

High speed response: 2.5 ms or less

With anti-chattering function

Stable switch output is possible even with sudden

Anti-chattering function

Devices such as large bore cylinders and high-flow vacuum ejectors consume a large volume of air when they operate, and this may cause a momentary drop in the primary pressure. This function prevents such momentary pressure drops from being detected as abnormal pressures by allowing the response time selection to be changed.

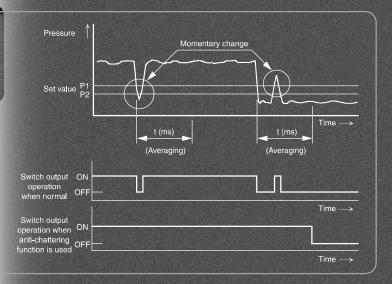
[Selectable response times: t]

2.5 ms (normal), 24 ms, 192 ms or 768 ms

The normal setting is selected when shipped from the factory.

(Operating principle)

The pressure values measured within the user-selected response time are averaged, and switch output (ON/OFF) is determined by comparing this averaged pressure value with the set pressure.



With auto shift function

Allows switch output unaffected by variations in primary pressure.

Auto shift function

Erroneous operation may occur if there is fluctuation in the primary pressure.

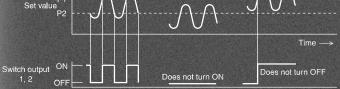
The auto shift function compensates for pressure changes to ensure proper ON/OFF switch response during such fluctuations.

(Operating principle)

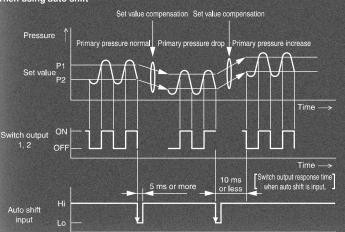
At the point when the primary pressure fluctuates, the set pressure value is compensated by setting the auto shift input (external input) to low (no-voltage) input, using the pressure measured at that point as a standard.

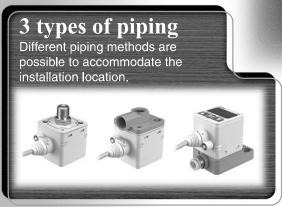
Compound pressure (ZSE40F)

Able to detect suction pressure (vacuum pressure) and release pressure (positive pressure) with a single pressure switch.



When using auto shift





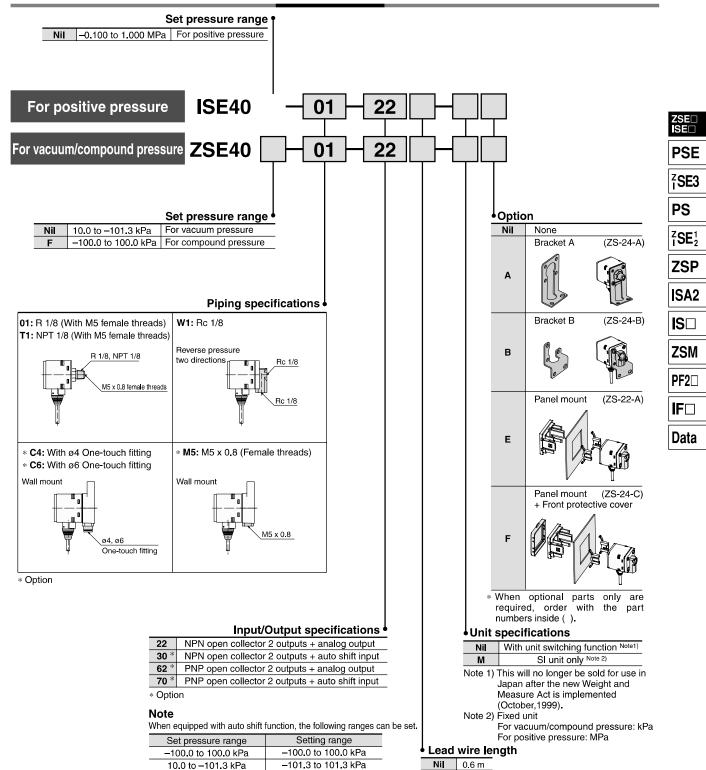
Repeatability ±0.2% F.S. ±1 digit or less

IP65 compatible
Dusttight/Splash proof type

Time →



How to Order





-1.000 to 1.000 MPa

3 m

-0.1 to 1.000 MPa

Specifications

		ZSE40F (Compound pressure)	ZSE40 (Vacuum pressure)	ISE40 (Positive pressure)	
Rated pressure range		-100.0 to 100.0 kPa	0.0 to -101.3 kPa	0.000 to 1.000 MPa	
Operating pressure range/Set pressure range		-100.0 to 100.0 kPa	10.0 to -101.3 kPa	-0.100 to 1.000 MPa	
Withstand pressure		500 kPa		1.5 MPa	
	kPa	0.1		_	
Set pressure resolution Note	MPa	_		0.001	
	kgf/cm ²	0.001		0.01	
	bar bar	0.001		0.01	
	psi	0.02	0.01	0.1	
	mmHg	-		_	
	InHg	0.	.1	_	
Applicable fluid		Air, Non-corrosive/Non-flammable gas			
Power supply voltage		12 to 24 VDC ±10%, Ripple (p-p) 10% or less			
Current consumption		55 mA or less			
Switch output		NPN or PNP 2 outputs Max. load current : 80 mA Max. applied voltage: 30 VDC (With NPN output) Residual voltage : 1 V or less (With 80 mA load current)			
Repeatability		±0.2% F.S. ±1digit or less			
Hysteresis mode		Variable			
Hysteresis Window comparator mode		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Response time (With anti-chattering function)		2.5 ms or less (With anti-chattering function: 24 ms, 192 ms and 768 ms selections)			
Output short circuit protection		Yes			
Display		3 1/2 digit LED display (Sampling cycle: 5 times/sec.)			
Display accuracy		±2% F.S. ±1 digit or less (at ambient temperature of 25 ±3°C)			
Indicator light		Green LED (OUT	Green LED (OUT1: Lights when ON), Red LED (OUT2: Lights when ON)		
Analog output Note 2)		Output voltage: 1 to 5 V ±5% F.S. or less (in rated pressure range) Linearity: ±1% F.S. or less Output impedance: Approx. 1 kΩ	Output voltage: 1 to 5 V ±2.5% F.S Linearity: ±1° Output impedan		
Auto shift input Note 3)		No-voltage input (Reed or solid state), input 5 ms or more			
	Enclosure	IP65			
Environmental resistance	Ambient temperature range	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
	Ambient humidity range	Operating/Stored: 35 to 85% RH (No condensation)			
	Withstand voltage	1000 VAC for 1 min. between lead wires and body			
	Insulation resistance	50 M Ω or more (at 500 VDC) between lead wires and body			
	Vibration resistance	10 to 500 Hz at the smaller of amplitude 1.5 mm or acceleration 98 m/s² (10 G) in X, Y, Z directions for 2 hrs. each (De-energized)			
	Impact resistance	980 m/s ² (100 G) in X, Y, Z directions 3 times each (De-energized)			
Temperature characteristics		In a temperature range of 0 to 50°C, ±2% F.S. or less of pressure measured at 25°C			
Port size		01: R 1/8, M5 x 0.8, T1: NPT1/8, M5 x 0.8, W1: Rc 1/8 C4: With ø4 One-touch fitting, C6: With ø6 One-touch fitting, M5: M5 female threads			
Lead wire		5-wire oil resistant heavy-duty cord (0.15 mm²)			
Weight		01/T1 types approx. 60 g, W1 type approx. 80 g, C4/C6/M5 types approx. 92 g (Each including 0.6 m lead wires)			

Note 1) Equipped with unit switching function

(Types without the unit switching function use SI units (kPa or MPa) only.)

Note 2) For ZSE40 (F)/ISE40-□-²²₆₂ Note 3) For ZSE40 (F)/ISE40-□-³⁰

Note 4) For ZSE40F (compound pressure) with "psi" indication, this is 0.03 to 0.04

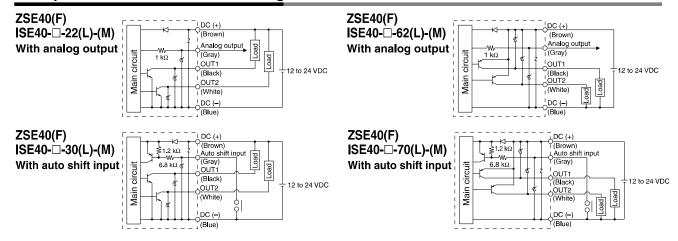
Note 5) For ZSE40F (compound pressure) with "psi" indication, zero clear is in the range of ±0.01 psi.

Note)

When equipped with auto shift function, the following ranges can be set.

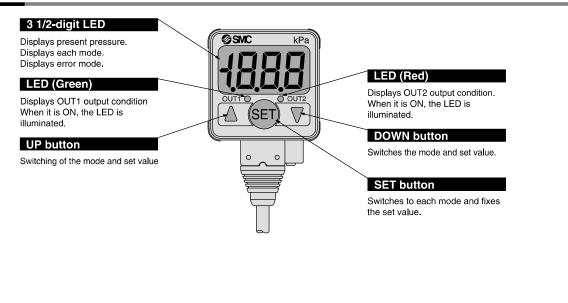
Set pressure range	Setting range	
-100.0 to 100.0 kPa	-100.0 to 100.0 kPa	
10.0 to -101.3 kPa	-101.3 to 101.3 kPa	
- 0.1 to 1.000 MPa	-1.000 to 1.000 MPa	

Example of Internal Circuit and Wiring

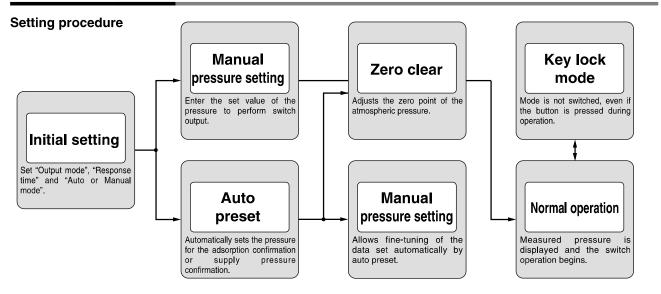




Description



Calibration Procedures



SMC

PSE

ZSE3

PS

ZSE₂

ZSP

ISA₂

IS□

ZSM

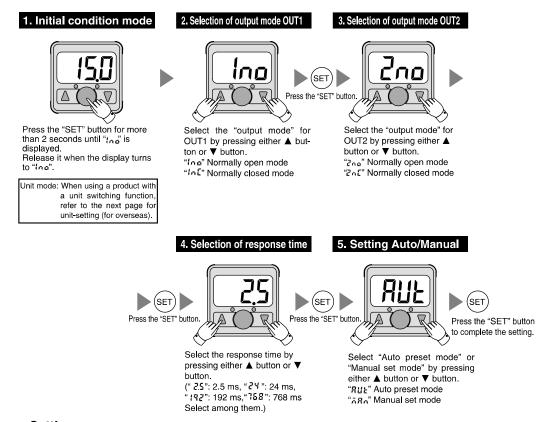
PF2□

 $\mathsf{IF}\Box$

Data

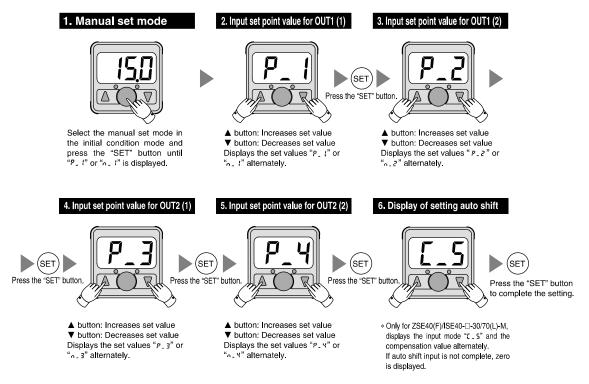
Calibration Procedures

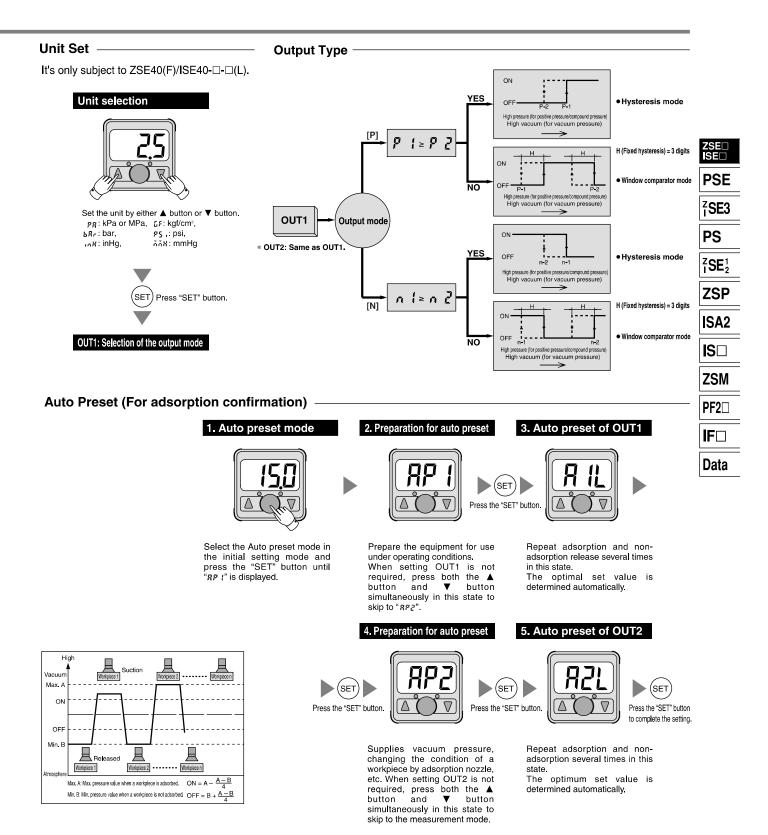
Initial Setting -



Manual Pressure Setting

Output mode differs by the pressure set value.







Calibration Procedures

Auto Preset (In the case of confirming the supply pressure)

1. Auto preset mode

2. Preparation for auto preset

3. Auto preset of OUT1



Select the Auto preset mode in the initial setting mode and press the "SET" button until "界月!" is displayed.



Press the "SET" button.



Prepare the equipment for use under operating conditions. When setting OUT1 is not required, press both the ▲ button and ▼ button button and simultaneously in this state to skip to "#₽2".

The pressure is read and the optimal set value is determind automatically.

4. Preparation for auto preset

5. Auto preset of OUT2









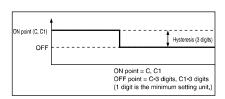
Press the "SET" button

(SET

to complete the setting. The pressure is read and the

optimal set value is determind

automatically.



Prepare the equipment for use under operating conditions of OUT2.

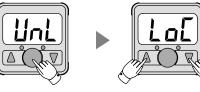
When setting OUT2 is not required, press both the A button and button simultaneously in this state to skip to the measurement mode.

Other Functions -

• Key lock mode ----- Used to avoid a malfunction when buttons on the front part of the switch are pressed.

(SET

Initiate key lock



Press the "SET" button for 4 seconds or longer. Release it when the display turns to "unt"

to complete the setting. Display "¿ot" by pressing ▲ button or ▼ button.

Peak mode-----

Allows holding of the maximum pressure value on display under measurement.



While displayed, pressing the ▲ button for 1 second or longer causes the peak mode to display and blink.

Pressing the **A** button once again for 1 second or longer reinstates it.

Note) Displaying the peak and the bottom display is not distinguished.

● Zero clear -----

- Allows an adjust to zero on the display if the pressure to be measured is within a range of ±70 digits from the atmospheric pressure. Pressing the ▲ + ▼ buttons simultaneously



with the supply pressure released to the atmosphere, causes it to reset to zero on the display and completes the zero clear operation. The function then returns to the measurement mode.

Release key lock



Press the "SET" button Press the "SET" button for 4 seconds or longer.

Release it when the display

Press the "SET" button to complete the setting.

Display "#nt" by pressing ▲ button or ▼ button.

Bottom mode ------

turns to "LoE

Allows holding of the minimum pressure value on display under measurement.



While displayed, pressing the lacktriangledown button for 1 second or longer causes the bottom mode to display and blink.

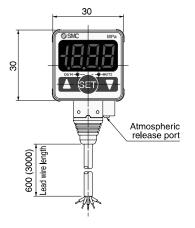
Pressing the ▼ button once again for 1 second or longer reinstates it.

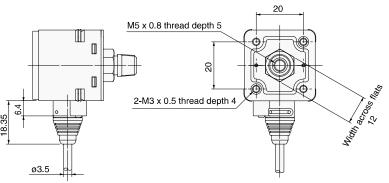
Note) Displaying the peak and the bottom display is not distinguished.

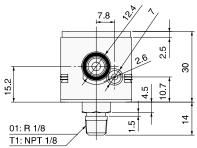
Dimensions

ZSE40(F)/ISE40-01









* For splash proof use (IP65), insert an air tube into the atmospheric release port. (Refer to "Precautions" on page 16-2-24 for details.)

ZSE□ ISE□

PSE

ZSE3

PS

ZSE₂

ZSP

ISA2

IS□

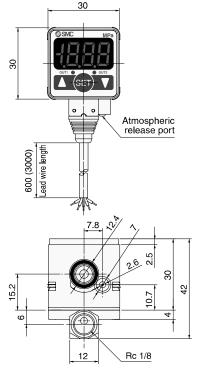
ZSM

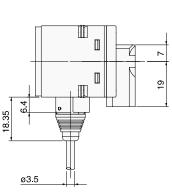
PF2□

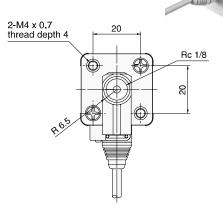
IF□

Data

ZSE40(F)/ISE40-W1

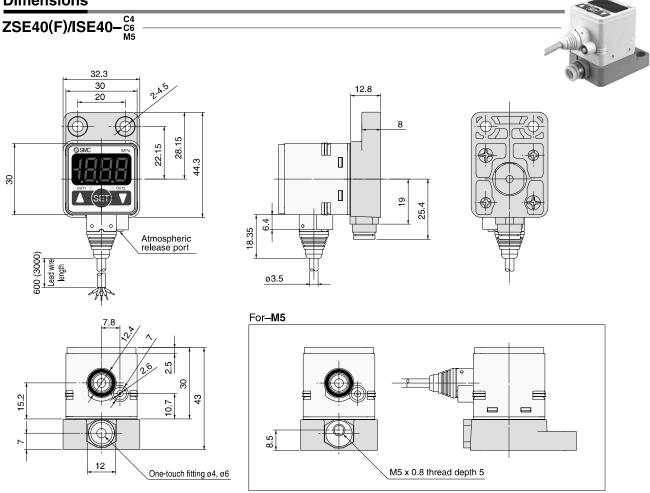






 For splash proof use (IP65), insert an air tube into the atmospheric release port.
 (Refer to "Precautions" on page 16-2-24 for details.)

Dimensions

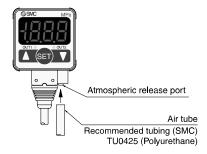


* For splash proof use (IP65), insert an air tube into the atmospheric release port. (Refer to "Precautions" for details.)

A Precautions

⚠ Caution

- 1. Immediately after supplying power, there is drift of about $\pm 0.5\%$ F.S. When used with very low pressure, allow the unit to warm up for about 20 to 30 minutes.
- 2. Do not use in locations where there is splashing or spraying of oils and solvents.
- When using a commercially available switching regulator, be sure to ground the FG terminal.
- 4. In locations where the switch is exposed to water and dust, etc., these may enter the switch from the atmospheric release port. Insert ø4 tubing (inside diameter ø2.5) into the atmospheric release port, and extend the other end to a safe area where water, etc., is not splashed or sprayed. Be sure that tubing is not bent and holes are not blocked, etc., or it will become impossible to make correct pressure measurements.





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 Note 1), JIS B 8370 Note 2) 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.
 - 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 appllications 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

\land 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, cynthetic 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. products pursue to meet 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

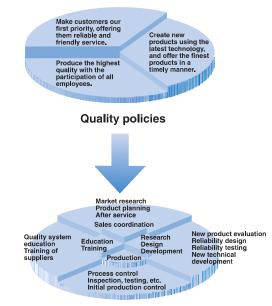
This is an international standard related to environmental management systems and environmental inspections. While promoting environmentally friendly automation technology, SMC is also making diligent efforts to preserve the environment.







SMC's quality control system



Quality 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.

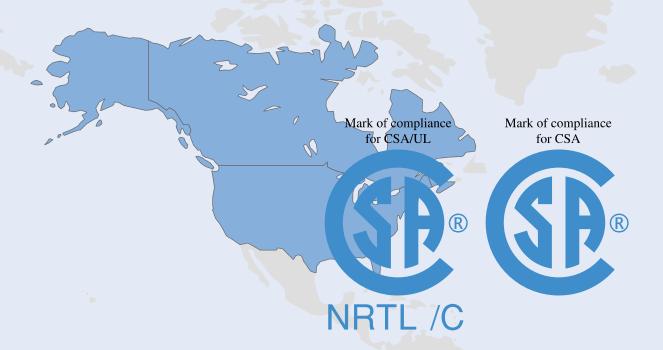
• Simple Pressure Vessels Directive

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

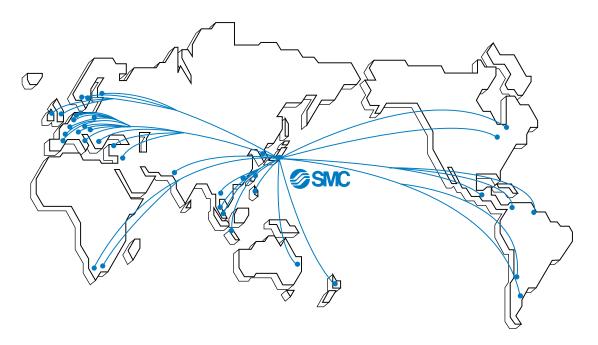


In this catalog each accredited product series is indicated with a CE mark symbol. However, in some cases, every available models may not meet CE compliance. Please visit our web site for the latest selection of available models with CE mark.

http://www.smcworld.com



SMC's Global Service Network



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Local 5, Caracas 1040-A, Venezuela

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AV. Canevaro 752, Lince, Lima, Peru TEL: 1-471-6002 FAX: 1-471-0935

URUGUAY (Distributor) BAKO S.A.

Galicia 1650 esq. Gaboto C.P. 11200, Montevideo, Uruguay TEL: 2-401-6603 FAX: 2-409-4306

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Rua. Dra. Maria Fidelis, nr. 130, Jardim Piraporinha-Diadema-S.P.

CEP: 09950-350, Brasil

TEL: 11-4051-1177 FAX: 11-4071-6636

COLOMBIA (Distributor) Airmatic Ltda.

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