



## **Liquid handling technology with Dispensing head VTOE**

The latest automated subsystem dispenser from Festo in achieving precise dosing and pressure control during the process of dispensing and aspiration of liquids to microplates by using pressure driven liquid technology.

This demo kit comprises of 3 submodules:

### Vacuum and pressure generator

Compact vacuum/pressure generator driven by two individual diaphragm pumps. Compressed air is stored in air reservoir CRVZS and monitor by pressure switches SPAN.

### Vacuum and pressure regulator

Thanks to Piezo technology, proportional pressure regulator VEAB regulates pressure and vacuum precisely inside the bottles and provide excellent stability compressed air to push liquid out of bottles to dispense head.

### Dispensing and aspirating module

Dispensing head VTOE dispenses liquid into microplate and VTOI aspirates liquid from microplate's well to bottles. Both dispense heads are actuated by mini slides EGSC for Z axis movement and gantry EXCM moves microplate in XY direction.