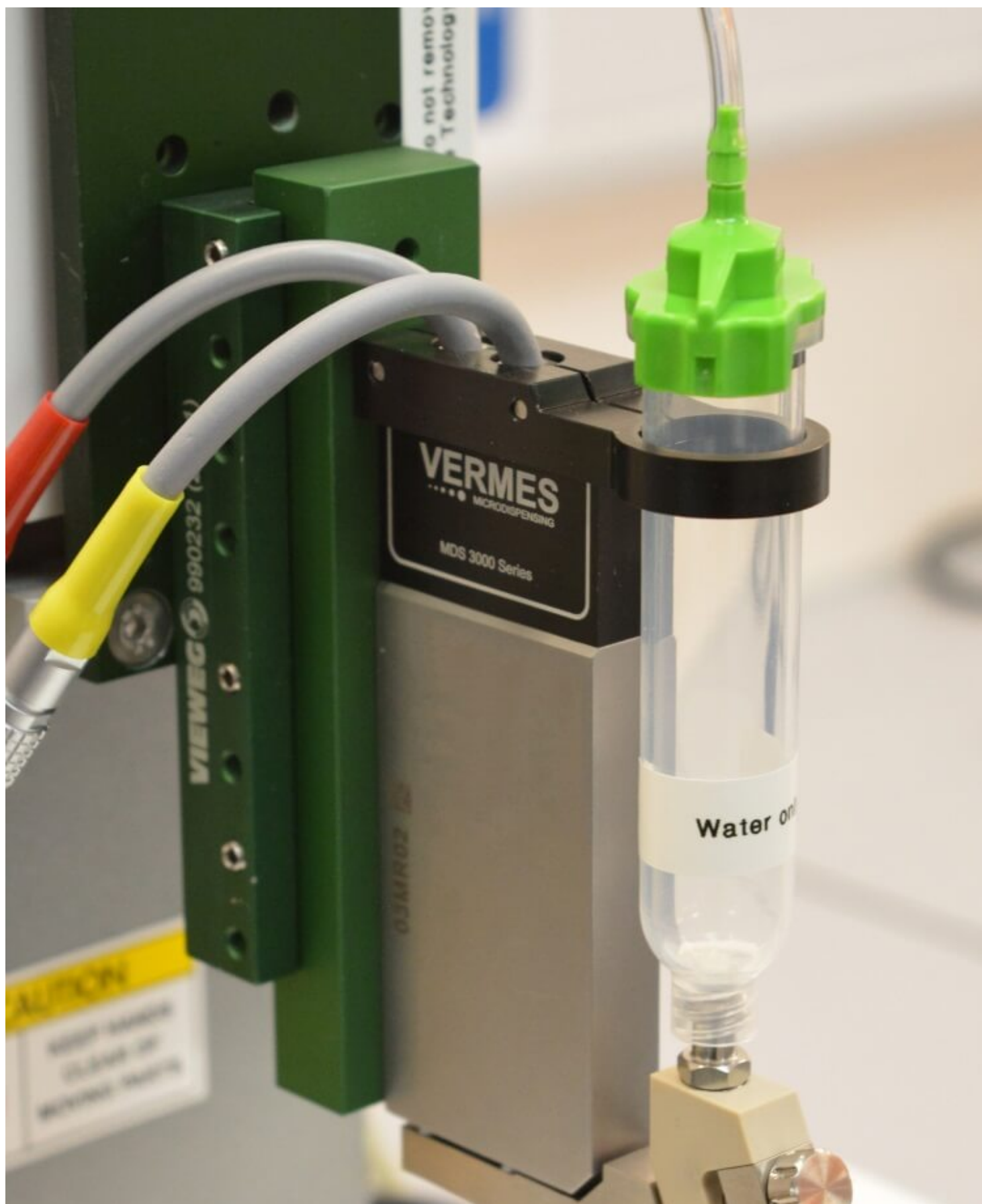


Precision liquid dispensing – ultra-fast, super accurate jetting valve

The [**Vermes MDS 3010[±]**](#) and [**Vermes MDS 3020[±]**](#) [**Microdispensing Jetting Valves**](#) are designed for precision dispensing of material in small volumes at fast speeds with extremely high accuracy and repeatability. The piezo-actuated valves satisfy the trend for increasing miniaturisation of components in production processes – demanding ever-smaller deposits of beads and lines – as well as the requirement to dispense on 3D shapes, inside assemblies and other irregular applications.

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The **Vermes MDS 3010⁺** is suitable for jetting liquids up to 300 mPas viscosity, such as aqueous fluids, UV adhesives, cyanoacrylates, anaerobic glues and a host of other media. The **Vermes MDS 3020⁺** is designed for fluids up to 8,000 mPas including medium viscosity adhesives, organic solvents, lacquers, solder fluxes, oils and greases. Both models feature repeatable dot or bead dispensing in volumes as low as 5 nl per pulse, with a minimum droplet diameter of 300 µm, depending on the medium, and a maximum frequency greater than 3,000Hz.

The Vermes systems are likely to find applications in a wide range of sectors including microelectronics, micromechanics, life sciences, medical diagnostics and pharmaceutical laboratories. This ultra-fast, super accurate and fully repeatable dispensing enables companies to save time, reduce waste and dispense materials in locations not possible with other methods – such as inside components, following 3D shapes. They can even deposit variable width lines, dots and complex patterns upside down.

The jetting valves are available to be evaluated in our [Technology Centre](#) – give us a call to arrange a visit.

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