

There are several autosamplers commonly used in applications that require PFA nebulizers operating in free aspiration mode. Each autosampler has different probe dimensions (OD and length), so SavilleX C-Flow s-type (demountable uptake line) and desolvator (integrated uptake line) nebulizers are available with different probes. For full dimensions of probes for all C-Flow types, see the C-Flow web drawing available on each C-Flow product detail page at [www.savilleX.com](http://www.savilleX.com).

## Autosampler Arm and C-Flow Probe Compatibility Table

Company	Autosampler Model	Arm Hole Diameter (mm)	Notes
Agilent	I-AS (Agilent ICP-MS Autosampler)	2.8	The Agilent I-AS arm has a thumbscrew to tighten the probe in the arm.
CETAC	ASX110/112 Old Style Arm (up to Jan 2015)	3.5	This arm was sold up to Jan 2015 and has a thumbscrew to tighten the probe in the arm, so smaller probe OD sizes can be used. All C-Flows with a 3.2 mm OD carbon probe will fit. The smaller 2.9 mm carbon probe, and the polyimide probes (2.8 and 2.9 mm) will fit, if some PTFE tape is wrapped around the probe at the arm clamp to increase its OD.
CETAC	ASX110/112FR New Style Arm (from Feb 2015)	Two Holes 3.5 and 2.9	The new style CETAC arm eliminates the screw clamp type old arm the probe sits in a hole in the new arm, allowing it to lift if the tip hits a vial, so the probe is not damaged. To accommodate different probe sizes, this arm is reversible and has two different sized holes, so 2.8, 2.9 and 3.2 mm probes will all fit this arm.
ESI	SC-Micro	2.9	This arm has no thumbscrew, so probes must match the arm hole diameter. A 2.9 mm OD probe must be used. Probe length (including encapsulation) is 14.4 cm and they have longer uptake lines (90 or 100 cm) in order to reach the autosampler.
ESI	SC-2, SC-4, and Larger	2.9	This arm has no thumbscrew, so probes must match the arm hole diameter. A 2.9 mm OD probe must be used. Probe length (including encapsulation) is longer than SC-Micro at 19.7 cm and they have longer uptake lines (90 or 100 cm) in order to reach the autosampler.

## Probes Available with the C-Flow

C-Flow Model Name	Part Number	Use with Desolvator	Uptake Line Length (cm)	Demountable Uptake Line?	Probe OD (mm)	Probe Length with encapsulation (cm)	Probe Material	Notes
S-Type Nebulizer with Autosampler Probe (70 cm)	800-2-xxx-02-00	No	70	Yes	2.8	14.4	Polyimide	Fits Agilent I-AS, and will also fit ASX 110/112FR new style arm <b>AND</b> 110/112 old type arm if wrapped with PTFE tape
S-Type Nebulizer with Carbon Probe (100 cm)	800-2-xxx-04-00	No	100	Yes	2.9	14.4	Carbon	Fits ESI Micro autosamplers
Nebulizer for Desolvators	800-1-xxx-03-00	Yes	75	No	3.2	14.4	Carbon	Fits ASX 110/112 old style <b>AND</b> 110/112FR new style arm
S-Type Nebulizer with Carbon Probe for ESI SC-2 Autosampler (100 cm)	800-2-xxx-08-00	No	100	Yes	3.2	19.7	Carbon	Fits ESI SC-2 autosamplers (longer probe). Also fits SC-4 and larger, but uptake line may not be long enough for larger SC autosamplers.
Nebulizer for Desolvators with ESI SC Micro Autosampler (95cm)	800-1-xxx-07-00	Yes	95	No	2.9	14.4	Carbon	Fits ESI Micro autosamplers
Nebulizer for Desolvators with ESI SC-2 Autosampler (95cm)	800-1-xxx-05-00	Yes	95	No	2.9	19.7	Carbon	Fits ESI SC-2 autosamplers (longer probe). Also fits SC-4 and larger, but uptake line may not be long enough for larger SC autosamplers.

**Note:** The C-Flow for Desolvators are designed for use with all desolvators: CETAC, Aridus II, ESI APEX and Nu Instruments DSN. For full dimensions of probes for all C-Flow types, see the C-Flow web drawing available on each C-Flow product info page at [www.savillex.com](http://www.savillex.com).



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