

Multifunctional in the smallest of spaces

The pressure and vacuum generator PGVA integrates many functions in a compact housing

The decentralised pressure and vacuum generator PGVA from Festo is a compact complete solution for laboratory automation. It integrates compressor, air preparation including filter system, reservoir and electronic pressure and vacuum control in the smallest of spaces.

Whether your laboratory processes involve pipetting medical samples or dosing with a dispense head, the pressure and vacuum generator PGVA from Festo is a standalone solution for liquid handling in laboratory automation. All you need to supply a solution with compressed air or vacuum is a 24 V power supply.

Practical interfaces

Both pressure and vacuum are generated in a closed control loop using integrated compressor, buffer reservoirs, pressure sensors and proportional valve. Users can individually specify the pressure and vacuum level via a serial RS232 or network-capable Ethernet communication interface. The defined electric, pneumatic and software-based interfaces make it easy to integrate the PGVA into an existing liquid handling solution or operate it manually with the PC-based graphical user interface (GUI). The required volume for dispensing or aspirating is determined by the valve opening time and the pressure and vacuum values set in the software.

Press Images



PGVA pressure and vacuum generator

Decentralised: the pressure and vacuum generator PGVA supplies your pressure or vacuum solution with compressed air.

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PGVA pressure and vacuum generator, interior view

Integrated: compressor, filter system, reservoirs and electronic pressure/vacuum control with proportional regulator.



Screenshot GUI of pressure and vacuum generator PGVA

Simple: with a PC and the GUI software, the necessary parameters can be transferred via the COM or Ethernet port.

About Festo

Festo is a global player and an independent family-owned company with headquarters in Esslingen am Neckar, Germany. Festo has set standards in industrial automation technology and technical education ever since its establishment, thereby making a contribution to sustainable development of the environment, the economy and society. The company supplies pneumatic and electrical automation technology to 300,000 customers of factory and process automation in over 35 industries. Digitalization, AI and the LifeTech sector with medical technology and laboratory automation are becoming increasingly important. The products and services are available in 176 countries. With about 20,600 employees in over 250 branch offices in around 60 countries worldwide, Festo achieved a turnover of around €3.45 billion in 2024. More than 8% of this turnover is invested in research and development. In this learning company, 1.5 % of turnover is invested in basic and further training. Festo Didactic SE is a leading provider of technical education and training and offers its customers worldwide comprehensive digital and physical learning solutions in the industrial environment.