vereo®

AUTOMATED ACTUATORS FOR PMDI DEVICES

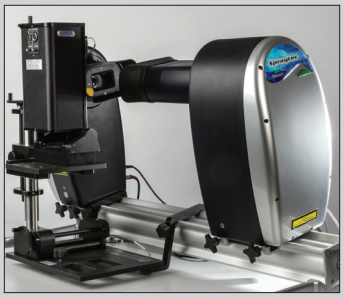
Vereo® Actuator SFMDx

Unrivaled Accuracy in Automated Actuation

Vereo® Automated Actuators are designed to replicate patient actuation of devices through automated actuation. Accurate control of shaking and actuation allows pMDI devices to be actuated precisely and consistently. The Vereo® product family covers a full range of pMDIs.

Versatile tool for the following areas:

- Drug Design and Development
- Product Specifications
- Characterization Studies
- Stability Studies
- Bioequivalance
- Quality Control



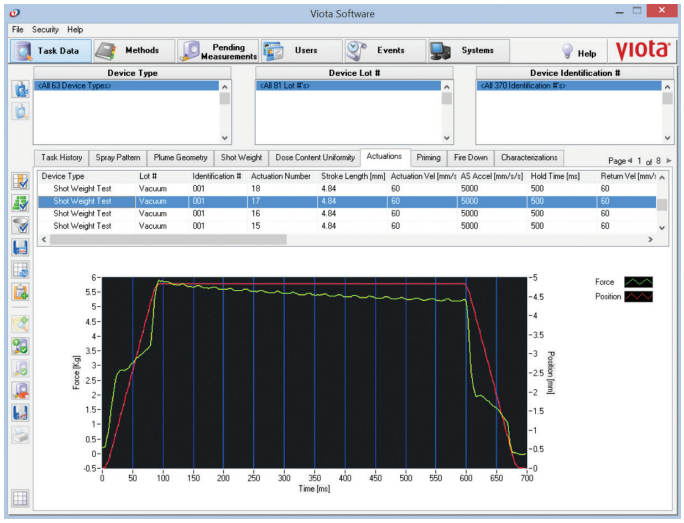
Vereo® actuators provide robust, automated actuation; the preferred method for completing regulatory required *in vitro* tests. The Vereo® actuator can be integrated with pMDI instruments and accessories to complete the following:

- Spray pattern
- Plume geometry
- Valve delivery
- Particle size distribution (PSD) by Cascade Impactor
- Droplet size distribution (DSD) by Laser Diffraction
- Dose content uniformity (DCU), through life
- Priming/Re-priming

proveris SCIENTIFIC

Vereo® Actuator with Viota® Software Features

- Automated actuation with positional accuracy, precision, and repeatability; compliant with U.S. FDA guidelines
- Consistent, rapid shake-to-fire interval for superior pMDI spray characterization
- Powerful, yet simple to use user interface with real time force-position feedback measured and displayed as actuation profiles
- User selectable shaking angle, frequency, duration, and shake to actuate delay; stroke length, contact and end of stroke limits, actuation velocity/acceleration, hold time, and release velocity/acceleration
- Technical controls to enable compliance with U.S. 21 CFR Part 11



Force-position actuation data collected by Vereo® actuator displayed in Viota® Software

SnapLock® Device Holders enable easy pMDI insertion and removal

Device Holders provide versatility for comprehensive product compatibility

Proveris offers a suite of predefined device holders for pMDI products currently on the market. Design-to-order device holders are available upon request.

Available Vereo® Actuator Models for pMDI devices

Product No.	Model Name	Intended Usage/Application
001350	SFMDx	– Pressurized metered dose inhalers

Proveris Scientific Corporation
Two Cabot Road, Hudson, MA 01749 USA
+1 (508) 460-8822 • +1 (508) 460-8942 FAX • sales@proveris.com

Indizo®, Proveris®, Proveris Scientific®, Proveris Scientific and Design®, SnapLock®, Solo®, SprayVIEW®, Vereo® and Viota® are registered trademarks of Proveris Scientific Corporation. Ergo™ , Kinaero™, KinaeroMATE™, and Proveris by Design™ are trademarks of Proveris Scientific Corporation. Refer to the "Proveris Trademarks" section at http://www.proveris.com/about-us/intellectual-property/ for other Proveris Scientific Corporation trademarks. Other product and company names mentioned herein are trademarks or trade names of their respective companies.