Vacuum Pad Ø 20, Ø 25, Ø 35, Ø 50



Good for film packaging applications where the shape of the workpiece changes easily from being lifted.

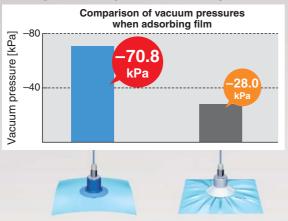
Silicone rubber compliant with the FDA (USA Food and Drug Administration) 21CFR§177.2600 elution test is used.

Blue coloured pad

Easy to distinguish the vacuum pad by colour during contamination inspection.

Reduced leakage

Sealing skirt design, better sealing performance even for thin films.



Pad for film packaging application

Flat type pad/ Flat type pad with ribs

Reduction of wrinkles made on thin workpieces (film, vinyl, etc.) during adsorption

Wrinkle prevention with the stopper in the centre of the vacuum pad







Variations

Form		Pad Diam			Vacuum Inlet / Mounting	Buffer Stroke	Page
FUIII	Ø 20	20 Ø 25 Ø 35 Ø 50		Ø 50	vacuum met/ mounting	Duffer Stroke	Гауе
Pad Unit					_	_	2
Male thread					M5 x 0.8, M12 x 1.75 G1/8, G1/4, G3/8	_	3
Female thread					M5 x 0.8 M8 x 1.25	_	5
Female thread					Vacuum inlet: M5 x 0.8, Rc1/8 Mounting: M10 x 1, M14 x 1	10 mm/20 mm	6

INDEX

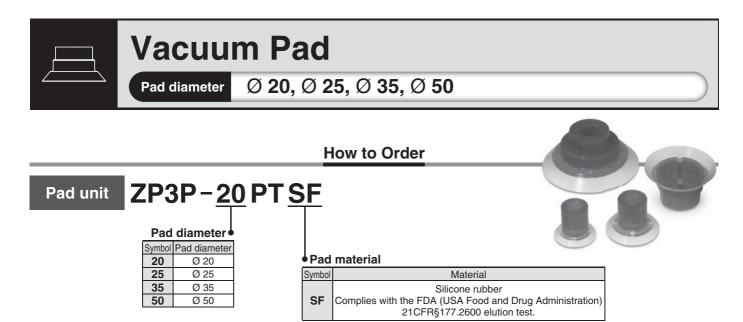
Vacuum Pad

Ø 20, Ø 25, Ø 35, Ø 50

Pad Unit

How to Order	•
Vertical Vacuum Inlet, With Adapter	
How to Order	р. З
Dimensions	р. З
Vertical Vacuum Inlet, With Buffer	
How to Order	р. 6
Dimensions	p. 6
Construction	p. 9
Parts Structure p). 10
Mounting Adapter Part Nos. p). 11
Buffer Assembly Part Nos.), 12

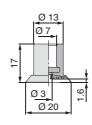




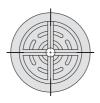
Dimensions: Pad Unit

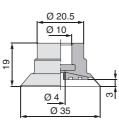
ZP3P-20PTSF [Weight: 1.8 g]



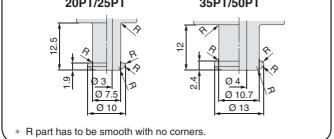


ZP3P-35PTSF [Weight: 4.7 g]

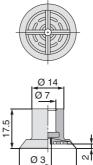




Pad Mounting Dimensions 20PT/25PT 35PT/50PT

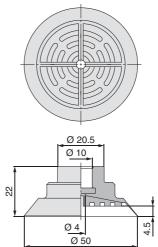


ZP3P-25PTSF [Weight: 2.2 g]

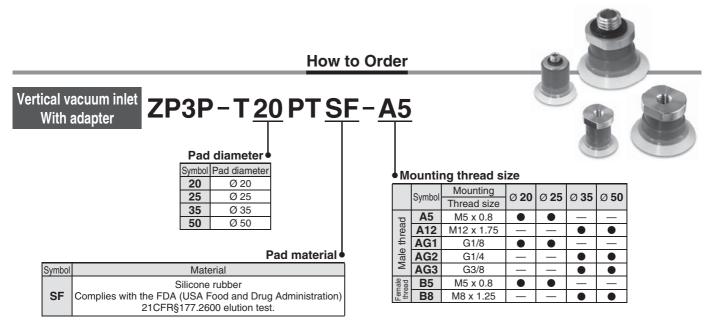


ZP3P-50PTSF [Weight: 12.4 g]

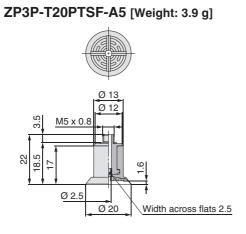
Ø 25



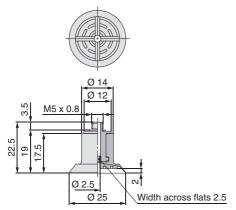
ZP3P Series



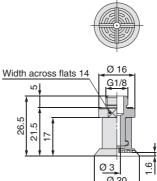
Dimensions: With Male Thread Adapter



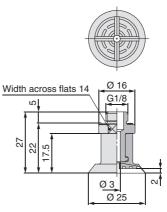
ZP3P-T25PTSF-A5 [Weight: 4.3 g]

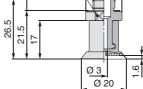


ZP3P-T20PTSF-AG1 [Weight: 5.9 g]



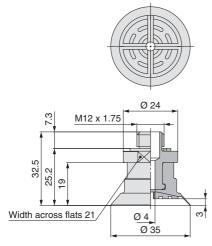
ZP3P-T25PTSF-AG1 [Weight: 6.3 g]





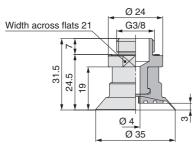
Dimensions: With Male Thread Adapter

ZP3P-T35PTSF-A12 [Weight: 20.7 g]

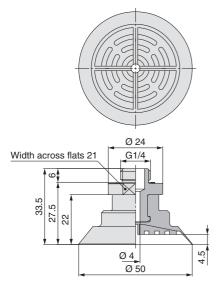


ZP3P-T35PTSF-AG3 [Weight: 21.1 g]



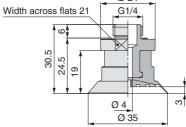


ZP3P-T50PTSF-AG2 [Weight: 22.2 g]

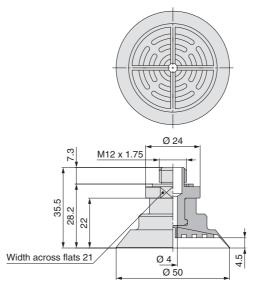


ZP3P-T35PTSF-AG2 [Weight: 14.5 g]

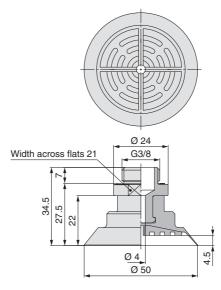




ZP3P-T50PTSF-A12 [Weight: 28.4 g]



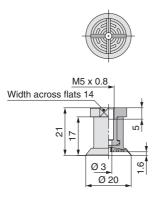
ZP3P-T50PTSF-AG3 [Weight: 28.8 g]



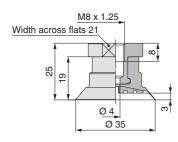
ZP3P Series

Dimensions: With Female Thread Adapter

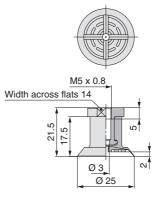
ZP3P-T20PTSF-B5 [Weight: 4.9 g]



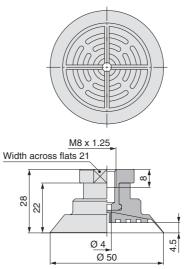
ZP3P-T35PTSF-B8 [Weight: 13.2 g]



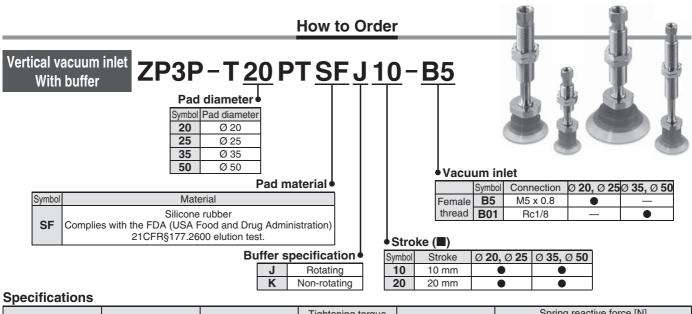
ZP3P-T25PTSF-B5 [Weight: 5.3 g]



ZP3P-T50PTSF-B8 [Weight: 20.9 g]



Vertical Vacuum Inlet, With Buffer **ZP3P** Series



Pad diameter B	Suffer specification	Stroke [mm]	Tightening torque	Mounting	Spring react	ive force [N]
Fad diameter D	sumer specification	Stroke [mm]	[N·m]	Mounting	At 0 stroke	At full stroke
Ø 20 , Ø 25	J/K	10, 20	2.5 to 3.5	M10 x 1	1.0	3.0
Ø 35 , Ø 50	J/K	10, 20	6.5 to 7.5	M14 x 1	2.0	5.0

A Precautions

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For vacuum equipment precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: http://www.smc.eu

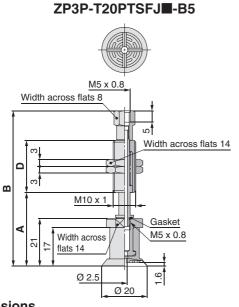
Operating Precautions

▲Caution

1. Cautions for selecting buffer

Buffers have general industrial grease applied, and are therefore not compliant with FDA. Metal wear particles will be generated due to the sliding motion of the buffer. Please take this into consideration before use and decide whether this pad is suitable for your application.

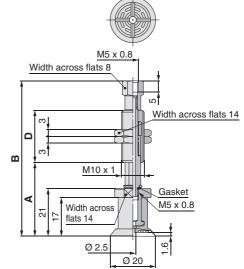
Dimensions: With Buffer



Dimensions

Part no.	Α	В	D	Weight [g]
ZP3P-T20PTSFJ10-B5	32.5	68.5	23	26.7
ZP3P-T20PTSFJ20-B5	42.5	106.5	51	40.8

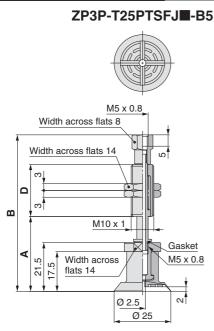
ZP3P-T20PTSFK B-B5



Dimensions

Part no.	Α	В	D	Weight [g]
ZP3P-T20PTSFK10-B5	32.5	68.5	23	28.5
ZP3P-T20PTSFK20-B5	42.5	106.5	51	41.8

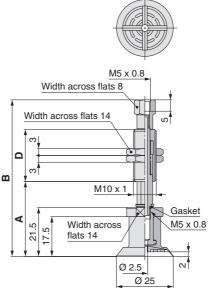
Dimensions: With Buffer



Dimensions

Part no.	Α	В	D	Weight [g]
ZP3P-T25PTSFJ10-B5	33	69	23	27.1
ZP3P-T25PTSFJ20-B5	43	107	51	41.2

ZP3P-T25PTSFK B-B5



Dimensions

Part no.	Α	В	D	Weight [g]
ZP3P-T25PTSFK10-B5	33	69	23	28.5
ZP3P-T25PTSFK20-B5	43	107	51	42.2

ZP3P-T35PTSFK B-B01

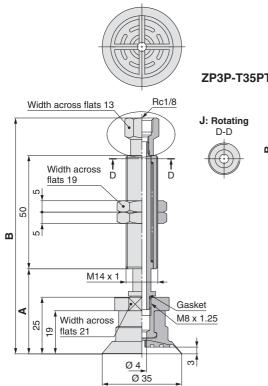
Width across

flats 13

m

ZP3P-T35PTSFJB-B01

ZP3P-T35PTSFJ10-B01



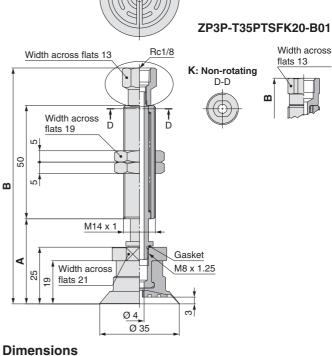
Dimensions

Part no.	Α	В	Weight [g]
ZP3P-T35PTSFJ10-B01	37.5	104	93.6
ZP3P-T35PTSFJ20-B01	47.5	109.5	94.6

ZP3P-T35PTSFJ20-B01

Width across

flats 13



ZP3P-T35PTSFK10-B01

Part no.	Α	В	Weight [g]
ZP3P-T35PTSFK10-B01	37.5	104	93.0
ZP3P-T35PTSFK20-B01	47.5	109.5	94.1

ZP3P-T50PTSFK20-B01

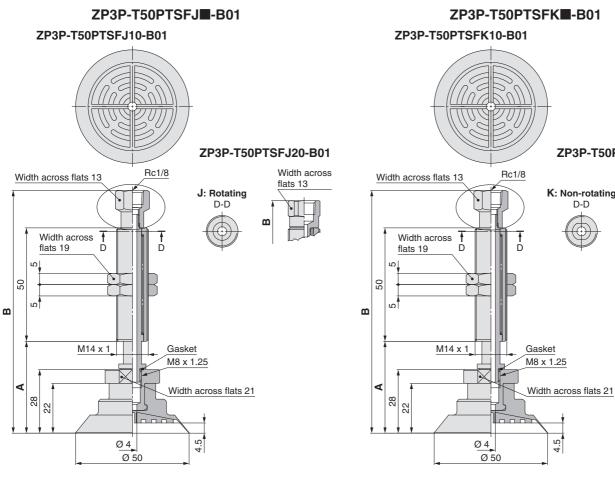
K: Non-rotating

D-D

Width across

flats 13

Dimensions: With Buffer



Dimensions

Part no.	Α	В	Weight [g]
ZP3P-T50PTSFJ10-B01	40.5	107	101.3
ZP3P-T50PTSFJ20-B01	50.5	112.5	102.3

Dimensions

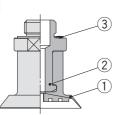
Part no.	Α	В	Weight [g]
ZP3P-T50PTSFK10-B01	40.5	107	100.7
ZP3P-T50PTSFK20-B01	50.5	112.5	101.8

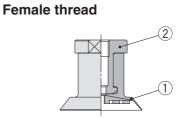
4.5



Pad with Adapter

Male thread

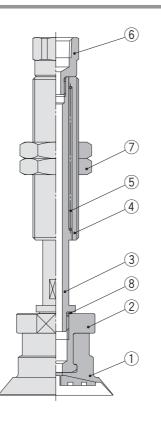




Component Parts

No.	Description	Material (Surface treatment)	Note
1	Vacuum pad	Silicone rubber Complies with the FDA (USA Food and Drug Administration) 21CFR§177.2600 elution test.	
2	Adapter	Aluminium alloy (Clear anodized)	
3	Gasket	Stainless steel/NBR	Thread size: Other than M12 x 1.75
3	Seal washer	Structural steel/NBR	Thread size: M12 x 1.75

Pad with Buffer



Component Parts

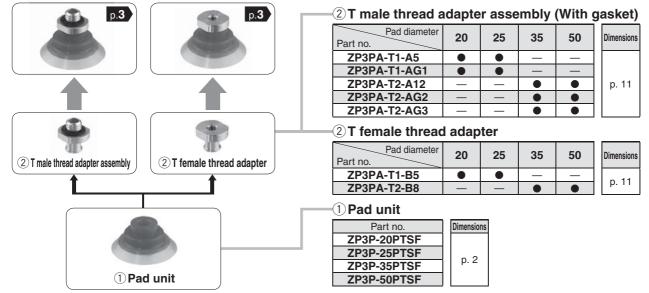
No.	Description	Material (Surface treatment)				
1	Vacuum pad	Silicone rubber Complies with the FDA (USA Food and Drug Administration) 21CFR§177.2600 elution test.				
2	Adapter	Aluminium alloy (Clear anodised)				
3	Piston rod	Stainless steel Brass (Electroless nickel plating) Stainless steel				
4	Buffer body					
5	Return spring					
6	Buffer adapter	Brass (Electroless nickel plating)				
7	Nut	Brass (Nickel plating)				
8	Gasket	Stainless steel/NBR				

SMC

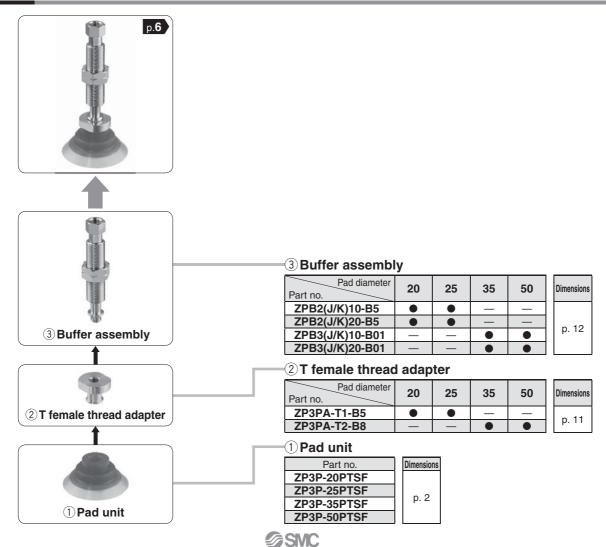


With Type T Adapter

ZP3P-T (20 to 50) PTSF-(A5/AG1/A12/AG2/AG3) ZP3P-T (20 to 50) PTSF-(B5/B8)

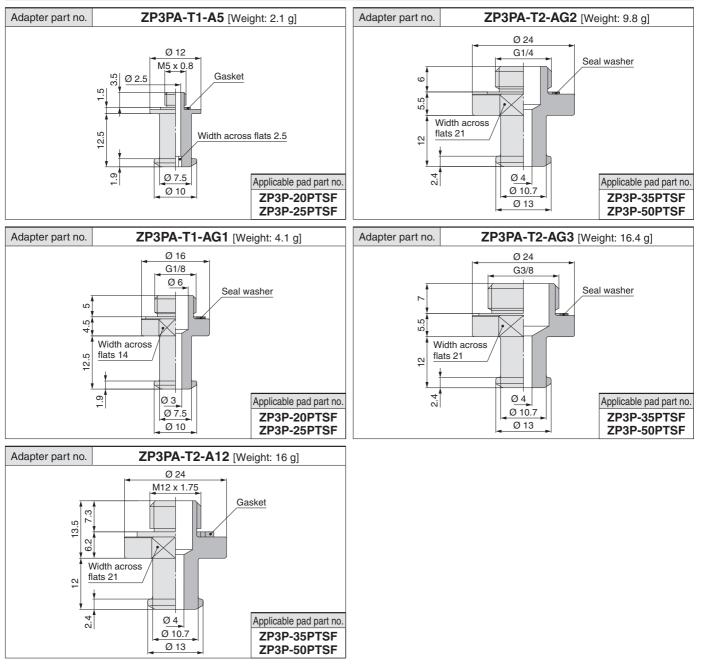


With Buffer

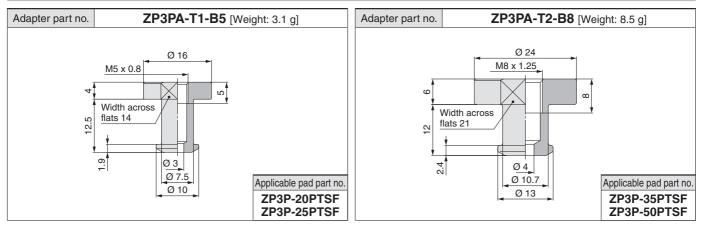


ZP3P Series Mounting Adapter Part Nos.

Male Thread Adapter

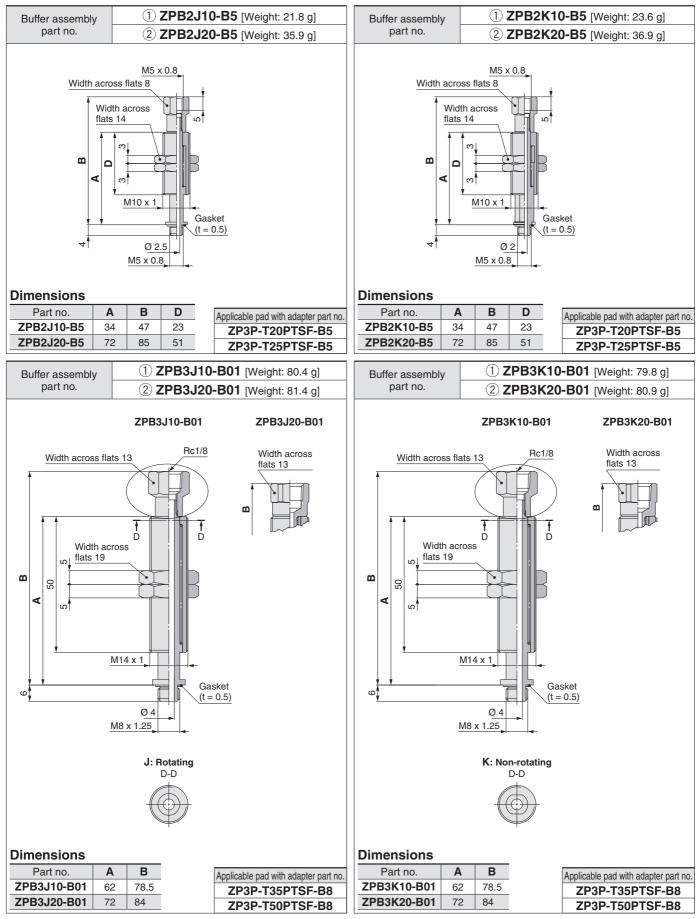


Female Thread Adapter



SMC

ZP3P Series Buffer Assembly Part Nos.



SMC

▲ 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.

н

etc.

Caution indicates a hazard with a low level of risk ▲ Caution: which, if not avoided, could result in minor or moderate injury.

Warning indicates a hazard with a medium level of risk \triangle Warning: which, if not avoided, could result in death or serious injury.

Danger indicates a hazard with a high level of risk A Danger : Which, if not avoided, will result in death or serious injury. ------

🗥 Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who 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 its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- 3.Do not service or attempt to remove product and machinery/equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Installation on equipment in conjunction with atomic energy, railways, air 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 applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalogue.
 - 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
 - 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

∧ Caution

1. The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary

If anything is unclear, contact your nearest sales branch.

*1) ISO 4414: Pneumatic fluid power - General rules relating to systems. ISO 4413: Hydraulic fluid power - General rules relating to systems. IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements) ISO 10218-1: Manipulating industrial robots - Safety.

Limited warranty and Disclaimer/ Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" "Compliance Requirements". and Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years the product is delivered, wichever is first.*2) after Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
 - *2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed

∕ ∩Caution

SMC products are not intended for use as instruments for legal metrology.

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.

✓ Safety Instructions Be sure to read "Handling Precautions for SMC Products" (M-E03-3) before using.

Austria	2 +43 (0)2262622800	www.smc.at	office@smc.at	Lithuania	🕿 +370 5 2308118	www.smclt.lt	info@smclt.lt
Belgium	2 +32 (0)33551464	www.smcpneumatics.be	info@smcpneumatics.be	Netherlands	🕿 +31 (0)205318888	www.smcpneumatics.nl	info@smcpneumatics.nl
Bulgaria	2 +359 (0)2807670	www.smc.bg	office@smc.bg	Norway	2 +47 67129020	www.smc-norge.no	post@smc-norge.no
Croatia	2 +385 (0)13707288	www.smc.hr	office@smc.hr	Poland	2 +48 222119600	www.smc.pl	office@smc.pl
Czech Republic	2 +420 541424611	www.smc.cz	office@smc.cz	Portugal	🕿 +351 226166570	www.smc.eu	postpt@smc.smces.es
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Estonia	2 +372 6510370	www.smcpneumatics.ee	smc@smcpneumatics.ee	Russia	🕿 +7 8127185445	www.smc-pneumatik.ru	info@smc-pneumatik.ru
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Germany	2 +49 (0)61034020	www.smc.de	info@smc.de	Spain	2 +34 902184100	www.smc.eu	post@smc.smces.es
Greece	2 +30 210 2717265	www.smchellas.gr	sales@smchellas.gr	Sweden	2 +46 (0)86031200	www.smc.nu	post@smc.nu
Hungary	2 +36 23513000	www.smc.hu	office@smc.hu	Switzerland	2 +41 (0)523963131	www.smc.ch	info@smc.ch
Ireland	🕿 +353 (0)14039000	www.smcpneumatics.ie	sales@smcpneumatics.ie	Turkey	2 +90 212 489 0 440	www.smcpnomatik.com.tr	info@smcpnomatik.com.tr
Italy	2 +39 0292711	www.smcitalia.it	mailbox@smcitalia.it	UK	🕿 +44 (0)845 121 5122	www.smcpneumatics.co.uk	sales@smcpneumatics.co.uk
Latvia	🕿 +371 67817700	www.smclv.lv	info@smclv.lv				-