Pressure and vacuum generator PGVA

Highlight of the PGVA:

- **Integrated compressor**
- **Proportional pressure/vacuum control**
- **Power supply:** 24 V
- **Flexible in use**
- **Easy to integrate**
- **Easy to operate and configure**
- **Dynamic and precise**

Compact!

The PGVA provides you with a complete solution that makes your life easy: the pressure and vacuum generator PGVA integrates the compressor, the air preparation including filtering, the buffer reservoirs and the electronic pressure/vacuum controller. The digital interface makes it incredibly easy for you to adjust the required pressure/vacuum level.

Easy to integrate into your application

Festo plug and play: the PGVA couldn’t be easier to integrate into your liquid handling solutions thanks to the defined electric, pneumatic and software interfaces.

Highly versatile

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Complete solution

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**System architecture**

**Pressure/vacuum generation**
The pressure and vacuum are generated in a closed control loop with integrated compressor, buffer reservoir, pressure sensors and proportional valve. The digital communication interface lets you preset the pressure level from the controller.

**Pressure-assisted handling of liquids**
You set the required volume for dispensing or aspirating via the valve opening time, as well as the pressure/vacuum level at the output of the pressure/vacuum generator PGVA.

**Technical design**

**Housing**
Compressor, buffer reservoir, switching valves, pressure sensors, proportional valve and internal controller with digital interface are integrated into a compact housing.

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**Flow rates as a function of set pressure and vacuum ranges**

**Technical data**

- Variable pressure/vacuum range −500 mbar ... +500 mbar
- Absolute accuracy 1% (FS)
- Air filtering down to 0.01 μm
- Pneumatic connection 4 mm (QS-4)
- Power supply 24 V
- Digital output for integrated individual valve actuation
- RJ45 Ethernet port for Modbus TCP
- RS232 serial port for ASCII
- Configuration tool (GUI) available

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