

Dispersive Vacuum Pad & Buffer

Various pads & buffers applicable to wide range of electrostatic environments



Anti Static Vacuum Pad : Surface Resistivity 10[°]~10[°]Ω/□ **ZP-905-CJXN0525 Series** Pad diameter 04, 06, 08, 010, 015, 016, 020, 025, 030

How to Order



A Handling Precautions

Be sure to read this before handling the products.Refer to back page for Safety Instructions and Product Handling Precautions on SMC hompage for Vacuum Equipment Precautions.

- 1. Use the anti-static pad for static-sensitive workpieces to disperse static electricity generated by friction with the workpieces.
- 2. Select the optimal shape of vacuum pad in accordance with the workpiece and operating environment because the surface resistance is affected by the operating environment (temperature, humidity).
- 3. The application varies depending on the shape of the vacuum pad. Select the optimal shape in accordance with the workpiece and operating environment.
- 4. Use the spring built-in type of buffer together in case that the height of pad and workpiece is not constant, such as the adsorption of a work with uneven height.
- 5. Continued use of the anti-static vacuum pad(rubber) will cause wear and the exterior dimensions will gradually get smaller and smaller. As the pad diameter gets smaller, lifting force will be decreased, but it is available to adsorb.
- 6. The replacement timing of vacuum pads depends on the operating conditions, such as external change by wear reduction of vacuum pressure reached, delayed response time of adsorption, etc. In case of such an any abnormality, replace it through inspection.



Dispersive vacuum pad ZP-905-CJXN0525 Series

Dimensions: Vaccum Pad





										(mm)
Symbol	Α	в	С	D	Е	F	G	н	I	Y
04	4	4.8	1.5	6.5	5	3	3.5	1.4	6.5	0.8
06	6	6.7	2	6.5	5	3	3.5	1.4	6.5	1

UM Type øD øΕ øF ശ ġС øΑ øВ The shape of groove differs on the pad diameter(Ø).

										(mm)
Symbol	A	в	с	D	Е	F	G	н	Т	Y
06	6	6.5	2	7	5	3	3.5	1.5	6	0.8
08	8	8.5	2	7	5	3	3.5	1.5	6	0.8
10	10	11	2	9	6	4	4	2	7	1
16	16	17	2	9	6	4	4	2	7	1.2



										(mm)
Symbol	Α	в	с	D	Е	F	G	н	Т	Y
10	10	11	1.6	8	5	3	3.5	1.4	6.5	0.3
15	15	16	1.5	8.5	6	4	4	2	5.5	0.3
20	20	21	1.5	13.5	10	6	4	2	5.5	0.3
25	25	26	1.5	15	10	6	4	2	5.5	0.3
30	30	31	1.5	18	10	6	4	2	5.5	0.3

МВ Туре



												(mm)
Symbol	Α	в	С	D	Е	F	G	н	I	J	к	Y
08	8	9	2.5	8	6	4	4	2	9	9.6	4.7	4
10	10	11	-	11	7.8	4.6	3.5	-	9.5	10.8	6.8	3

Pad diameter : ø8

Pad diameter : ø10

ZP-905-CJXN0525 Series

Mounting adapter Part No.and dimensions (Material : SUS)



*Gasket thickness : 0.5t

*In MT specification, the gasket is not mounted on the adapter.



Vacuum Pad Buffer ZP3-CJXU0723 Series

Applied resin-containing bushing to prevent particles generation
Insert type (Fixed type) uses filters to prevent the scattering of internal particles



Select pad or pad with adapter after checking dimension of the pad accessories.
Please check the available range of strokes depending on the body size mounting type before selecting.

Buffer Spring force (default state: no load)

Fixed type



Inserted type



%1g=0.0098N.

**The actual buffer force is 10 to 20% stronger than the spring force due to the resistance of the folding inside of the buffer.



ZP3-CJXU0723 Series

Dimensions / Fixed Type buffer



D10 S

D0803S



D10 SM





D14 SM



Dimensions

Dimensions (mm									
D0803S	32.5	6.5	26						
D1010S	51	15	36						
D1010SM	50	14	36						
D1015S	62	20	42						
D1015SM	61	19	42						
D1410SM	50	14	36						
D1420SM	72	24	48						

Dimensions / Insert type buffer

M08 Stype (extended state)



Gasket tightening tool for Insert type

Use the enclosed dedicated gasket and tightening tool, and fasten them as shown below.



Dimensions of the dedicated gasket tightening tool



*Please use the above P/N for additional orders for replacement/maintenance of dedicated gaskets and clamps.

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- 1. The life of a buffer will be shortened when the lateral force is applied to the buffer rod
- 2. Tighthen the nut and cap nut with the recommended torque
- M8 : 5~2.0NM, M10 : 2~3NM, M14 : 6.5~7.6NM
- 3. As the nut may become loose depending on the operating conditions and environment, be sure to perform regular maintenance.
- 4. Insert type (Fixed type) buffer may cause a pressure drop of 0~1kPa depending on the operating conditions and environment.
- * 5. Do not block the hole as the top of the cap nut when using the insert type (fixed type) of buffer
- 6. First, Check the dimensions in the specification. Then assurtive the insert type(Fixed type) is property installen in the Jig

Related Products



▲ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "**Caution**," "**Warning**" or "**Danger**." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)^{*1}, and other safety regulations.

- ч. *1) ISO 4414: Pneumatic fluid power - General rules relating to systems. Caution: Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury. ISO 4413: Hydraulic fluid power - General rules relating to systems. IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements) Marning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury. ISO 10218-1: Manipulating industrial robots - Safety. etc. **Danger :** Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury. - e ▲Caution **Warning** 1. The compatibility of the product is the responsibility of the 1. The product is provided for use in manufacturing industries. person who designs the equipment or decides its The product herein described is basically provided for peaceful use in manufacturing industries. specifications. If considering using the product in other industries, consult SMC beforehand Since the product specified here is used under various operating conditions, and exchange specifications or a contract if necessary its compatibility with specific equipment must be decided by the person who If anything is unclear, contact your nearest sales branch. designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined Limited warranty and Disclaimer/ its compatibility with the product. This person should also continuously **Compliance Requirements** review all specifications of the product referring to its latest catalog The product used is subject to the following "Limited warranty and Disclaimer" and information, with a view to giving due consideration to any possibility of "Compliance Requirements". equipment failure when configuring the equipment. Read and accept them before using the product. 2. Only personnel with appropriate training should operate machinery and equipment. Limited warranty and Disclaimer The product specified here may become unsafe if handled incorrectly. The 1. The warranty period of the product is 1 year in service or 1.5 years after assembly, operation and maintenance of machines or equipment including the product is delivered, whichever is first.*2) our products must be performed by an operator who is appropriately trained Also, the product may have specified durability, running distance or and experienced. replacement parts. Please consult your nearest sales branch. 3. Do not service or attempt to remove product and machinery/ 2. For any failure or damage reported within the warranty period which is clearly our equipment until safety is confirmed. responsibility, a replacement product or necessary parts will be provided. 1. The inspection and maintenance of machinery/equipment should only be This limited warranty applies only to our product independently, and not to any performed after measures to prevent falling or runaway of the driven other damage incurred due to the failure of the product. objects have been confirmed. 3. Prior to using SMC products, please read and understand the warranty terms 2. When the product is to be removed, confirm that the safety measures as and disclaimers noted in the specified catalog for the particular products. mentioned above are implemented and the power from any appropriate *2) Vacuum pads are excluded from this 1 year warranty. source is cut, and read and understand the specific product precautions A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. of all relevant products carefully. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad 3. Before machinery/equipment is restarted, take measures to prevent or failure due to the deterioration of rubber material are not covered by the limited warranty. unexpected operation and malfunction. **Compliance Requirements** 4. Contact SMC beforehand and take special consideration of 1. The use of SMC products with production equipment for the manufacture of safety measures if the product is to be used in any of the weapons of mass destruction (WMD) or any other weapon is strictly prohibited. following conditions. 2. The exports of SMC products or technology from one country to another are 1. Conditions and environments outside of the given specifications, or use governed by the relevant security laws and regulations of the countries involved outdoors or in a place exposed to direct sunlight. in the transaction. Prior to the shipment of a SMC product to another country, 2. Installation on equipment in conjunction with atomic energy, railways, air assure that all local rules governing that export are known and followed. navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press Caution applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog. SMC products are not intended for use as instruments for legal 3. An application which could have negative effects on people, property, or metrology. animals requiring special safety analysis. Measurement instruments that SMC manufactures or sells have not been 4. Use in an interlock circuit, which requires the provision of double interlock
 - for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

A Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.