

G-VAC PS

Pneumatic-Free Vacuum Gripper

For pneumatic-free gripping
or securing of solid and smooth
workpieces.



**For automation specialists who are reimagining
performance, efficiency, and sustainability.**



Reliable vacuum gripping and securing of workpieces made of solid, smooth, and non-porous materials such as metal, glass, or plastic—without the use of a compressed air system.

Benefits

- **Reduced system complexity**
No compressed air network, no valves, no hoses
- **Up to 90% lower energy consumption**
Energy used only during suction, no consumption while holding
- **Maintenance-free and maximum operational reliability**
Robust design with few, functional components
- **Quiet operation without air turbulence**
No blowing, no noise – ideal for human-machine environments
- **More freedom in tight installation situations**
Compact design and low weight

Technical Data

Electrical connection	M8 connector, 4-pin
Protection class	IP54
Voltage	24 V - DC
Rated current / Switching current	30 mA / 150 mA
Payload	5 kg
Operating temperature	0...40 °C
Weight (without suction cup)	100 g
Dimensions (ØxH)	70 mm x 38.5 mm

The Technology

The electric vacuum gripper was developed based on 15 years of research into nickel-titanium alloys. Our shape-memory actuators consist of micrometer-thin wires capable of moving loads up to 10,000 times their own weight.

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System Features

Passive suction: no active vacuum generation

Two power-free switching states

Fail-safe principle: no release in the event of a power failure

Integrated acceleration and vacuum sensors

Status and diagnostic signals to the PLC

Visual operation/fault indicator

Virtually silent operation

Use of standard vacuum cups

Available with robot flange (e.g., Universal Robots)

Compatible with all common fieldbus systems



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