Bernoulli Type Non-contact Gripper

For the adsorption transfer of thin cloths, films, printed circuit boards, etc.

High lifting force compared with the existing model: 4.4 times
(Supply pressure: 0.5 [MPa], For non-permeable workpieces)

Construction and working principle

Application Examples

How to Order

Specifications

XT661-X427

The specifications and details can be found in the Web Catalog and the Operation Manual.
Safety Instructions

Be sure to read the “Handling Precautions for SMC Products” (M-E03-3) before use.

These graphs show the data when adsorbing smooth and non-permeable workpieces with a basic type model.

Lifting force values when adsorbing workpieces with bumps or permeable workpieces will be lower than those shown in the graphs above.

For the lifting force when using a stopper or vibration suppression cover, use the following values as a guide for the distance from the workpiece. With stopper: 1 mm, With vibration suppression cover: 1.5 mm

Dimensions

Basic type

With stopper

With vibration suppression cover

Supply air to either air supply port A or B.

Seal the unused ports with plugs.

Seal the multi-port with a plug when not in use.

When using a stopper, the workpiece comes into contact with the stopper.

When using a vibration suppression cover, the workpiece comes into contact with the cover.

The stopper and cover cannot be used together.

Supply air to either air supply port A or B.

Seal the unused ports with plugs.

Seal the multi-port with a plug when not in use.

When using a stopper, the workpiece comes into contact with the stopper.

When using a vibration suppression cover, the workpiece comes into contact with the cover.

The stopper and cover cannot be used together.

The product is shipped with plugs in the air supply port A and multi-port.

The O-ring is not included. Attach an O-ring (14.5 x 11.5 x 1.5) if necessary.

The pressure sensor is shipped together with the product but does not come assembled.

The value of the pressure sensor differs depending on the workpiece. Customers should conduct a test with the actual product before use.

1 Supply air to either air supply port A or B.

2 Seal the unused ports with plugs.

3 When using a stopper, the workpiece comes into contact with the stopper.

4 When using a vibration suppression cover, the workpiece comes into contact with the cover.

5 The stopper and cover cannot be used together.

6 The product is shipped with plugs in the air supply port A and multi-port.

7 The O-ring is not included. Attach an O-ring (14.5 x 11.5 x 1.5) if necessary.

8 The pressure sensor is shipped together with the product but does not come assembled.

9 The value of the pressure sensor differs depending on the workpiece. Customers should conduct a test with the actual product before use.