# Quick-Fitting Type Ejector Vacuum Generator VG

## Features

- ■These Vacuum Generator models serve your purpose most effciently in various combinations of units such as vacuum switch and vacuum release valve.
- The electronic vacuum switch is highly accurate.

#### Specification

| Fluid admitted            | Air          |             |  |  |
|---------------------------|--------------|-------------|--|--|
| Service pressure range    | 35.6~99.6psi | 0.25~0.7MPa |  |  |
| Service temperature range | 32~140°F     | 0~50°C      |  |  |
| Lubrication               | Not reguired |             |  |  |

# Air supply valve specificatin

| Control method                 | Pilot-operated poppet type  |
|--------------------------------|-----------------------------|
| Power supply                   | DC24V(Custom-made12, 6, 5V) |
| Power consumption              | 1.7W                        |
| Effective cross sectional area | 0.00775in.² (5mm²)          |
| Manual operation               | Push type (Non-lock)        |

#### Filter specificatin

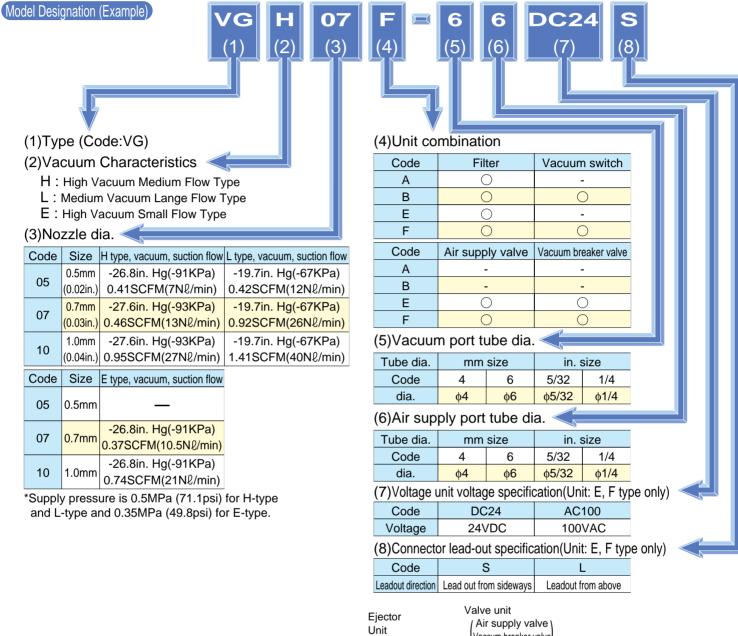
|                       | Element | Polyvinyl formal           |  |  |
|-----------------------|---------|----------------------------|--|--|
| Material              | Cover   | Polycarbonate (clear)      |  |  |
|                       | Body    | PBT Containing glass fiber |  |  |
| Filtering accuracy    |         | 10μm                       |  |  |
| Element ordering code |         | VGFE 10                    |  |  |

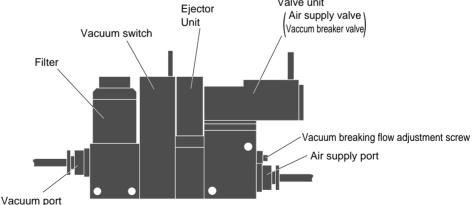
#### Vacuum switch specification

| Pressure sensing method      |  | Diffusion-type semiconductor pressure switch |                           |  |  |
|------------------------------|--|--|---------------------------|--|--|
| Pressure setting range       |  | 0~-29.9in. Hg(0~-100KPa)                     |                           |  |  |
| Setting mode                 |  | Continuous by trimmer                        |                           |  |  |
| Power supply                 |  | DC12~24V                                     |                           |  |  |
|                              | Mode   | Open collector output max.30V 80mA           |                           |  |  |
| Switch output                | Operation  | ON when vacuum is above set-point            |                           |  |  |
|                              | Indication   | Red LED lights up during ON                  |                           |  |  |
| Accuracy                     |  | ±3%F. S.                                     |                           |  |  |
| Differential                 | ferential 0.15psi(1KPa) or below (When -15.7in. Hg(-53 |  | /hen -15.7in. Hg(-53KPa)) |  |  |
| Response                     |  | 0.01sec                                      |                           |  |  |
| Analog output                |  | Standard atomospheric pressure               | 1VDC                      |  |  |
|                              |  | -29.9in. Hg(-1.0MPa)                         | 5VDC                      |  |  |
| Pressure setting at shipment |  | VGH, VGE -15.7in. Hg(-53KPa)                 |                           |  |  |
|                              |  | VGL -11.8in. Hg(-40KPa)                      |                           |  |  |

#### Vacuum breaker valve specification

| Control method                 | Direct operation poppet type |
|--------------------------------|------------------------------|
| Power supply                   | DC24V(Custom-made12,6,5V)    |
| Power consumption              | 1.7W                         |
| Effective cross-sectional area | 0.00031in.² (0.2mm²)         |
| Manual operation               | Push type (Non-lock)         |





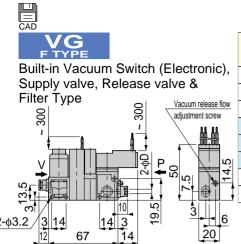
### Detailed safety instruction

Before using the PISCO device, be sure to read the "Safety Instructions", "Common Sefety Instructions for Products Listed in This Manual" on pages 23~24 and "Common Safety Instructions for Vacuum Generator VG and VK Type" on page 405.

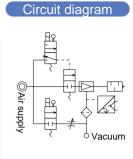
#### Caution

1. Exercise caution when the piping resistance is high or when the Vacuum release flow required is large. Inadequate Vacuum release flow can cause troubles. Confirm the specifications before use.

# Vacuum Series Vacuum Generator VG Type



|   |  |           |      |        |          | ι        | ınit:mm |  |
|---|--|-----------|------|--------|----------|----------|---------|--|
|   | Model  | Tube dia. | *1   | *2     | *3       | *4       | Mass    |  |
|   | Model  | φD        | (mm) | (-KPa) | (Nℓ/min) | (Nℓ/min) | (g)     |  |
|   | VGH 05F-44   | 4         | 0.5  | 91(73) | 7(6.5)   | 11.5(9)  | 124.5   |  |
|   | VGH 07F-66   | •         | 0.7  | 93(71) | 13(13)   | 23(17)   | 127.5   |  |
|   | VGH 10F-66   | 6         | 1    | 93(71) | 27(27)   | 46(34)   | 127     |  |
|   | VGL 05F-44   | 4         | 0.5  |        | 12       | 11.5     | 407     |  |
|   | VGL 07F-66   |           | 0.7  | 67     | 26       | 23       | 127     |  |
| ! | VGL 10F-66   | 6         | 1    |        | 40       | 46       | 126.5   |  |
|   | VGE 07F-66   | 6         | 0.7  | 0.4    | 10.5     | 17       | 407.5   |  |
| Ì | VGE 10F-66   |           | 1    | 91     | 21       | 34       | 127.5   |  |
|   | Ad Nondo die de Cinal de como de Ocation flore de A Ain conservation |           |      |        |          |          |         |  |



\*1 Nozzle dia. \*2 Final vacuum \*3 Suction flow \*4 Air consumption

