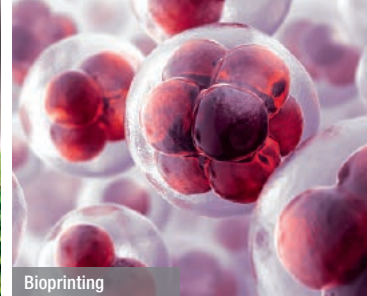
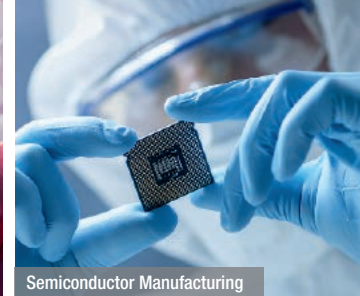




Drug Discovery



Bioprinting



Semiconductor Manufacturing

# SPOTLIGHT ON INNOVATION



## VHS SERIES MINIATURE HIGH-SPEED DISPENSING VALVE

The persistent trend towards developing smaller systems using lower volume chemistry is driving companies to invent entirely new dispensing techniques. With the latest dispensing applications requiring precise droplet volumes at high dispense frequencies, modern dispensing systems must provide repeatable jetted spherical micro-droplets to develop a perfect process.

The Lee Company's VHS Series solenoid valve offers state-of-the-art dispensing performance in a miniature package.

This valve combines the best of printing technology with inert materials to bring droplet-on-demand performance to the life science industry. With a response time as fast as 250  $\mu$ s, droplets as small as 10 nanoliters can be generated at a frequency as high as 1 kHz. This high-speed operation also enables the VHS Series to accurately meter and regulate fluid flow. Offered with integrated precision orifices or with MINSTAC® threads to include a dispense nozzle, this valve can be easily integrated into both new and existing dispensing systems.

These features make the VHS Series ideal for applications where reagents are being dispensed into titer plates, live cells, and multiplexing arrays, as well as a multitude of unique high-technology industrial dispensing applications using water, alcohol, and oils.

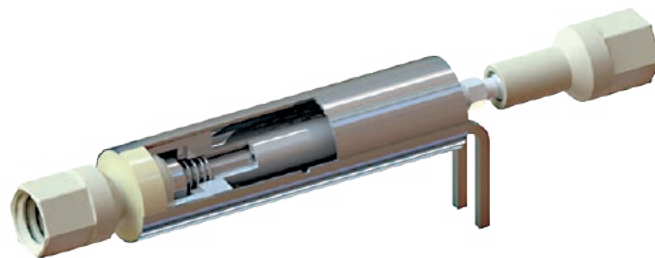
The VHS Series valve is 100% functionally tested for performance and designed with materials that will ensure consistent, long-term operation. Available in different mounting styles and material options, performance characteristics can be further optimized to meet specific application requirements.

### PERFORMANCE

- High Speed: Response Time as Fast as 250  $\mu$ s
- Small Size: Less Than 6 mm Diameter
- Low Internal Volume
- Spherical Droplet Dispensing
- 250 Million Cycle Life

### APPLICATIONS

- Drug Discovery
- Molecular Diagnostics
- Bioprinting
- Semiconductor Manufacturing
- Industrial Dispensing



**THE NEXT EVOLUTION IN PRECISION DISPENSING  
WITH NANOLITER VOLUMES AND ULTRA-FAST RESPONSE.**

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