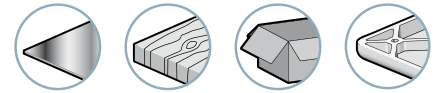


# GVR 09, 10, 12, 14

## Micro Ejectors



Industry-specific applications



The GVR range is designed for an industrial environment:

- Compact
- Lightweight
- Optimized technical characteristics
- Pollution-resistant with its through-type silencer (SILK 18C)
- Easily integrated onto vacuum gripper
- Pass-through mounting using M10 screws (GVR09)

### Advantages

- Adaptable to all industries
- Lightweight and compact
- Reduced gripping time
- Direct installation on suction cups
- Excellent mechanical resistance
- Blow-off option
- No clogging
- Silent operation

### Characteristics

| Models | Ø nozzle | Air consumed (Nl/min) | Maximum vacuum (%) | Air drawn in (Nl/min) | At air pressure (bar) |
|--------|----------|-----------------------|--------------------|-----------------------|-----------------------|
| GVR 09 | 0.9      | 36                    | 85                 | 21                    | 5                     |
| GVR 10 | 1        | 44                    | 85                 | 27                    | 5                     |
| GVR 12 | 1.2      | 67                    | 85                 | 45                    | 5                     |
| GVR 14 | 1.4      | 108                   | 85                 | 64                    | 5                     |

Note: All dimensions are in mm

### Evacuation Time in Seconds per Liter

| % vacuum | 10 % | 20 % | 30 % | 40 % | 50 % | 60 % | 70 % | 80 % | 85 % |
|----------|------|------|------|------|------|------|------|------|------|
| GVR 09   | 0.31 | 0.65 | 1.05 | 1.52 | 2.09 | 2.85 | 3.87 | 5.7  | 7.34 |
| GVR 10   | 0.24 | 0.51 | 0.82 | 1.18 | 1.62 | 2.21 | 3.01 | 4.43 | 5.71 |
| GVR 12   | 0.14 | 0.3  | 0.49 | 0.71 | 0.97 | 1.33 | 1.81 | 2.66 | 3.42 |
| GVR 14   | 0.1  | 0.21 | 0.34 | 0.5  | 0.68 | 0.93 | 1.27 | 1.85 | 2.44 |

### Specifications

|                            |  |
|----------------------------|--|
| Supply                     | Non-lubricated filtered air, pressure 2 to 6 bar |
| Optimum operating pressure | 5 bar  |
| Weight                     | 40 g   |
| Material                   | 2017A - Cu Zn                                    |
| Temperature                | 0 to 80 °C.                                      |

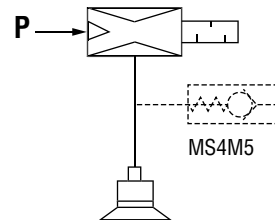
### Additional Information

#### As standard

- Vacuum switch or blow-off switch with SILGV 10. SILK18C silencer (through-type) on request.

#### Optional

- MS2M5 or MS4M5 blow-off valves with non-return valve on vacuum (see page 10/4).



When ordering, please specify:  
Model + Nozzle diameter + Silencer  
e.g.: GVR12K

| 1: Model | 2: Ø nozzle | 3: Silencer |                            |
|----------|-------------|-------------|----------------------------|
| GVR      | 09          | Ø 0.9 mm    | - Without                  |
|          | 10          | Ø 1 mm      | S SILGV 10                 |
|          | 12          | Ø 1.2 mm    | K SILK 18 C <sup>(1)</sup> |
|          | 14          | Ø 1.4 mm    |                            |

(1) SILK 18 C through-type silencer dimensions, see page 10/3.

# GVR 09, 10, 12, 14

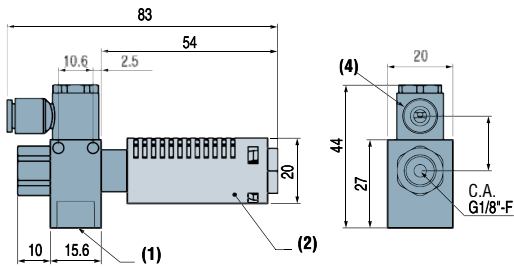
## Micro Ejectors

### Dimensions and Data Curves

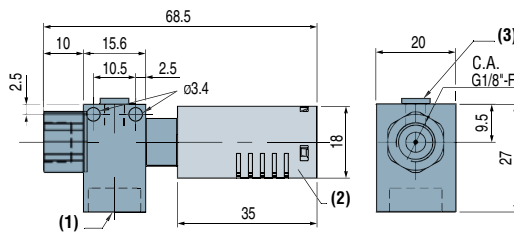


#### Dimensions

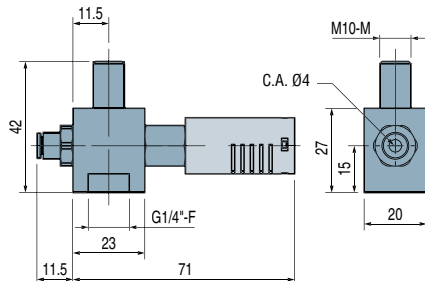
##### GVR 10, 12, 14 + MS4M5



##### GVR 10, 12, 14

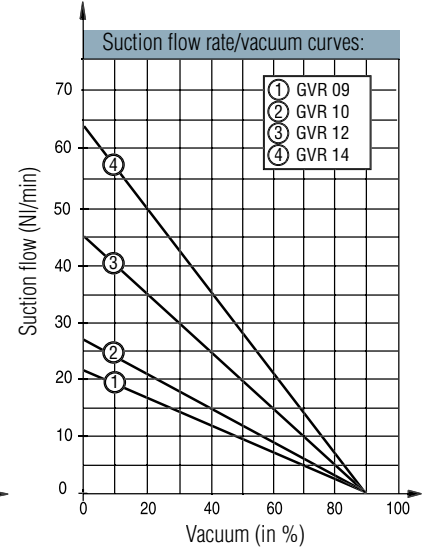
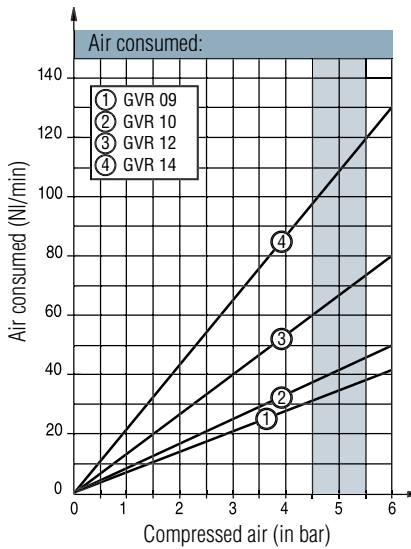
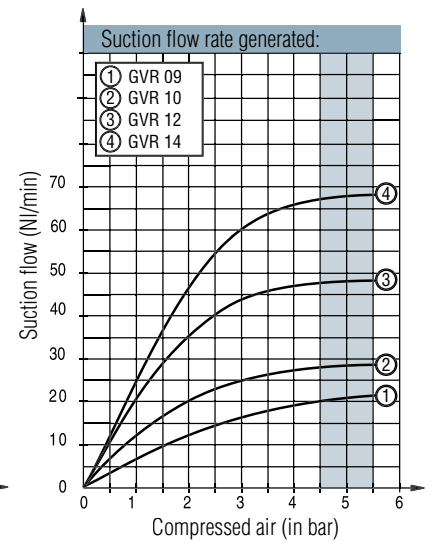
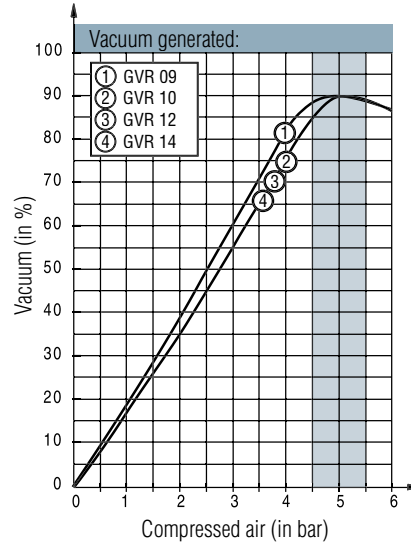


##### GVR 09



- (1) Vacuum G1/4"-F
- (2) Silencer
- (3) M5-F plug for vacuum switch
- (4) Push fitting, outside Ø 6

#### Data Curves



Note: All dimensions are in mm