

# Pneumatic Pressure Switch Series IS3000

Can be used for micro load, around 10 mA e.g. relays, programmable controllers, etc.

## Easy electrical wiring

Wide space for wiring. Fixed wiring possible with G 1/2 connector.

## Wide calibration range

0.1 to 0.7 MPa

## High frequency operation and long service life due to piston construction

High Frequency: 1 cycle/sec

Long service life: 10 million cycles

## With indicator light (Option)



IS3100  
(Gasket piping)

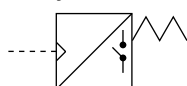
IS3000-02  
(Rc 1/4 thread)



IS3110  
(Gasket piping)

IS3010-02  
(Rc 1/4 thread)

JIS Symbol



## Model

Model	Piping method	Micro switch type	Min. applicable load
IS3000-02	Rc 1/4 thread	Standard	5 VDC 160 mA
IS3100	Gasket piping		
IS3010-02	Rc 1/4 thread	Micro load	5 VDC 1 mA
IS3110	Gasket piping		

## Specifications

Fluid	Air/Inert gas
Proof pressure	1.0 MPa
Max. operating pressure	0.8 MPa
Pressure adjustment range	0.1 to 0.7 MPa
Ambient and fluid temperature	-5 to 60°C (No freezing)
Contacts	1ab
Error of scale	±0.1 MPa
Hysteresis	0.05 MPa or less
Repeatability	±0.05 MPa
Weight	0.15 kg

## Micro Switch Ratings

Model	IS3000						IS3110			
	Non inductive (A)				Inductive load (A)		Non inductive (A)			
	Load resistance		Light load		Inductive load		Motor load			
Rated voltage (V)	Circuit		N.C.	N.O.	N.C.	N.O.	N.C.	N.O.	Load resistance	
	125 AC	5	1.5	0.7	3	2.5	1.3	0.1		
250 AC	3	1	0.5	2	1.5	0.8	—			
30 DC	4	2		3	3		0.1			
125 DC	0.4		0.05		0.4		0.05		—	

Insulation resistance: 100 MΩ or more at 500 VDC by megameter

Voltage resistance: 1500 VAC, 50/60Hz for 1 min. (When using switch with neon light: 1000 VAC for 1 min.)

## How to Order

IS3 0 0 0 — 02 L1

### Piping method

0	Rc 1/4 thread
1	Gasket piping

### Micro switch load type

0	Standard
1	Micro load

### Indicator light

Nil	None
L1	With neon light/110 VAC
L2	With neon light/220 VAC
L5	LED/24 VDC



Note) Micro load type: Not available "L2" option.

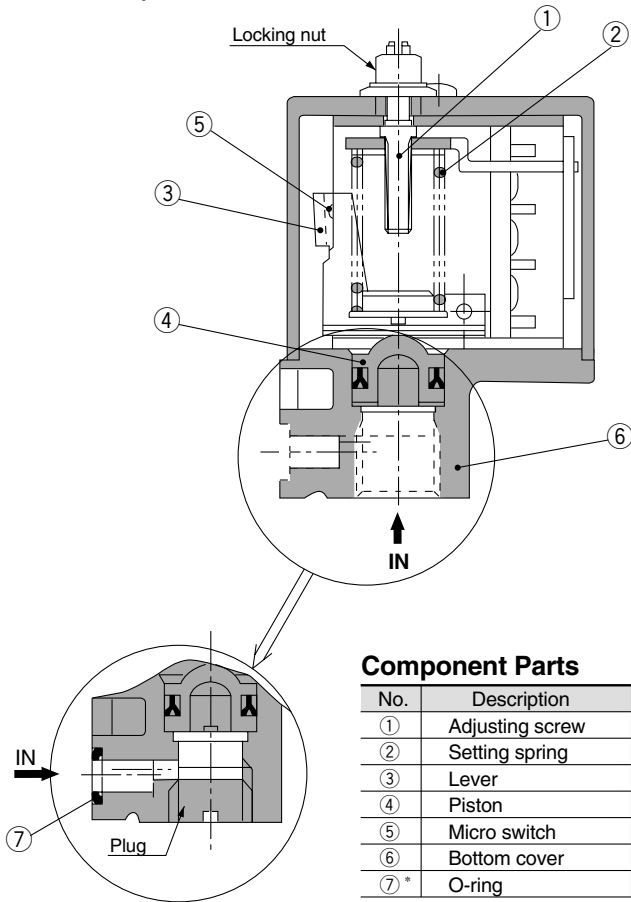
### Port size

Nil	With gasket
02	Rc 1/4
N02	NPT 1/4

# Series IS3000

## Construction

IS3000-02/3010-02  
(Rc 1/4 thread)

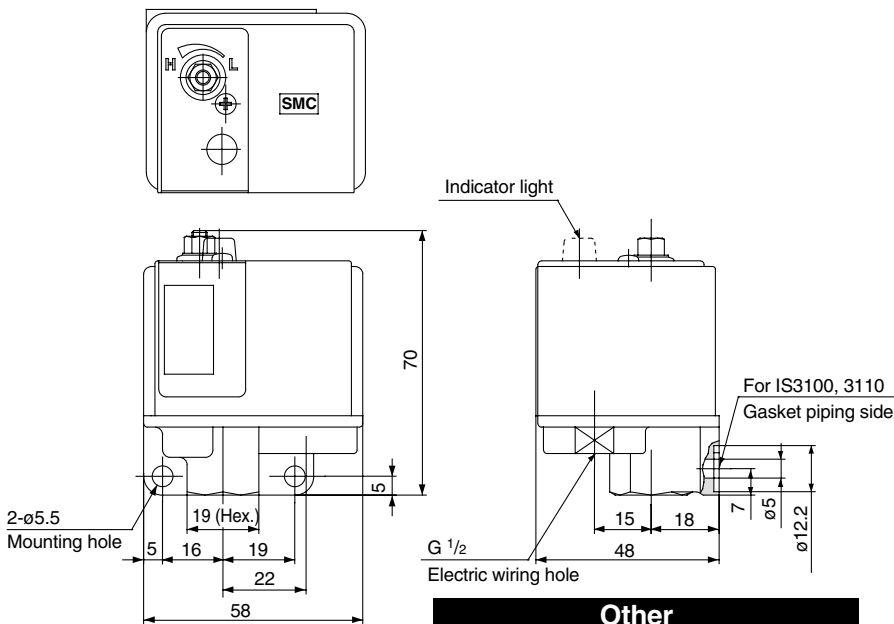


### Component Parts

No.	Description	Material
①	Adjusting screw	Rolled steel
②	Setting spring	Rolled steel
③	Lever	Rolled steel
④	Piston	Polyacetal
⑤	Micro switch	—
⑥	Bottom cover	Aluminum die-cast
⑦*	O-ring	NBR

\* Only for gasket mounting style

## Dimensions



### Other

#### ⚠ Caution

- Spare part is LIGHT ASSEMBLY only. If it is necessary to repair, please contact SMC.  
Light Assembly  
For 110 VAC: 1530118-1 220 VAC: 1530118-2  
24 VDC: 1530118-5  
Able to convert into L1, L2, L5 by changing each light assembly.

## ⚠ Precautions

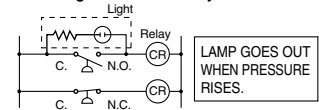
Be sure to read before handling. Refer to pages 16-14-3 to 16-14-4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to pages 16-1-11 to 16-1-13 for Precautions on every series.

## Wiring

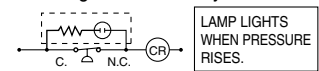
### ⚠ Warning

- Light assembly for 24 VDC has 2 terminals and polarity. One is "+" for red load wire and the other is "-" for black load wire. Light will not light up if wired incorrectly.
- Light ass'y for 24 VDC has 3 mA of current leakage. Connect the LED directly to the power supply if the input of the PLC sees the switch as closed at all times due to leakage.

Ex. 1) When using contact "a" only or "a&b" contacts



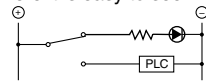
Ex. 2) When using contact "b" only



### ⚠ Caution

- In the case of using a switch with indicator light, wire the indicator light per the following:
- Please put the enclosed seal of "LAMP LIGHTS WHEN PRESSURE RISES." or "LAMP GOES OUT WHEN PRESSURE RISES." on the equipment where it is easy to see.

Ex. 3)



- Thread using for the terminal is M3.

## Mounting/Piping

### ⚠ Caution

- Allow the space required for maintenance. Otherwise, maintenance or pressure adjustment cannot be made, since the adjusting screw is on the top of the body.
- Mounting is possible in either horizontal or vertical orientations.

## Pressure Setting

### ⚠ Caution

- Turn the adjusting screw on the cover to set the pressure with a flat head screwdriver. Fix the screw with locking nut after adjusting. Hysteresis is a fixed value. Increase the setting value by turning to "+" (H) side. Decrease the setting value by turning to "-" (L) side.
- Use a flat head screwdriver to set the pressure. Then, lock it in place with the lock nut. Otherwise the set pressure will change.
- The hysteresis (the ON-OFF range) is fixed.
- Set pressure scale is the value when pressure increases.

## Operating Environment


### ⚠ Warning


- Do not use in an environment, where water or oil is splashed. Because it is the open type construction. If water or oil were to make an ingress, the electrical circuit would be corroded and result in a malfunction or damage.
- Operating fluids are either air or inert gas exclusively. Never use liquids.
- Never use in an environment where flammable fluid or gas is used.  
Use of this product near flammable materials could cause an explosive situation. This product is not explosion-proof.




# Safety Instructions

These safety instructions are intended to prevent a hazardous situation and/or equipment damage. These instructions indicate the level of potential hazard by labels of "Caution", "Warning" or "Danger". To ensure safety, be sure to observe ISO 4414 <sup>Note 1)</sup>, JIS B 8370 <sup>Note 2)</sup> and other safety practices.

 **Caution** : Operator error could result in injury or equipment damage.

 **Warning** : Operator error could result in serious injury or loss of life.

 **Danger** : In extreme conditions, there is a possible result of serious injury or loss of life.

Note 1) ISO 4414: Pneumatic fluid power--General rules relating to systems.

Note 2) JIS B 8370: General Rules for Pneumatic Equipment

## Warning

### **1. The compatibility of pneumatic equipment is the responsibility of the person who designs the pneumatic system or decides its specifications.**

Since the products specified here are used in various operating conditions, their compatibility for the specific pneumatic system must be based on specifications or after analysis and/or tests to meet your specific requirements. The expected performance and safety assurance will be the responsibility of the person who has determined the compatibility of the system. This person should continuously review the suitability of all items specified, referring to the latest catalog information with a view to giving due consideration to any possibility of equipment failure when configuring a system.

### **2. Only trained personnel should operate pneumatically operated machinery and equipment.**

Compressed air can be dangerous if an operator is unfamiliar with it. Assembly, handling or repair of pneumatic systems should be performed by trained and experienced operators.

### **3. Do not service machinery/equipment or attempt to remove components until safety is confirmed.**

1. Inspection and maintenance of machinery/equipment should only be performed once measures to prevent falling or runaway of the driver objects have been confirmed.
2. When equipment is to be removed, confirm the safety process as mentioned above. Cut the supply pressure for this equipment and exhaust all residual compressed air in the system.
3. Before machinery/equipment is restarted, take measures to prevent shooting-out of cylinder piston rod, etc.

### **4. Contact SMC if the product is to be used in any of the following conditions:**

1. Conditions and environments beyond the given specifications, or if product is used outdoors.
2. Installation on equipment in conjunction with atomic energy, railway, air navigation, vehicles, medical equipment, food and beverages, recreation equipment, emergency stop circuits, clutch and brake circuits in press applications, or safety equipment.
3. An application which has the possibility of having negative effects on people, property, or animals, requiring special safety analysis.



# Common Precautions

Be sure to read before handling.

For detailed precautions on every series, refer to main text.

## Selection

### Warning

#### 1. Confirm the specifications.

Products represented in this catalog are designed for use in compressed air applications only (including vacuum), unless otherwise indicated.

Do not use the product outside their design parameters.

Please contact SMC when using the products in applications other than compressed air (including vacuum).

## Mounting

### Warning

#### 1. Instruction manual

Install the products and operate them only after reading the instruction manual carefully and understanding its contents. Also keep the manual where it can be referred to as necessary.

#### 2. Securing the space for maintenance

When installing the products, please allow access for maintenance.

#### 3. Tightening torque

When installing the products, please follow the listed torque specifications.

## Piping

### Caution

#### 1. Before piping

Make sure that all debris, cutting oil, dust, etc., are removed from the piping.

#### 2. Wrapping of pipe tape

When screwing piping or fittings into ports, ensure that chips from the pipe threads or sealing material do not get inside the piping. Also, when the pipe tape is used, leave 1.5 to 2 thread ridges exposed at the end of the threads.

## Air Supply

### Warning

#### 1. Operating fluid

Please consult with SMC when using the product in applications other than compressed air (including vacuum).

Regarding products for general fluid, please ask SMC about applicable fluids.

#### 2. Install an air dryer, aftercooler, etc.

Excessive condensate in a compressed air system may cause valves and other pneumatic equipment to malfunction.

Installation of an air dryer, after cooler etc. is recommended.

#### 3. Drain flushing

If condensate in the drain bowl is not emptied on a regular basis, the bowl will over flow and allow the condensate to enter the compressed air lines.

If the drain bowl is difficult to check and remove, it is recommended that a drain bowl with the auto-drain option be installed.

For compressed air quality, refer to "Air Preparation Equipment" catalog.

#### 4. Use clean air

If the compressed air supply is contaminated with chemicals, synthetic materials, corrosive gas, etc., it may lead to break down or malfunction.

## Operating Environment

### Warning

1. Do not use in environments where the product is directly exposed to corrosive gases, chemicals, salt water, water or steam.

2. Do not expose the product to direct sunlight for an extended period of time.

3. Do not use in a place subject to heavy vibrations and/or shocks.

4. Do not mount the product in locations where it is exposed to radiant heat.

## Maintenance

### Warning

1. Maintenance procedures are outlined in the operation manual.

Not following proper procedures could cause the product to malfunction and could lead to damage to the equipment or machine.

#### 2. Maintenance work

If handled improperly, compressed air can be dangerous.

Assembly, handling and repair of pneumatic systems should be performed by qualified personnel only.

#### 3. Drain flushing

Remove drainage from air filters regularly. (Refer to the specifications.)

#### 4. Shut-down before maintenance

Before attempting any kind of maintenance make sure the supply pressure is shut of and all residual air pressure is released from the system to be worked on.

#### 5. Start-up after maintenance and inspection

Apply operating pressure and power to the equipment and check for proper operation and possible air leaks. If operation is abnormal, please verify product set-up parameters.

#### 6. Do not make any modifications to be product.

Do not take the product apart.

# Quality Assurance Information (ISO 9001, ISO 14001)

## Reliable quality of products in the global market

To enable our customers throughout the world to use our products with even greater confidence, SMC has obtained certification for international standards “ISO 9001” and “ISO 14001”, and created a complete structure for quality assurance and environmental controls. SMC products pursue to meet its customers’ expectations while also considering company’s contribution in society.

### Quality management system ISO 9001

This is an international standard for quality control and quality assurance. SMC has obtained a large number of certifications in Japan and overseas, providing assurance to our customers throughout the world.



### Environmental management system ISO 14001

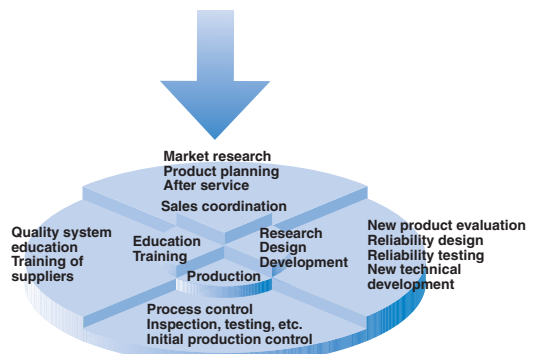
This is an international standard related to environmental management systems and environmental inspections. While promoting environmentally friendly automation technology, SMC is also making diligent efforts to preserve the environment.



## SMC’s quality control system



### Quality policies



### Quality control activities

# SMC Product Conforming to Inter

SMC products complying with EN/ISO, CSA/UL standards are supporting



The CE mark indicates that machines and components meet essential requirements of all the EC Directives applied.

It has been obligatory to apply CE marks indicating conformity with EC Directives when machines and components are exported to the member Nations of the EU.

Once "A manufacturer himself" declares a product to be safe by means of CE marking (declaration of conformity by manufacturer), free distribution inside the member Nations of the EU is permissible.

## ■ CE Mark

SMC provides CE marking to products to which EMC and Low Voltage Directives have been applied, in accordance with CETOP (European hydraulics and pneumatics committee) guide lines.

## ■ As of February 1998, the following 18 countries will be obliged to conform to CE mark legislation

Iceland, Ireland, United Kingdom, Italy, Austria, Netherlands, Greece, Liechtenstein, Sweden, Spain, Denmark, Germany, Norway, Finland, France, Belgium, Portugal, Luxembourg

## ■ EC Directives and Pneumatic Components

### • Machinery Directive

The Machinery Directive contains essential health and safety requirements for machinery, as applied to industrial machines e.g. machine tools, injection molding machines and automatic machines. Pneumatic equipment is not specified in Machinery Directive. However, the use of SMC products that are certified as conforming to EN Standards, allows customers to simplify preparation work of the Technical Construction File required for a Declaration of Conformity.

### • Electromagnetic Compatibility (EMC) Directive

The EMC Directive specifies electromagnetic compatibility. Equipment which may generate electromagnetic interference or whose function may be compromised by electromagnetic interference is required to be immune to electromagnetic affects (EMS/immunity) without emitting excessive electromagnetic affects (EMI/emission).

### • Low Voltage Directive

This directive is applied to products, which operate above 50 VAC to 1000 VAC and 75 VDC to 1500 VDC operating voltage, and require electrical safety measures to be introduced.

### • Simple Pressure Vessels Directive

This directive is applied to welded vessels whose maximum operating pressure (PS) and volume of vessel (V) exceed 50 bar/L. Such vessels require EC type examination and then CE marking.



# national Standards

you to comply with EC directives and CSA/UL standards.



## ■ CSA Standards & UL Standards

UL and CSA standards have been applied in North America (U.S.A. and Canada) symbolizing safety of electric products, and are defined to mainly prevent danger from electric shock or fire, resulting from trouble with electric products. Both UL and CSA standards are acknowledged in North America as the first class certifying body. They have a long experience and ability for issuing product safety certificate. Products approved by CSA or UL standards are accepted in most states and governments beyond question.

Since CSA is a test certifying body as the National Recognized Testing Laboratory (NRTL) within the jurisdiction of Occupational Safety and Health Administration (OSHA), SMC was tested for compliance with CSA Standards and UL Standards at the same time and was approved for compliance with the two Standards. The above CSA NRTL/C logo is described on a product label in order to indicate that the product is approved by CSA and UL Standards.

## ■ TSSA (MCCR) Registration Products

TSSA is the regulation in Ontario State, Canada. The products that the operating pressure is more than 5 psi (0.03 MPa) and the piping size is bigger than 1 inch. fall into the scope of TSSA regulation.

## Products conforming to CE Standard

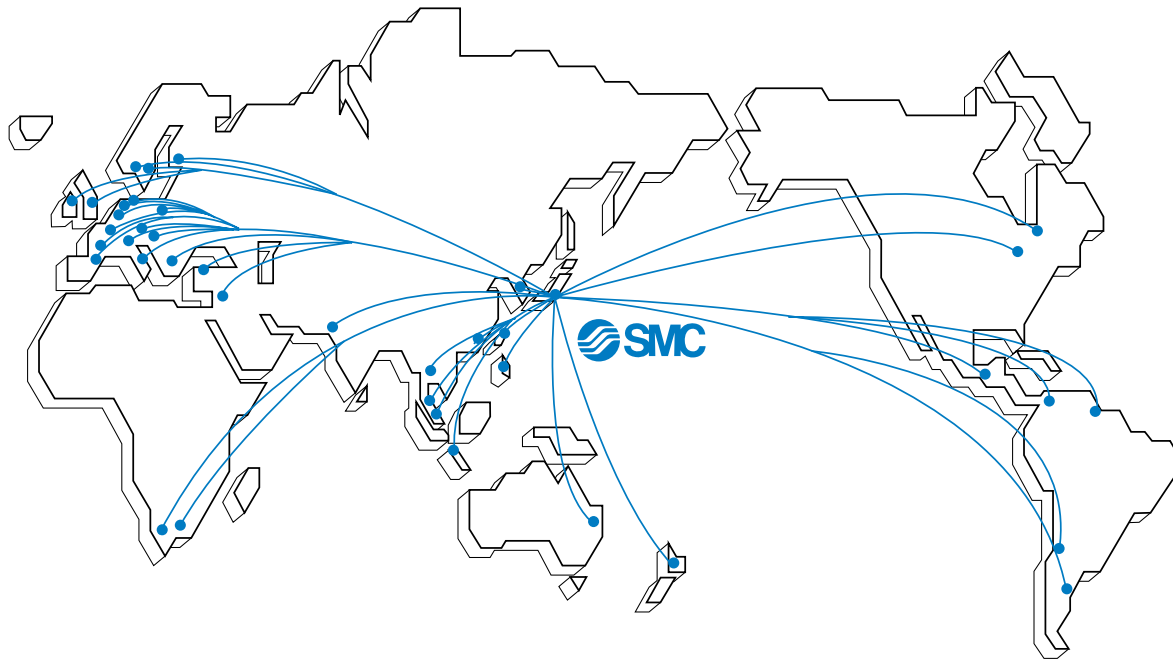


With CE symbol for simple visual recognition

In this catalog each accredited product series is indicated with a CE mark symbol. However, in some cases, every available models may not meet CE compliance. Please visit our web site for the latest selection of available models with CE mark.

<http://www.smcworld.com>

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### U.S.A. **SMC Corporation of America**

3011 North Franklin Road Indianapolis, IN 46226, U.S.A.  
TEL: 317-899-4440 FAX: 317-899-3102

### CANADA **SMC Pneumatics (Canada) Ltd.**

6768 Financial Drive Mississauga, Ontario, L5N 7J6 Canada  
TEL: 905-812-0400 FAX: 905-812-8686

### MEXICO **SMC Corporation (Mexico), S.A. DE C.V.**

Carr. Silao-Trejo K.M. 2.5 S/N, Predio San Jose del Duranzo  
C.P. 36100, Silao, Gto., Mexico  
TEL: 472-72-2-55-00 FAX: 472-72-2-59-44/2-59-46

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Av. La Montaña 1,115 km. 16.5 P. Norte Parque  
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TEL: 011-4555-5762 FAX: 011-4555-5762

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Vincent Avenue, Crownhill, Milton Keynes, MK8 0AN, Buckinghamshire, U.K.  
TEL: 01908-563888 FAX: 01908-561185

### GERMANY **SMC Pneumatik GmbH**

Boschring 13-15 D-63329 Egelsbach, Germany  
TEL: 06103-4020 FAX: 06103-402139

### ITALY **SMC Italia S.p.A.**

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TEL: 02-9271365 FAX: 02-9271365

### FRANCE **SMC Pneumatique S.A.**

1 Boulevard de Strasbourg, Parc Gustave Eiffel, Bussy Saint Georges, F-77600  
Marne La Vallee Cedex 3 France  
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### SWEDEN **SMC Pneumatics Sweden AB**

Ekhagsvägen 29-31, S-141 05 Huddinge, Sweden  
TEL: 08-603-07-00 FAX: 08-603-07-10

### SWITZERLAND **SMC Pneumatik AG**

Dorfstrasse 7, Postfach 117, CH-8484 Weisslingen, Switzerland  
TEL: 052-396-3131 FAX: 052-396-3191

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Girakstrasse 8, A-2100 Korneuburg, Austria  
TEL: 0-2262-6228-0 FAX: 0-2262-62285

### SPAIN **SMC España, S.A.**

Zuazobidea 14 Pol. Ind. Júndiz 01015 Vitoria, Spain  
TEL: 945-184-100 FAX: 945-184-510

### IRELAND **SMC Pneumatics (Ireland) Ltd.**

2002 Citywest Business Campus, Naas Road, Saggart, Co. Dublin, Ireland  
TEL: 01-403-9000 FAX: 01-466-0385

### NETHERLANDS (Associated company) **SMC Pneumatics BV**

De Ruyterkade 120, NL-1011 AB Amsterdam, Netherlands  
TEL: 020-5318888 FAX: 020-5318880

### GREECE (Distributor) **S.Parianopoulos S.A.**

7, Konstantinoupoleos Street 11855 Athens, Greece  
TEL: 01-3426076 FAX: 01-3455578

### DENMARK **SMC Pneumatik A/S**

Knudsminde 4 B DK-8300  
Odder, Denmark  
TEL: 70252900 FAX: 70252901



## Europe

**FINLAND SMC Pneumatics Finland OY**

PL72, Tiistiniityntie 4, SF-02231 ESP00, Finland  
TEL: 09-8595-80 FAX: 09-8595-8595

**NORWAY SMC Pneumatics Norway A/S**

Vollsvæien 13C, Granfoss Næringspark N-1366 LYSAKER, Norway  
TEL: 67-12-90-20 FAX: 67-12-90-21

**BELGIUM (Distributor) SMC Pneumatics N.V./S.A.**

Nijverheidsstraat 20 B-2160 Wommelgem Belgium  
TEL: 03-355-1464 FAX: 03-355-1466

**POLAND SMC Industrial Automation Polska Sp.z.o.o.**

ul. Konstruktorska 11A, PL-02-673 Warszawa, Poland  
TEL: 022-548-5085 FAX: 022-548-5087

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Perpa Tic. Merkezi Kat:11 No.1625 80270 Okmeydani Istanbul, Türkiye  
TEL: 0212-221-1512 FAX: 0212-221-1519

**RUSSIA SMC Pneumatik LLC.**

36/40 Sredny prospect V.O. St. Petersburg 199004, Russia  
TEL: 812-118-5445 FAX: 812-118-5449

**CZECH SMC Industrial Automation CZ s.r.o.**

Hudcova 78a, CZ-61200 Brno, Czech Republic  
TEL: 05-4121-8034 FAX: 05-4121-8034

**HUNGARY SMC Hungary Ipari Automatizálási kft.**

Budafoki ut 107-113 1117 Budapest  
TEL: 01-371-1343 FAX: 01-371-1344

**ROMANIA SMC Romania S.r.l.**

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**SLOVAKIA SMC Priemyselná automatizácia, s.r.o.**

Nova 3, SK-83103 Bratislava  
TEL: 02-4445-6725 FAX: 02-4445-6028

**SLOVENIA SMC Industrijska Avtomatila d.o.o.**

Grajski trg 15, SLO- 8360 Zuzemberk, Slovenia  
TEL: 07388-5240 FAX: 07388-5249

**LATVIA SMC Pneumatics Latvia SIA**

Šmerļa ielā 1-705, Rīga LV-1006  
TEL: 777 94 74 FAX: 777 94 75

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## Oceania/Asia

**AUSTRALIA SMC Pneumatics (Australia) Pty.Ltd.**

14-18 Hudson Avenue Castle Hill NSW 2154, Australia  
TEL: 02-9354-8222 FAX: 02-9894-5719

**NEW ZEALAND SMC Pneumatics (New Zealand) Ltd.**

8C Sylvia Park Road Mt.Wellington Auckland, New Zealand  
TEL: 09-573-7007 FAX: 09-573-7002

**TAIWAN SMC Pneumatics (Taiwan) Co.,Ltd.**

17, Lane 205, Nansan Rd., Sec.2, Luzhu-Hsiang, Taoyuan-Hsien, TAIWAN  
TEL: 03-322-3443 FAX: 03-322-3387

**HONG KONG SMC Pneumatics (Hong Kong) Ltd.**

29/F, Clifford Centre, 778-784 Cheung, Sha Wan Road, Lai Chi Kok, Kowloon, Hong Kong  
TEL: 2744-0121 FAX: 2785-1314

**SINGAPORE SMC Pneumatics (S.E.A.) Pte. Ltd.**

89 Tuas Avenue 1, Jurong Singapore 639520  
TEL: 6861-0888 FAX: 6861-1889

**PHILIPPINES SHOKETSU SMC Corporation**

Unit 201 Common Goal Tower, Madrigal Business Park, Ayala Alabang Muntinlupa, Philippines  
TEL: 02-8090565 FAX: 02-8090586

**MALAYSIA SMC Pneumatics (S.E.A.) Sdn. Bhd.**

Lot 36 Jalan Delima1/1, Subang Hi-Tech Industrial Park, Batu 3 40000 Shah Alam Selangor, Malaysia  
TEL: 03-56350590 FAX: 03-56350602

**SOUTH KOREA SMC Pneumatics Korea Co., Ltd.**

Woolim e-BIZ Center (Room 1008), 170-5, Guro-Dong, Guro-Gu, Seoul, 152-050, South Korea  
TEL: 02-3219-0700 FAX: 02-3219-0702

**CHINA SMC (China) Co., Ltd.**

7 Wan Yuan St. Beijing Economic & Technological Development Zone 100176, China  
TEL: 010-67882111 FAX: 010-67881837

**THAILAND SMC Thailand Ltd.**

134/6 Moo 5, Tiwanon Road, Bangkok, Amphur Muang, Patumthani 12000, Thailand  
TEL: 02-963-7099 FAX: 02-501-2937

**INDIA SMC Pneumatics (India) Pvt. Ltd.**

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Kvutza Geva 18915 Israel  
TEL: 04-653-5960 FAX: 04-653-1445

**SAUDI ARABIA (Distributor) Assaggaff Trading Est.**

P.O. Box 3385 Al-Amir Majed Street, Jeddah-21471, Saudi Arabia  
TEL: 02-6761574 FAX: 02-6708173