

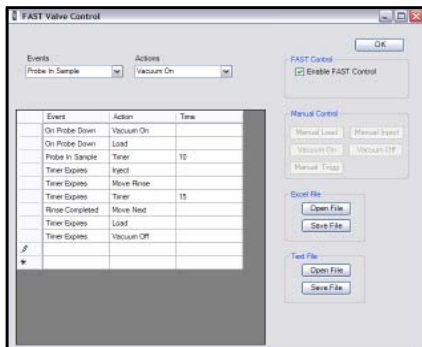
SC-FAST

Sample injection system for high throughput ICP and ICPMS

- Increase ICP productivity to over 75%
- Minimizes sample uptake and wash-out time
- Reduces stabilization time
- Throughput increased up to 2—3 fold
- Operates without alteration to analytical measurement time
- Add Hg to ICPMS methods
- Reduces salt loading of ICPMS cones
- More effective rinsing between samples
- Eliminates sample contact with peristaltic pump tubing
- Full integration between SC-autosampler and SC-FAST system
- Compatible with most ICP / ICP-MS systems



The FAST system integrated to the SC-2 autosampler includes control of an inert injection valve for sample injection or chromatography applications.



Easy to use software interface operates through the SC-Autosampler



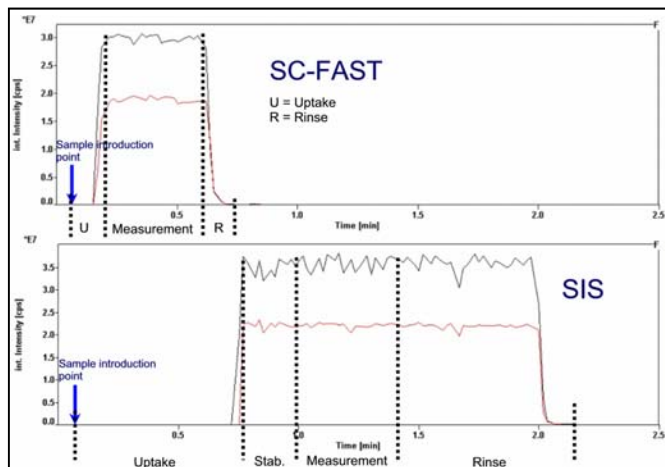
Tethered Injection valve is available in two materials:

- Fluoropolymer
 - Ultimate low backgrounds
 - Ideal for semi conductor samples
- PEEK
 - Wider through holes
 - Longer lifetime for environmental samples

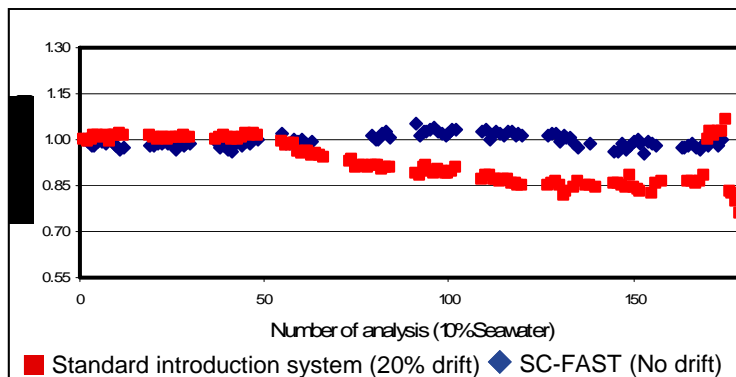
The SC-FAST integrates fully with the SC-autosampler to ensure the fastest sample turnaround possible.

The 6-way valve system virtually eliminates sample uptake and wash times with no other alteration to the analytical method. By removing these portions of the analysis, sample turnaround can be increased 2—3 fold.

Other benefits include a dramatic reduction in salt loading to ICP-MS cones and the ability to include memory prone elements such as Hg into analytical methods.



Sample from SC-FAST introduced, analyzed and washed out before standard introduction system (SIS) has introduced the sample



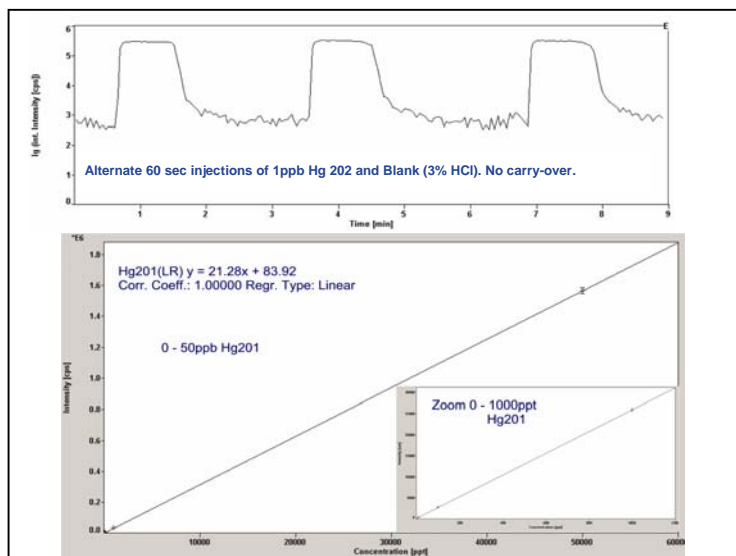
Y signal drift in 10% Seawater samples

SIS 1 min load time; 2 min analysis time; 1 min rinse
 SC-FAST 10 sec load time; 2 min analysis time; 0 sec rinse

More effective rinsing with SC-FAST, 30% less matrix reaches the ICP-MS cones

Reduces Costs by

- Reducing instrument idle time
- Reducing argon consumption per sample
- Reducing cone maintenance
- Increasing the number of samples analyzed in available time
- Reducing reagent consumption



Rapid wash-in / wash-out of memory prone elements, with excellent reproducibility and linearity.