

Optimizing Your Use of eVol® Digital Analytical Syringe

ABSTRACT

View this video to further extend your eVol®'s capabilities by using innovative features not found in any other hand-held positive displacement device on the market. Learn how to calibrate, write protect, use a common sample preparation process and directly inject into your required instrument through septa using your eVol®.



eVol® allows you to:

- Speed up and simplify laboratory workflow
- Improve accuracy and reproducibility
- Standardize results independent of operator skill.

VIDEO SUMMARY

Compliance – Meeting Laboratory Standards with eVol®

eVol® uses advanced technology to ensure the volume of liquid dispensed is both precise and accurate. To achieve the highest level of accuracy possible, each eVol syringe may be calibrated. View the video for calibration procedure.

Write Protection

With eVol® digital analytical syringe, settings can be write protected to provide limited access to secondary users. Once a password has been set it must be entered in order to gain access to the Write Protect screen, preventing users from changing methods once they have been set. Once set, a password will need to be entered every time the Write Protect menu is accessed.

Traceability

For increased traceability for the user, a unique ID can be set for each syringe to allow users to allocate different syringes with similar capacity for different liquids, for example different solvents. You can use the unique ID inscribed on each syringe or you can name syringes as you wish.

Sample Preparation with eVol®

eVol® can improve and simplify your workflow - in this example we demonstrate a very common sample preparation process - solid phase extraction, commonly called SPE.

The eVol® custom programming function enables MEPS™ (micro SPE) to be semi-automated and proofed before transition to fully automated platforms if required.

eVol® introduces reliability and efficiency in sample preparation; it is simple to program and removes inter-operator error.

Direct Injection with eVol®

eVol®'s stainless steel needles allow direct injection into the required instrument through septa. Dependent on the injection requirements, the injection speed can be increased or decreased as necessary.

For a faster injection speed, increase the size of the syringe to decrease the size of the stroke. eVol® controls the speed and force, maintaining the accuracy of results, regardless of the user.

Titration

Titration, too, are an easy process using eVol®. eVol® can be set to release liquid drops at very slow speeds for hours a time – a difficult task to complete manually. Drops can be stopped and the remaining volume in the syringe calculated automatically – great for aspirating and dispensing unknown quantities of liquid.

Now you are ready to take your eVol use to the next level – all the while maintaining accuracy and reproducibility of results, and adhering to strict global laboratory standards.

For more information contact our technical customer support team on: techsupport@sge.com

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