vereo®

AUTOMATED ACTUATORS FOR PMDI DEVICES

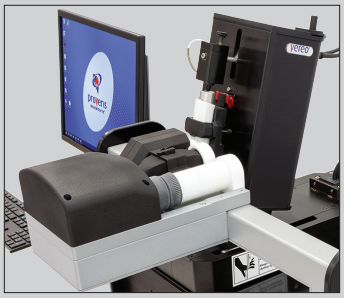
Vereo Actuator SFMDx

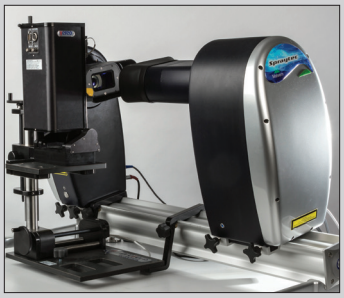
Unrivaled Accuracy in Automated Actuation

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
- Plume front velocity
- Spray duration
- 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

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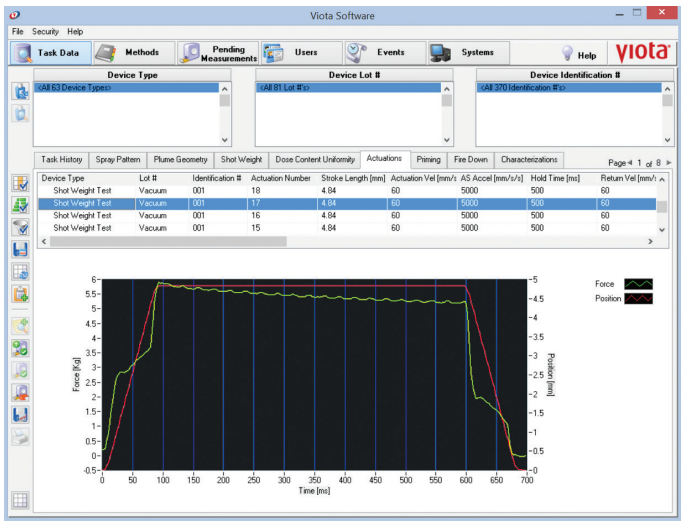
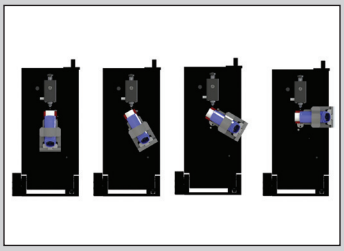
Vereo Actuator with Viota® Software Features

- Automated actuation with positional accuracy, precision, and repeatability; compliant with U.S. FDA, EMA/EDQM, and other regulatory guidelines
- Consistent, rapid shake-to-fire interval for superior pMDI spray characterization
- Powerful, yet simple user interface with real time force limit and 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



Programmable shaking angles range from 5 – 90 degrees

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
1350	SFMDx	– Pressurized metered dose inhalers

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