



GVR Series Vacuum regulator

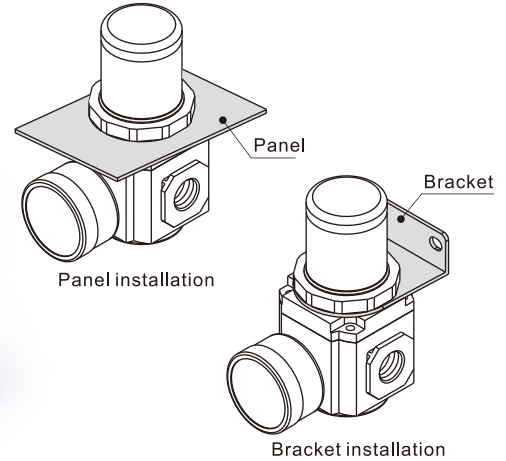
Compendium of GVR Series

Pressed-in self-locking mechanism

The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.

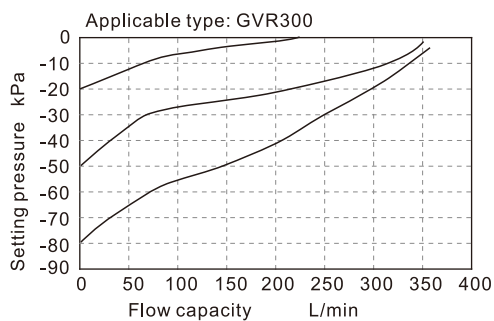
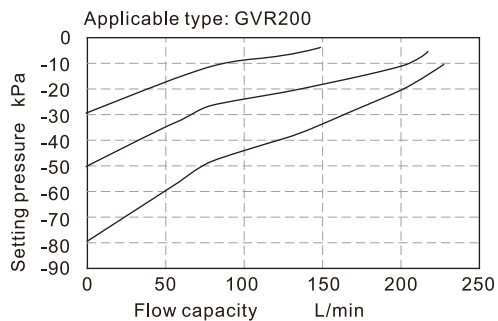
Suitable to adjust the vacuum pressure

Panel installation and bracket installation are optional

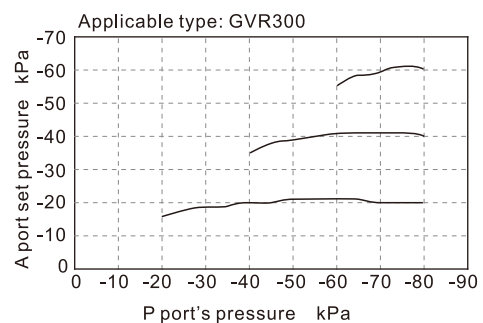
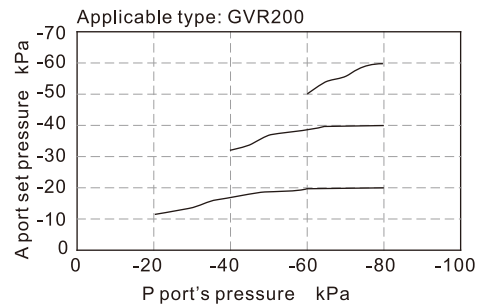


Flow chart and Pressure chart

Flow chart



Pressure chart



Installation and Application

1. Please be used with safety circuit to avoid accidents when power failure, vacuum pump and vacuum regulator fail.
2. When checking, please set the pressure to 0 (atmospheric pressure) and completely cut off the pressure of the vacuum pump before pulling down the tube of the regulator.
3. The vacuum regulator can not be used to regulate the pressure of the vacuum pump, if the flow capacity of the vacuum generator is less than the flow capacity of the vacuum regulator, it is not suitable as a vacuum source.
4. The regulating knob rotates clockwise, the atmospheric pressure changes to the vacuum pressure, turns counterclockwise, the vacuum pressure changes to atmospheric pressure.
5. After setting the pressure, press the button on the pressure adjusting button until you hear the click.
6. The vacuum regulator is used for negative pressure, and no positive pressure should be applied.



Vacuum regulator

GVR Series



Specification

| Model | GVR200-06 | GVR200-08 | GVR300-08 | GVR300-10 |
|----------------------------|--------------------------|-----------|-----------|-----------|
| Fluid | Air | | | |
| Port size [Note1] | 1/8" | 1/4" | 1/4" | 3/8" |
| Pressure range | -100~-1.3kPa | | | |
| Max. pressure | -1.0kPa | | | |
| Air inhalation consumption | 0.6 L/min(ANR) and below | | | |
| Temperature range | -20~70°C | | | |
| Weight g | 204 | 198 | 342 | 336 |

[Note1] NPT thread and G thread are available.

Symbol



Product feature

1. The pressed-in self-locking mechanism can prevent the abnormal movement of the set pressure caused by external interfere.
2. The pressure regulation is stable, the drift is small and the pressure characteristic is good.
3. In addition to panel installation, the bracket is optional for installation.

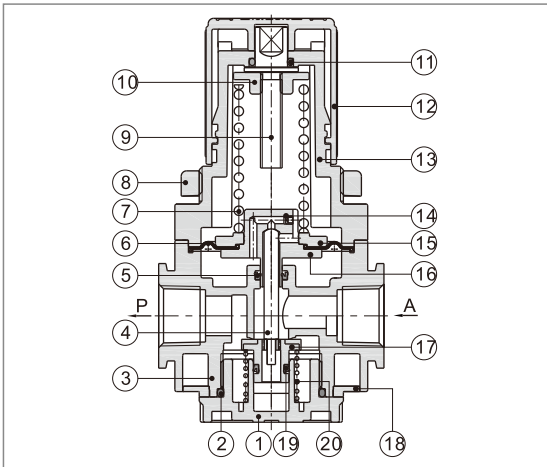
Ordering code

GVR300 10 □ □ □



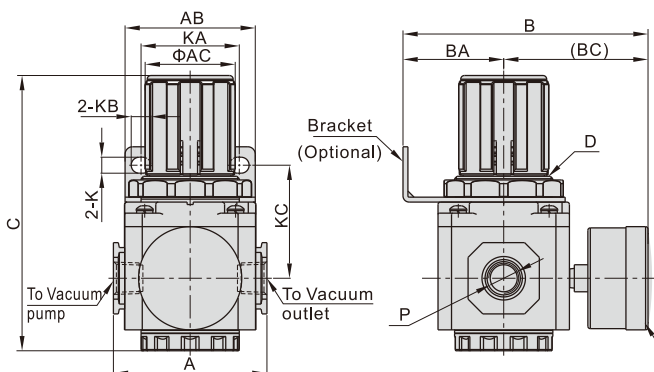
| | | |
|------------------|--|-------------------------------------|
| ① Model | GVR200: 200 series vacuum regulator | GVR300: 300 series vacuum regulator |
| ② Port size | 06: PT1/8 08: PT1/4 | 08: PT1/4 10: PT3/8 |
| ③ Accessories | Blank: Bracket J: No bracket | |
| ④ Pressure gauge | Blank: Pressure gauge N: No pressure gauge | |
| ⑤ Thread type | Blank: PT(kPa & psi) G: G(kPa & psi) T: NPT(kPa & psi) | |

Inner structure



| No. | Item | Material | No. | Item | Material |
|-----|-------------------|------------------|-----|---------------------|-----------------|
| 1 | Valve cap | POM | 11 | O-ring | NBR |
| 2 | O-ring | NBR | 12 | Pressure knob | POM |
| 3 | Body | Aluminum alloy | 13 | Adjusting seat | POM |
| 4 | Spool | Aluminum alloy | 14 | Gas resistance | Aluminum alloy |
| 5 | O-ring | NBR | 15 | Diaphragm up core | Aluminum alloy |
| 6 | Diaphragm | NBR | 16 | Diaphragm down core | Aluminum alloy |
| 7 | Spring | SWC | 17 | Pressure plug | Aluminum alloy |
| 8 | Fixed ring | PA66+Glass fibre | 18 | Bottom cover | POM |
| 9 | Adjusting spindle | 08A | 19 | O-ring | NBR |
| 10 | Regulator nut | Steel | 20 | Spring | Stainless steel |

Dimensions



| Model\Item | A | AB | AC | B | BA | BC | C | D | K | KA | KB | KC | P |
|------------|------|----|----|------|----|------|-----|---------|-----|----|------|----|------|
| GVR20006 | 52.5 | 55 | 31 | 83 | 30 | 53 | 89 | M33X1.5 | 5.4 | 34 | 15.4 | 43 | 1/8" |
| GVR20008 | 52.5 | 55 | 31 | 83 | 30 | 53 | 89 | M33X1.5 | 5.4 | 34 | 15.4 | 43 | 1/4" |
| GVR30008 | 62.5 | 53 | 38 | 99.5 | 41 | 58.5 | 112 | M40X1.5 | 6.5 | 40 | 8 | 46 | 1/4" |
| GVR30010 | 62.5 | 53 | 38 | 99.5 | 41 | 58.5 | 112 | M40X1.5 | 6.5 | 40 | 8 | 46 | 3/8" |