

## SINGLE-STAGE AND MULTI-FUNCTION VACUUM GENERATORS SERIES AVG

*These generators are independent vacuum units that can control an entire vacuum gripping system. They have been specially designed for the AUTOMOTIVE sector and they are equipped with single ejectors that, given the same capacity as the multi-ejector generators, allow a quicker grip and, as a result, a greater compressed air consumption. As a standard, they are provided with a built-in pneumatic energy-saving device.*

*They are composed of an anodised aluminium monobloc structure, inside of which are installed the ejectors, the servo-controlled slide valve for the compressed air supply and are contained the vacuum chambers as well as the various connections.*

*On the outside, on the other hand, are installed:*

- *A bistable impulse solenoid valve for controlling the slide valve.*
- *A micro solenoid valve for blowing the exhaust compressed air.*
- *A flow regulator for dosing the exhaust compressed air.*
- *Two silencers for removing noise from the ejected air.*
- *An aluminium manifold provided with vacuum connections with built-in:*
  - ° *A pneumatic vacuum switch for managing the compressed air supply according to the set vacuum level (energy saving).*
  - ° *A check valve for maintaining the vacuum in case of electricity or compressed air failure.*
  - ° *A suction filtre, easy to inspect through the transparent polycarbonate lid.*

*By providing an electric impulse to the two-position micro solenoid valve, the compressed air supply slide valve will be activated and vacuum will be created at the application.*

*Once the preset maximum value has been reached, the pneumatic vacuum switch, acts on the slide valve and interrupts the compressed air supply, restoring it when the value returns below the minimum value.*

*Along with maintaining the vacuum level within the preset safety values, this modulation allows saving a considerable amount of compressed air, even in case of electricity failure. Once the work cycle is completed, an electric impulse deactivates the supply micro solenoid valve and, at the same time, the ejection micro solenoid valve for a quick restoration of the atmospheric pressure at the application.*

*AVG vacuum generators are set for the installation of a micro digital vacuum switch art. 12 05 11 at the application and, upon request, they can be supplied protection devices against shocks and accidental falls.*

*Also these vacuum generators can be installed in any position.*

*AVG vacuum generators are suited for controlling vacuum cup gripping systems, for handling sheet metal, glass, marble, ceramic, plastic, cardboard, wood, etc., and, in particular for the AUTOMOTIVE sector, which requires equipment with excellent performance and reduced overall dimensions and weight.*

