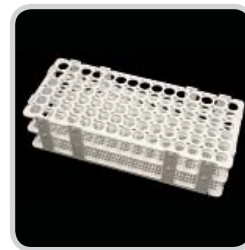
Part #	Description
LR-60-16	Large Rack 60 position 16 mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



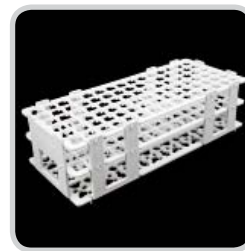
Part #	Description
LR-90-13-R	Large Rack 90 position 13 mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



Part #	Description
LR-90-13-GR	Large Grip Rack 90 position 10-13 mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



## Super Racks

Part #	Description
SR2-10-61	Super Rack 10 position 60 mm diameter

For the SC-2 only.



Part #	Description
SR2-12-40	Super Rack 12 position 40 mm diameter

For the SC-2 / SC-2 DX only.



Part #	Description
SR2-12-50	Super Rack 12 position 50 mm diameter

For the SC-2 / SC-2 DX only.



Part #	Description
SR2-21-22	Super Rack 21 position 22 mm diameter

For the SC-2 / SC-2 DX only.



Part #	Description
SR2-21-27	Super Rack 21 position 28 mm diameter

For the SC-2 / SC-2 DX only.



Part #	Description
SR2-21-30	Super Rack 21 position 30 mm diameter

For the SC-2 / SC-2 DX only.



Part #	Description
SR2-21-35	Super Rack 21 position 35 mm diameter

For the SC-2 / SC-2 DX only.



Part #	Description
SR2-27-22	Super Rack 27 position 22 mm diameter

For the SC-2 / SC-2 DX only.



Part #	Description
SR2-27-28	Super Rack 27 position 28 mm diameter

For the SC-2 / SC-2 DX only.



Part #	Description
SR2-27-31	Super Rack 27 position 31 mm diameter

For the SC-2 / SC-2 DX only.



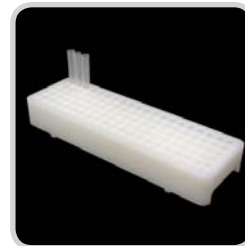
Part #	Description
SR2-80-16	Super Rack 80 position 16 mm diameter

For the SC-2 / SC-2 DX only.



Part #	Description
SR2-120-13	Super Rack 120 position 13 mm diameter

For the SC-2 only.



## Super Racks

Part #	Description
SR4-60-14	Super Rack 60 position 14 mm diameter

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX



Part #	Description
SR4-00-01	Rack cover for SC-4 autosampler

For the SR4-60-14 Super Rack



Part #	Description
SR14-21-72	Super Rack 21 position 72 mm diameter

For the SC-14 and SC-14 DX only.



Part #	Description
SR14-40-50	Super Rack 40 position 50 mm diameter

For the SC-14 and SC-14 DX only.



Part #	Description
SR14-40-61	Super Rack 40 position 61 mm diameter

For the SC-14 and SC-14 DX only.



## Heated Large Racks

Part #	Description
HR-21-30	Heated Rack 21 position 30 mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



Part #	Description
HR-40-20	Heated Rack 40 position 20 mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



Part #	Description
HR-60-16	Heated Rack 60 position 16 mm o.d.

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



Part #	Description
HR-1207	Heated Rack Enclosure

For the SC-2, SC-4, SC-8, SC-14, SC-2 DX, SC-4 DX, SC-8 DX, SC-14 DX



## Standards Racks

Part #	Description
ST5-28	Standards Rack 5 position 28 mm o.d.

For the SC-2, SC-4, SC-8, SC-14,  
SC-2 DX, SC-4 DX



Part #	Description
ST5-61	Standards Rack 5 position 61 mm o.d.

For the SC-8, SC-14 only



Part #	Description
ST-7-60	Standards Rack 7 position 60 mm o.d.

For the SC-4 DX only.



Part #	Description
ST9-34	Standards Rack 9 position 34 mm o.d.

For the SC-2, SC-4, SC-8, SC-14,  
SC-2 DX, SC-4 DX



Part #	Description
ST10-1	Standards Rack 10 position 28 mm o.d.

For the SC-2, SC-4, SC-8, SC-14,  
SC-2 DX, SC-4 DX



Part #	Description
ST10-28	Standards Rack 10 position 28 mm o.d.

For the SC-2, SC-4, SC-8, SC-14,  
SC-2 DX, SC-4 DX



Part #	Description
ST10-28-MR	Standards Rack 10 position 28 mm o.d.

For the SC- $\mu$  only



Part #	Description
ST10-28-CP	Standards Rack 10 position 28 mm o.d.

For the SC-2, SC-4, SC-8, SC-14,  
SC-2 DX, SC-4 DX



Part #	Description
ST10-31	Standards Rack 10 position 31 mm o.d.

For the SC-2, SC-4, SC-8, SC-14,  
SC-2 DX, SC-4 DX



Part #	Description
ST12-14	Standards Rack 12 position 14 mm o.d.

For the SC-2, SC-4, SC-8, SC-14,  
SC-2 DX, SC-4 DX



Part #	Description
ST12-16	Standards Rack 12 position 16 mm o.d.

For the SC-2, SC-4, SC-8, SC-14,  
SC-2 DX, SC-4 DX



## Micro Racks

Part #	Description
MR-21-14	Micro Rack 21 position 14 mm o.d.

For the SC-2, SC-4, SC-2 DX, SC-4 DX, SC- $\mu$



Part #	Description
MR-21-14-08	Micro Rack 21 position 14 mm o.d. PTFE

For the SC-2, SC-4, SC-2 DX, SC-4 DX, SC- $\mu$



Part #	Description
MR-21-15	Micro Rack 21 position 15 mm o.d.

For the SC-2, SC-4, SC-2 DX, SC-4 DX, SC- $\mu$



Part #	Description
MR-40-14	Micro Rack 40 position 14 mm o.d.

For the SC-2, SC-4, SC-2 DX, SC-4 DX, SC- $\mu$



Part #	Description
MR-40-14-08	Micro Rack 40 position 14 mm o.d. PTFE

For the SC-2, SC-4, SC-2 DX, SC-4 DX, SC- $\mu$



Part #	Description
MR-40-15	Micro Rack 40 position 15 mm o.d.

For the SC-2, SC-4, SC-2 DX, SC-4 DX, SC- $\mu$



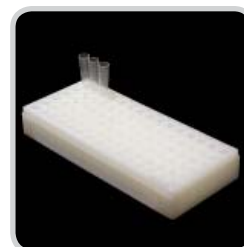
Part #	Description
MR-60-08	Micro Rack 60 position 8 mm o.d. Corzan

For the SC-2, SC-4, SC-2 DX, SC-4 DX, SC- $\mu$



Part #	Description
MR-90-08	Micro Rack 90 position 8 mm o.d. Corzan

For the SC-2, SC-4, SC-2 DX, SC-4 DX, SC- $\mu$



Part #	Description
MR-00-01	Cover for micro racks

For use with any of the above micro racks



## ASX100 & GeMeTec Racks

Part #	Description
MT-24G	Rack, Cetac/ GeMeTec position 14 mm o.d.



Part #	Description
MT-24G-AP	Adapter plate for GeMeTec/ Cetac ASX-100's







A large area of horizontal lines for writing notes, consisting of 30 evenly spaced lines.

