



## 3-WAY VACUUM SOLENOID VALVES, PILOT-OPERATED FOR LARGE CAPACITIES WITH LOW ABSORPTION ELECTRIC COIL

The growing demand by automatic machine manufacturers in the packaging sector and the lack of high-speed three-way vacuum solenoid valves on the market for capacities above 200 m³/h have led us to design and implement this new series of solenoid valves that are able to meet these needs.

Strengthened by our constant desire for research and innovation and our experience, acquired over more than forty years of operations in the vacuum sector, we have made these new solenoid valves using absolutely innovative technologies, to guarantee exceptionally low intervention times, almost negligible pressure drops, and minimal dimensions compared to the large connections and minimum electrical absorption for their powering with which they are equipped.

Furthermore, we have obtained them from aluminium block to eliminate even the slightest chance of loss due to transpiration, as perhaps could occur with a fusion.

This new series of solenoid valves for vacuums are three-way, two-position and are composed of:

- An anodised aluminium body set with attachment connections
  - Two conical Vulkollan® shutters fitted on the aluminium pistons, pneumatically powered with spring return
  - A solenoid pilot valve powered by a low absorption fitted electrical coil which managed compressed air supply
- The composition of these valves, especially the original Teflon® slide system that the pistons have been equipped with, help minimise friction and internal dynamic stress, deriving high response speed and ensuring enduring operation.

They can be used normally either closed or open.

The electric coils of the solenoid pilot valve are fully plastic-coated in synthetic resin, watertight, insulation class F (up to 155°C) as per standard VDE, with 3 mm two-terminal electrical connections for connectors in compliance with EN 175301-803. Degree of protection IP 54;

IP 65 with connector inserted.

Available for voltages 12-24V/50-60Hz and 12-24VDC.

Tolerance permitted on the nominal voltage value:  $\pm 10\%$ .

Maximum electric power: 2 W

The connector can be rotated 180° on the coil and can be supplied, upon request, with LED lights, anti-interference circuit and/or with protection devices against overvoltage and polarity reversal.

A push-button device, built-in the solenoid pilot valve, allows manually opening and closing the solenoid valve.

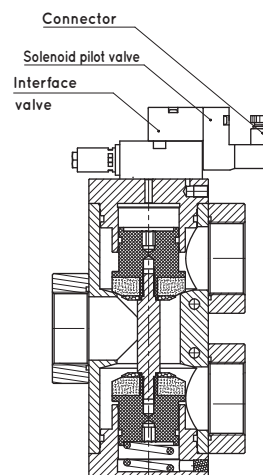
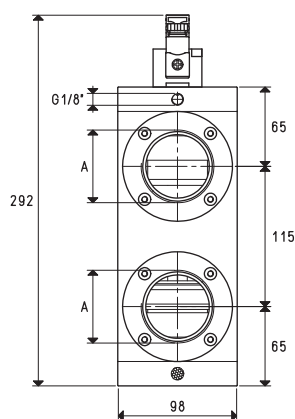
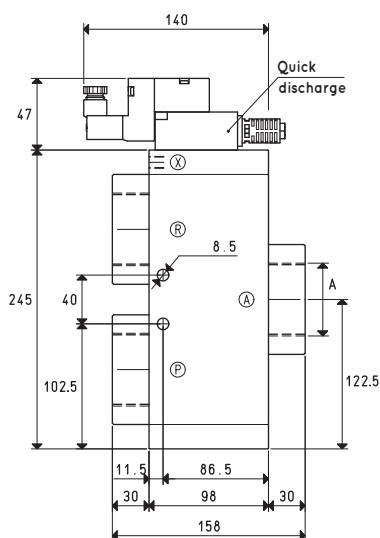
The three-way solenoid valves are used for vacuum interception on power supply units and suction palletisers, vacuum thermoformers, vacuum packaging units, robots, feeders, bag opening units and in all those cases where rapid exchange between pump suction for vacuums and air supply into the circuit is necessary for quick restoration of atmospheric pressure.

### Technical features

Working pressure: from 0.5 to 1000 absolute mbar

Servo-control pressure: from 4 to 8 bar

Suctioned fluid temperature: from - 5 to + 60°C

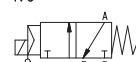


NC



X = Compressed air supply  
P = Pump  
A = Use  
R = Discharge

NO



X = Compressed air supply  
P = Discharge  
A = Use  
R = Pump

Item	A	Max flow rate	Level of vacuum	Reaction time	Mouth	Cross-section of passage	Pressure at servo-controlled	Weight
	Ø	m³/h	abs. mbar min max	msec energ. de-energ.	Ø	mm²	bar	Kg
07 08 13	G2"	390	1000 0.5	78 50	52	2123	4 ÷ 8	5.87

Note: Specify the voltage of the electric coil when ordering. (Example: 07 08 13 V24-CC)

The connector is not integral parts of the solenoid valve and, therefore, must be ordered separately (See accessories for solenoid valves).

Solenoid valve servo-controlled power must be supplied with non-lubricated compressed air, 5 micron filtration, according to standard ISO 8573-1 class 4.

Transformation ratio: N (newton) = Kg x 9.81 (force of gravity)

inch =  $\frac{\text{mm}}{25.4}$ ; pounds =  $\frac{\text{g}}{453.6} = \frac{\text{Kg}}{0.4536}$

Adapters for GAS - NPT threading available on page 1.130