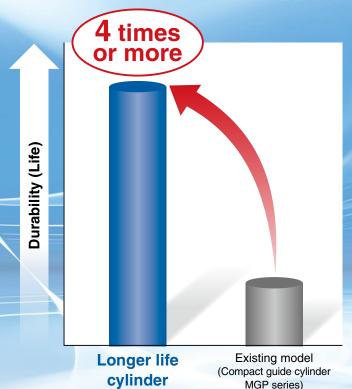
Longer Life Cylinder



New technology offers at least 4 times better durability



 The maintenance intervals will be extended



 Employs the same specification and mounting dimensions as the existing models, MGP Compact Guide Cylinder series

Based on SMC's specific testing conditions

High Durability Series

High Durability Series is the series name for the "special specification" that offers superior durability and environmental resistance compared to standard products.

Series Variations

| Series | Action | Model | Bearing | | В | ore si | ze [mr | n] | | Cushion | Standard stroke | | |
|-----------------------------------|------------------|----------|------------------|----|----|--------|--------|----|----|-----------------------------|---|--|--|
| Series | ACTION | Model | Dearing | 12 | 16 | 20 | 25 | 32 | 40 | Cushion | [mm] | | |
| Compact guide cylinder MGP series | Double acting | MGP-XB24 | Slide bearing | • | • | • | • | • | • | Rubber bumper on both sides | ø12, ø16: 10 to 150 ø20, ø25: 20 to 200 ø32, ø40: 25 to 200 | | |

MGP-XB24



High Durability Series

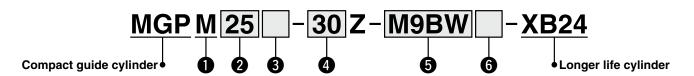
Longer Life Cylinder

MGP-XB24

Ø12, Ø16, Ø20, Ø25, Ø32, Ø40



How to Order



Bearing type

M Slide bearing

2 Bore size

| 12 | 12 mm |
|----|-------|
| 16 | 16 mm |
| 20 | 20 mm |
| 25 | 25 mm |
| 32 | 32 mm |
| 40 | 40 mm |

3 Port thread type

| _ | | |
|------|----------|------------|
| Nil | M5 x 0.8 | ø12, ø16 |
| IVII | Rc | |
| TN | NPT | ø20 to ø40 |
| TF | G | |

4 Cylinder stroke [mm]
Refer to "Standard Strokes" on page 2.

6 Auto switch

| Nil | Without auto switch (Built-in magnet) |
|-----|---------------------------------------|

* For applicable auto switches, refer to the table below.

6 Number of auto switches

| Nil | 2 |
|-----|---|
| S | 1 |
| n | n |

Applicable Auto Switches / Refer to the Web Catalog for further information on auto switches.

| | | F1 | ight | \A#: : | L | oad volta | ge | Auto swit | tch model | Lead | wire | engtl | h [m] | D | A | |
|---------------------|--|---------------------|-----------------|----------------------------|-----------|-----------|---------------|---------------|-----------|--------------|----------|----------|----------|---------------------|---------------|---------------|
| Туре | Special function | Electrical entry | Indicator light | Wiring (Output) | D | OC . | AC | Perpendicular | In-line | 0.5 (Nil) | 1 (M) | 3 (L) | 5 (Z) | Pre-wired connector | Appli | cable ad |
| | | | | 3-wire (NPN) | | 5 V, 12 V | | M9NV | M9N | • | | • | 0 | 0 | IC | |
| 동 | _ | | | 3-wire (PNP) | | 5 V, 12 V | | M9PV | M9P | • | • | • | 0 | 0 | circuit | |
| switch | | | | 2-wire 3-wire (NPN) | | 12 V |] | M9BV | M9B | | | | 0 | 0 | _ | |
| S | D: | | | | 5 V, 12 V | | M9NWV | M9NW | • | • | • | 0 | 0 | IC | | |
| auto | Diagnostic indication (2-color indicator) | | | 3-wire (PNP) | | 5 V, 12 V | | M9PWV | M9PW | | • | • | 0 | 0 | circuit | <u>.</u> |
| | (2-color indicator) | Grommet | Yes | s 2-wire | 24 V | 12 V |] — | M9BWV | M9BW | • | | • | 0 | 0 | _ | Relay, PLC |
| state | | | | 3-wire (NPN) | | E V 10 V | | M9NAV*1 | M9NA*1 | 0 | 0 | • | 0 | 0 | IC | 1 20 |
| st | Water resistant (2-color indicator) | | | 3-wire (PNP) | | 5 V, 12 V | | M9PAV*1 | M9PA*1 | 0 | 0 | • | 0 | 0 | circuit | |
| Solid | (2-color indicator) | | | 2-wire | | 12 V | | M9BAV*1 | M9BA*1 | 0 | 0 | | 0 | 0 | | |
| | Magnetic field resistant (2-color indicator) | | | 2-wire (Non-polar) | | _ | | _ | P3DWA*2 | • | - | • | • | 0 | _ | |
| Reed auto switch | | Grommet | Yes | 3-wire (NPN equivalent) | _ | 5 V | _ | A96V | A96 | • | _ | • | _ | _ | IC circuit | _ |
| šed | _ | Gronnet | .50 | 2-wire | 24 V | 12 V | 100 V | A93V*3 | A93 | | | • | | _ | _ | Relay, |
| ~ " | | | No | 2-WIIE | 24 V | 12 V | 100 V or less | A90V | A90 | | 1- | • | _ | _ | IC circuit | PLC |

- *1 Water-resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance.

 A water-resistant type cylinder is recommended for use in an environment which requires water resistance.
- *2 The D-P3DWA□ type is only available in sizes ø25 to ø40.
- *3 The 1 m lead wire is only applicable to the D-A93.
- * Lead wire length symbols: 0.5 m-----Nil (Example) M9NW
 - 1 m······ M (Example) M9NWM
 - 5 m····· Z (Example) M9NWZ
 - 3 m····· L (Example) M9NWL
- * Solid state auto switches marked with a "O" are produced upon receipt of order.
- * Since there are applicable auto switches other than those listed above, refer to the Web Catalog for details.
- * For details on auto switches with pre-wired connectors, refer to the Web Catalog.

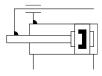
However, please contact SMC for water-resistant products of ø12 and ø16.

- * Auto switches are shipped together with the product but do not come assembled.
- * The installation of auto switches is equivalent to that for the MGP Compact Guide Cylinder series. For details, refer to the Web Catalog.





Symbol Rubber bumper



The mounting pitch and shape of this product with auto switch are the same as those of the Compact Guide Cylinder MGP series with auto switch.

For details, refer to the Web Catalog.

- Auto Switch Proper Mounting Position (Detection at stroke end) and Mounting Height
- \cdot Min. Stroke for Auto Switch Mounting
- · Operating Range
- · Auto Switch Mounting Brackets/Part Nos.

⚠ Precautions

Refer to pages 5 and 6 before I handling the products.

Specifications

| Bore size [mm] | 12 | 16 | 20 | 25 | 32 | 40 | | | | | | | |
|--------------------------------|-------------------------|-----|-----------|-------------|------|----|--|--|--|--|--|--|--|
| Action | | | Double | acting | | | | | | | | | |
| Fluid | Air | | | | | | | | | | | | |
| Proof pressure | 1.5 MPa | | | | | | | | | | | | |
| Max. operating pressure | 1.0 MPa | | | | | | | | | | | | |
| Min. operating pressure | 0.12 MPa 0.1 MPa | | | | | | | | | | | | |
| Ambient and fluid temperatures | | -1 | 0 to 60°C | (No freezir | ng) | | | | | | | | |
| Piston speed | | | 50 to 50 | 00 mm/s | | | | | | | | | |
| Cushion | | Rub | ber bumpe | r on both e | ends | | | | | | | | |
| Lubrication | Not required (Non-lube) | | | | | | | | | | | | |
| Stroke length tolerance | | | +1.5 0 | mm | | | | | | | | | |

^{*} Max. speed with no load. Depending on the operating conditions, the piston speed may not be satisfied. Make a model selection, considering a load according to the **Web Catalog**.

Standard Strokes

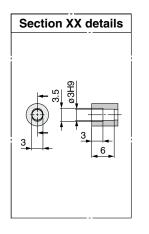
| | [mm] |
|-----------|---|
| Bore size | Standard stroke |
| 12, 16 | 10, 20, 30, 40, 50, 75, 100, 125, 150 |
| 20, 25 | 20, 30, 40, 50, 75, 100, 125, 150, 175, 200 |
| 32, 40 | 25, 50, 75, 100, 125, 150, 175, 200 |

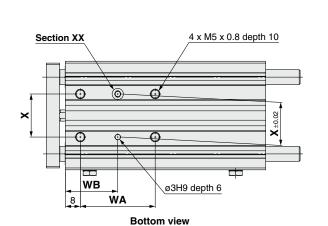
The allowable rotational torque of the plate, non-rotating accuracy of the plate, theoretical output, and weight are equivalent to those of the Compact Guide Cylinder MGP series. For details, refer to the **Web Catalog**.

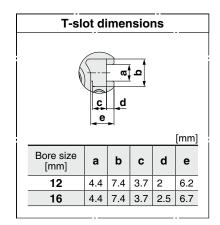


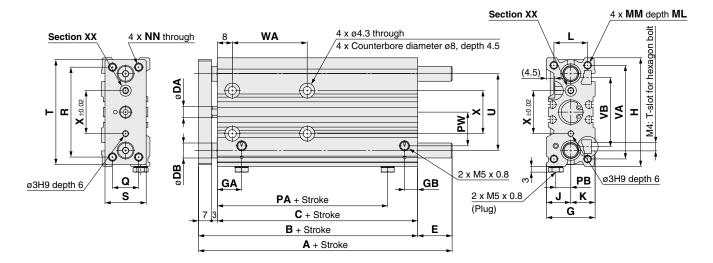
High Durability Series MGP-XB24

MGPM: Ø12, Ø16





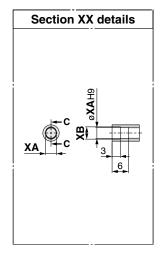


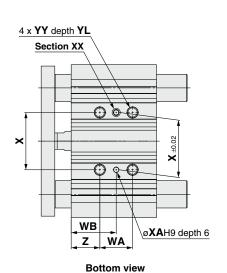


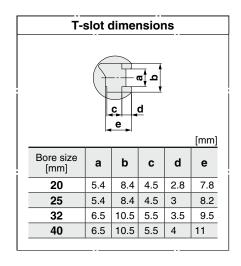
| | | | | | | | | | | | | | | | | | | | | | [mm] |
|-----------|-------|-------------------------------|---------|-------|--------------|---------------|------------|----|-----|----|-----------------|-------|-------|-----------|------|----------|-------------|---------------|----|------|--------|
| Bore size | Star | | stroke | | | Α | | В | С | DA | DB | | | Е | | | G | GA | GB | Н | J |
| [mm] | | [mm |] | 10 to | 50 st | 75, 100 st | 125, 150 s | " | | רם | 00 | 10 to | 50 st | 75, 10 | 0 st | 125, 150 | st | αл | ab | '' | Ŭ |
| 12 | 10, 2 | 0, 30, | 40, 50, | 42 | 42 60.5 82.5 | | | 42 | 32 | 6 | 8 | C |) | 18. | 5 | 40.5 | 26 | 13 | 7 | 58 | 13 |
| 16 | 75, 1 | 5, 100, 125, 150 46 64.5 92.5 | | | | 46 | 36 | 8 | 10 | C |) | 18. | 5 | 46.5 | 30 | 13.5 | 7.5 | 64 | 15 | | |
| | | | | | | | | | | _ | | | _ | | | | | | | | |
| Bore size | V | | М | | ML | NINI | DΛ | РВ | PW | Q | Q R S T U VA VB | | | \ | WA | | | | | | |
| [mm] | | _ | IVII | VI | IVIL | NN PA | | FD | FVV | Q | n | 3 | • | I O VA VB | | ۷ | 10 to 30 st | o 30 st 40 to | | 125, | 150 st |
| 12 | 13 | 18 | M4 x | 0.7 | 10 | M4 x 0. | 7 16 | 8 | 18 | 14 | 48 | 22 | 56 | 41 | 50 | 37 | 20 | | 40 | 1 | 10 |
| 16 | 15 | 22 | M5 x | 0.8 | 12 | M5 x 0.8 17.5 | | 10 | 19 | 16 | 54 | 25 | 62 | 46 56 38 | | 24 | 44 | | 1 | 10 | |

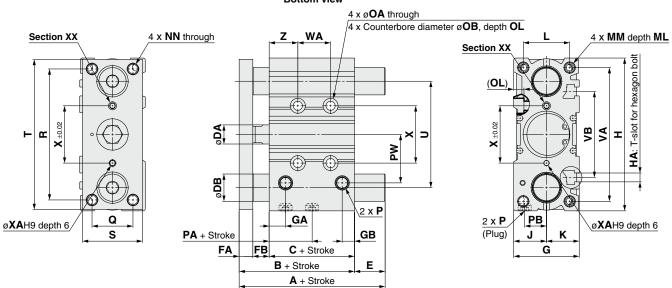
| Bore size | WB | | | | | | | | | | |
|-----------|-------------|--------------|-------------|----|--|--|--|--|--|--|--|
| [mm] | 10 to 30 st | 40 to 100 st | 125, 150 st | ^ | | | | | | | |
| 12 | 18 | 28 | 63 | 23 | | | | | | | |
| 16 | 20 | 30 | 63 | 24 | | | | | | | |

мдрм: Ø20 to Ø40









| Bore size [mm] Standard stroke [mm] | | | | | | | | | | | | | | | | | | | | [mm] |
|---|----|--------------------------|------|-------|------|------|----|----|-------------|--------------|----|----|----|------|----|-----|----|----|----|------|
| 25 125, 150, 175, 200 53.5 83.5 53.5 37.5 10 16 0 30 9 7 42 11.5 10 93 M5 21 21 30 | | | | | | С | DA | DB | Up to 50 st | 75 to 200 st | FA | FB | G | GA | GB | н | НА | J | K | L |
| | 20 | 20, 30, 40, 50, 75, 100, | 53 | 83 | 53 | 37 | 10 | 12 | 0 | 30 | 8 | 8 | 36 | 11.5 | 9 | 83 | M5 | 18 | 18 | 24 |
| 32 25 50 75 100 82 100 5 59 5 37 5 14 20 22 5 41 10 12 48 12 9 112 M6 24 24 34 | 25 | 125, 150, 175, 200 | 53.5 | 83.5 | 53.5 | 37.5 | 10 | 16 | 0 | 30 | 9 | 7 | 42 | 11.5 | 10 | 93 | M5 | 21 | 21 | 30 |
| 25, 50, 75, 100, | 32 | 25, 50, 75, 100, | 82 | 100.5 | 59.5 | 37.5 | 14 | 20 | 22.5 | 41 | 10 | 12 | 48 | 12 | 9 | 112 | M6 | 24 | 24 | 34 |
| 40 125, 150, 175, 200 82 100.5 66 44 16 20 16 34.5 10 12 54 15 12 120 M6 27 27 40 | 40 | 125, 150, 175, 200 | 82 | 100.5 | 66 | 44 | 16 | 20 | 16 | 34.5 | 10 | 12 | 54 | 15 | 12 | 120 | M6 | 27 | 27 | 40 |

| Bore size | ММ | мь | NN | ОА | ОВ | OL | | Р | | PA | РВ | PW | Q | R | s | _ | U | VA | VВ |
|-----------|-----------|------|-----------|-----|-----|-----|-------|--------|------|------|------|------|----|-----|----|-----|----|-----|----|
| [mm] | IVIIVI | IVIL | ININ | UA | UB | OL | Nil | TN | TF | PA | PB | PVV | Q | n | Э | ' | U | VA | VB |
| 20 | M5 x 0.8 | 13 | M5 x 0.8 | 5.4 | 9.5 | 5.5 | Rc1/8 | NPT1/8 | G1/8 | 13.5 | 10.5 | 25 | 18 | 70 | 30 | 81 | 54 | 72 | 44 |
| 25 | M6 x 1 | 15 | M6 x 1 | 5.4 | 9.5 | 5.5 | Rc1/8 | NPT1/8 | G1/8 | 12.5 | 13.5 | 30 | 26 | 78 | 38 | 91 | 64 | 82 | 50 |
| 32 | M8 x 1.25 | 20 | M8 x 1.25 | 6.7 | 11 | 7.5 | Rc1/8 | NPT1/8 | G1/8 | 6.5 | 16 | 35.5 | 30 | 96 | 44 | 110 | 78 | 98 | 63 |
| 40 | M8 x 1.25 | 20 | M8 x 1.25 | 6.7 | 11 | 7.5 | Rc1/8 | NPT1/8 | G1/8 | 13 | 18 | 39.5 | 30 | 104 | 44 | 118 | 86 | 106 | 72 |

| Bore size | WA | | | | WB | | | | х | ХА | хв | YY | YL | 7 | | |
|-----------|-----------|--------------|-------|--------------|---------------|-----------|--------------|-------|--------------|---------------|----|----|-----|-----------|-----|----|
| [mm] | 20, 30 st | 40 to 100 st | 25 st | 50 to 100 st | 125 to 200 st | 20, 30 st | 40 to 100 st | 25 st | 50 to 100 st | 125 to 200 st | ^ | ^A | ^6 | 11 | 1 L | |
| 20 | 24 | 44 | _ | _ | 120 | 29 | 39 | _ | _ | 77 | 28 | 3 | 3.5 | M6 x 1 | 12 | 17 |
| 25 | 24 | 44 | _ | _ | 120 | 29 | 39 | _ | _ | 77 | 34 | 4 | 4.5 | M6 x 1 | 12 | 17 |
| 32 | _ | _ | 24 | 48 | 124 | _ | _ | 33 | 45 | 83 | 42 | 4 | 4.5 | M8 x 1.25 | 16 | 21 |
| 40 | _ | _ | 24 | 48 | 124 | _ | _ | 34 | 46 | 84 | 50 | 4 | 4.5 | M8 x 1.25 | 16 | 22 |



MGP-XB24 Specific Product Precautions 1

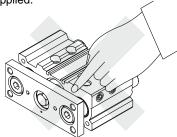
Be sure to read this before handling the products. Refer to the back cover for safety instructions. For actuator and auto switch precautions, refer to the "Handling Precautions for SMC Products," the "Operation Manual," and compact guide cylinder MGP series specific product precautions on the SMC website.

Mounting

⚠ Warning

1. Never place your hands or fingers between the plate and the body.

Be very careful to prevent your hands or fingers from getting caught in the gap between the cylinder body and the plate when air is applied.



∧ Caution

1. Use cylinders within the piston speed range.

An orifice is set for this cylinder, but the piston speed may exceed the operating range if the speed controller is not used. If the cylinder is used outside the operating speed range, it may cause damage to the cylinder and shorten the service life. Adjust the speed by installing the speed controller and use the cylinder within the limited range.

2. Pay attention to the operating speed when the product is mounted vertically.

When using the product in the vertical direction, if the load factor is large, the operating speed can be faster than the control speed of the speed controller (i.e. quick extension). In such cases, it is recommended to use a dual speed controller.

- When used near the lower limit of the operating piston speed, stick-slip may occur depending on the operating conditions. To counter this, it is recommended to use an operating pressure with margin.
- 4. Do not use the product if an air leaks occurs.

If an air leak does occurs, this may result in the speed being increased beyond the speed controller's adjustment capability, which may further lead to the products speed becoming impossible to control.

If the speed is increased excessively, internal components and guide sections may be damaged.

Do not scratch or gouge the sliding portion of the piston rod and the guide rod.

Damaged seals, etc., will result in leakage or malfunction.

6. Do not dent or scratch the mounting surface of the body and the plate.

This may cause a decrease in the flatness of the mounting surface, which will cause an increase in sliding resistance.

7. Make sure that the cylinder mounting surface has a flatness of 0.05 mm or less.

If the flatness of the workpieces and brackets mounted on the plate is not appropriate, sliding resistance may increase. If it is difficult to maintain a flatness of 0.05 mm or less, put a thin shim ring (provided by the customer) between the plate and the workpiece mounting surface to prevent the sliding resistance from increasing.

⚠ Caution

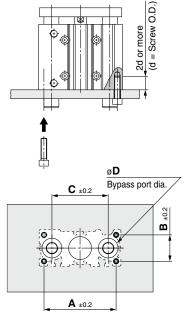
8. Be sure that the piston rods are retracted when mounting workpieces on the plate.

If workpieces are mounted on the plate when the piston rods are extended, it can lead to distortion of the guide unit, resulting in a malfunction.

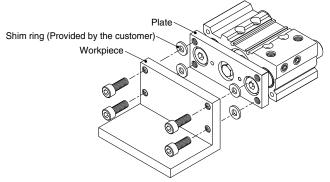
9. Bottom of cylinder

The guide rods protrude from the bottom of the cylinder at the end of the retracting stroke, and therefore, in cases where the cylinder is to be bottom mounted, it is necessary to provide bypass ports in the mounting surface for the guide rods, as well as holes for the hexagon socket head cap screws which are used for mounting.

Moreover, in applications where impact occurs from a stopper, etc., the mounting screws should be inserted to a depth of 2d or more.



| Bore size | Α | В | С | D [r | mm] | Hexagon socket | |
|-----------|------|------|------|-------------|------|----------------|--|
| [mm] | [mm] | [mm] | [mm] | MGPM | MGPL | head cap screw | |
| 12 | 50 | 18 | 41 | 10 | 8 | M4 x 0.7 | |
| 16 | 56 | 22 | 46 | 12 | 10 | M5 x 0.8 | |
| 20 | 72 | 24 | 54 | 14 | 12 | M5 x 0.8 | |
| 25 | 82 | 30 | 64 | 18 | 15 | M6 x 1.0 | |
| 32 | 98 | 34 | 78 | 22 | 18 | M8 x 1.25 | |
| 40 | 106 | 40 | 86 | 22 | 18 | M8 x 1.25 | |







MGP-XB24 Specific Product Precautions 2

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For actuator and auto switch precautions, refer to the "Handling Precautions for SMC Products," the "Operation Manual," and compact guide cylinder MGP series specific product precautions on the SMC website.

Piping

∧ Caution

Depending on the operating condition, change the position of plugs for the piping port.

1. M5

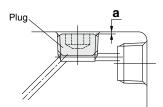
After tightening by hand, tighten an additional 1/6 to 1/4 turn with a tightening tool.

2. Tapered thread for Rc port (MGP) and NPT port (MGP□□TN)

Tighten with proper tightening torque below. Use sealing tape on the plug and make sure that the sealing tape does not protrude below the plug. With regard to the sunk dimension of a plug ("a" dimension in the drawing), use the stipulated figures as a guide and confirm the air leakage before operation.

* If plugs on the top mounting port are tightened with more than the proper tightening torque, they will be screwed too deeply and the air passage will be constricted, resulting in limited cylinder speed.

| Connection thread (plug) size | Proper tightening torque [N·m] | a dimension | | | | |
|-------------------------------|--------------------------------|----------------|--|--|--|--|
| 1/8 | 7 to 9 | 0.5 mm or less | | | | |



3. Parallel pipe thread for G port (MGP□□TF)

Screw in the plug to the surface of the body ("a" dimension in the drawing) by checking visually instead of using the tightening torque shown in the table.

Lubrication

∧ Caution

1. This product should be used without lubrication.

The use of lubrication can cause a reduction in the products lifetime.

Durability of The Cylinder

The durability of a longer life cylinder has been evaluated by comparison with the existing cylinders under SMC's test conditions.

The durability of a cylinder depends on the customer's operating conditions and operating environment.

Therefore, durability of four times or longer will not be guaranteed under all conditions.



⚠ 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.

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

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

Danger indicates a hazard with a high level of risk which, ⚠ Danger: Danger indicates a nazaru wiun a nigin level on the first avoided, will result in death or serious injury.

*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.

⚠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 catalog 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 catalog.
 - 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.

Limited warranty and Disclaimer/ **Compliance Requirements**

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

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 after the product is delivered, whichever is first.*2)
 - 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 catalog 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 the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.

SMC Corporation