

# SMALL VACUUM REGULATORS

## VR100

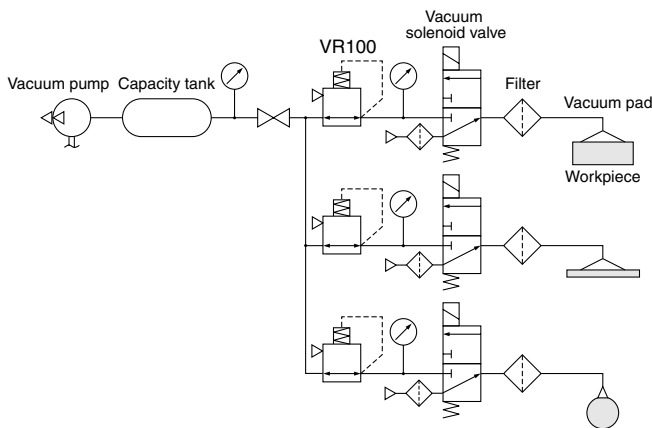


- Offer any vacuum pressure setting when mounted on vacuum lines.
- Push lock type regulator knob for light, smooth pressure regulation.
- Panel mounting is also a simple process, by opening holes in the panel.
- Suction flow rate VR100: MAX.45 ℓ /min [1.59ft<sup>3</sup>/min.] (ANR)<sup>Note1</sup>
- Lightweight (110g [3.88oz.]), compact (28×28×78mm [1.102×1.102×3.071in.])<sup>Note2</sup>

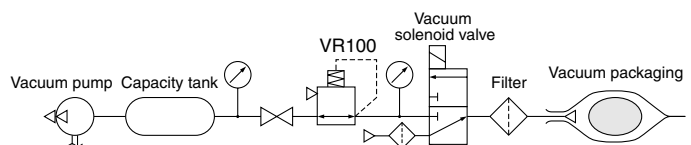
Notes: 1. Values may change depending on operating conditions.  
2. Excluding options.

## Application Example

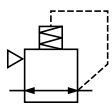
① Multiple vacuum pressured devices required



② Vacuum adjustment used for a vacuum packaging



## Symbol



## Operation Principle

When the knob is pulled firmly out, rotating the knob to the right applies compression force to the pressure regulating spring, acting through a diaphragm to lift up the pressure regulating valve assembly, which then passes through the VAC (vacuum pump side) and SET (pressure regulating side) to reduce pressure on the regulating side. The vacuum pressure on the pressure regulating side passes through a bypass hole to enter a chamber on the lower part of the diaphragm, activating the diaphragm. Here, it resists the compression force of the pressure regulating spring, with the VAC side and SET side closed by the valve assembly to obtain a balance that regulates the required vacuum pressure level. If vacuum pressure on the pressure regulating side falls below the setting value, air flows into the pressure regulating side from the atmosphere, maintaining the proper level.

