### Model VPU VACUUM SYSTEM

#### Dry/wet operations

**Dry operation** (Wet operation not allowed)

A vacuum system dedicated to the vacuum chucks. The chuck side is evacuated continuously in order to effectively maintain atmospheric pressure on the workpiece on the chuck work face. Note that this system must not be modified to a pressure container.

**Features**
- A vacuum evacuation system, filter, vacuum tank and vacuum gage are incorporated neatly.
- Suction and evacuation operations to mount and demount workpieces can be done quickly and easily with the attached special operating handle.
- A difference in pressure over 80 kPa (600 mmHg) can be obtained continuously.

#### Ejector type VPU-E

A vacuum system to reduce pressure by jetting air at high pressure (principle of the spray gun). This is recommended when an air line by use of a compressor is installed. This type can be used for both wet and dry machining operations. However, the use of a lubricator in the air line must be avoided.

#### Dry pump type VPU-D

A vacuum system to reduce pressure by evacuation by a pump driven by a motor. A power source only is required to obtain an independent vacuum source. Note, however, this is recommended only for dry machining operations.

#### Other types

If the physical contact with the bottom face of workpieces is poor, a large amount of air leaks, requiring a large evacuation amount. In such a case, a blower type is required for dry operations and a water-sealed vacuum pump is required for wet operations depending on working conditions. Please contact us.

### Piping of vacuum system

#### Vacuum system (VPU-E)

- **Vacuum system**
  - Compressed air
  - Operating valve
  - Vacuum chuck

#### Vacuum system (VPU-D)

- **Vacuum system**
  - Compressed air
  - Operating valve
  - Vacuum chuck

### Model VPU-EG VACUUM SYSTEM

#### Light weight and compact. Satisfactory functions!

**Application**
A vacuum system dedicated to the grid seal type vacuum chucks.

**Features**
- The vacuum tank has been eliminated to make a very compact size compared with the conventional model (VPU-E10). This system can be handled easily.
- A function to check the vacuum status is incorporated.
- This is for dry operation.
- Auxiliary functions in consideration of operating status and safety are incorporated. (Vacuum adjustment, interlock with the machine via vacuum check output signals, etc.)

### Model VPU-O VACUUM SYSTEM

#### Operation block with vacuum gage

**Application**
An option to facilitate the use of vacuum chucks.

**Features**
- The operating valve and the vacuum gage have been integrated to enable it to check the state of workpiece holding near the chuck.
- By changing the location of the blank cap, a position to mount the vacuum gage can be selected from three places.