

Diaphragm Style Flow Switch

Series IFW5

The flow switch, series IFW is used for detection and confirmation of the flow as a relaying device for the general water applications in some various equipment such as cooling water fixture in the industrial machinery.

- **Low flow setting possible (1 ℓ/min)**
- **Simple flow setting**
Without removing the cover, you can set with a screwdriver from the outside.



PAT. PEND

How to Order

IFW5 10 N 03 1 1

Diaphragm style flow switch

Flow range

10	1 to 10 ℓ/min
20	10 to 20 ℓ/min
50	20 to 50 ℓ/min

Thread type

Nil	Rc
N	NPT
F	G

Port size

03	3/8
04	1/2
06	3/4

Light

0	None
1	With neon light (110 VAC, Red)
2	With neon light (110 VAC, Green)
3	With neon light (220 VAC, Red)
4	With neon light (220 VAC, Green)
5 ^{Note)}	With LED light (24 VDC, Red)
6 ^{Note)}	With LED light (24 VDC, Green)

Note) LED light is available for 5, 6, 7, 8 (with terminal box for 24 VDC).

Terminal box

0	Without terminal box (Contact: 1ab)
1	With terminal box (Contact: 1ab)
2	With terminal box (Contact: 1b)
5 ^{Note)}	With terminal box (24 VDC, ⊕COM, Contact: 1b)
6 ^{Note)}	With terminal box (24 VDC, ⊕COM, Contact: 1a)
7 ^{Note)}	With terminal box (24 VDC, ⊖COM, Contact: 1b)
8 ^{Note)}	With terminal box (24 VDC, ⊖COM, Contact: 1a)

Note) Terminal box for 24 VDC is available for 5, 6 (LED light).

Specifications

Fluid	Water/Non-corrosive liquid *	
Operating pressure	0.1 to 0.6 MPa	
Water resistance	1.2 MPa	
Operating temperature range	-5 to 60°C (No freezing)	
Operation	Diaphragm style	
Insulation resistance	100 MΩ (500 DC by megameter)	
Withstand voltage	1500 VAC for one min.	
Contact	Without terminal box: 1ab	
	With terminal box: 1a or 1b	
Port size	3/8, 1/2, 3/4	
Body material in contact with fluid material	Body	BC6
	Rod	C3604B
	Diaphragm	NBR

About the use of *, please confirm SMC.

ZSE
ISE

PSE

ZSE3

PS

ZSE1

ZSE2

ZSP

ISA2

IS

ZSM

PF2

IF

Data

Series IFW5

Micro Switch Ratings

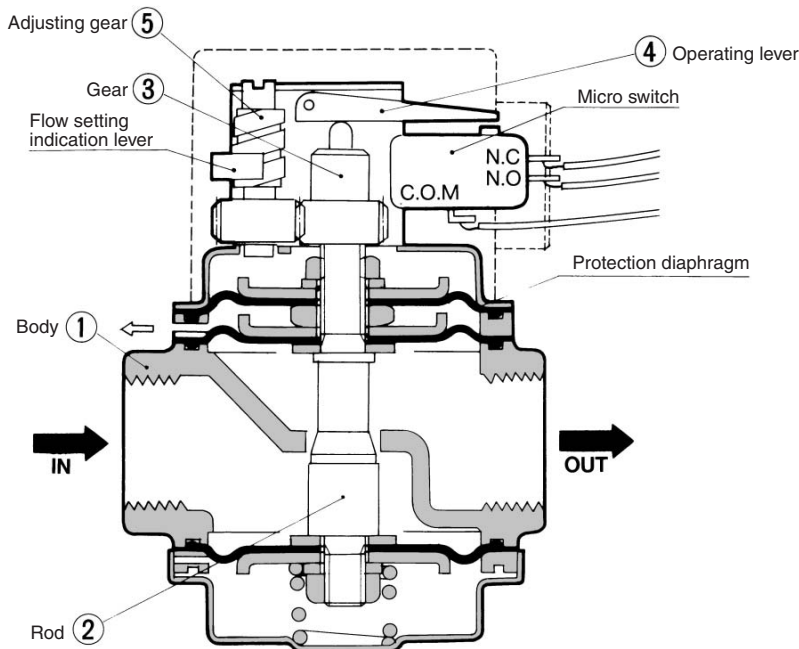
Voltage	Non inductive load (A)				Inductive load (A)			
	Load resistance		Light load		Inductive load		Motor load	
	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.
125 VAC	5	5	1.5	0.7	4	4	2.5	1.3
250 VAC	5	5	1	0.5	4	4	1.5	0.8
8 VDC	7	5	3	3	5	4	3	3
14 VDC	5	5	3	3	4	4	3	3
30 VDC	5	5	3	3	4	4	3	3
125 VDC	0.4	0.4	0.1	0.1	0.4	0.4	0.1	0.1
250 VDC	0.3	0.3	0.05	0.05	0.3	0.3	0.05	0.05

Model

Model	Flow range (l/min)	Max. flow (l/min)	Hysteresis (l/min) ^{Note)}
IFW510	1 to 10	20	1 or less
IFW520	10 to 20	25	1.5 or less
IFW550	20 to 50	60	3 or less

Note) Hysteresis is the flow rate that is necessary for moving the microswitch from the operation position (ON signal) to the return position (OFF signal).

Construction/Working Principle



Working Principle

Liquid flow creates a pressure differential nearby the orifice of the port of the body ①. One set of diaphragms monitors the pressure differential and operates the micro switch through the rod ② and operating lever ④.

The rod ② moves downward with increased flow, and upward with decreased flow. Moving the gear ⑤ upward or downward by the adjusting gear ③ manually offers an electric signal at various flow rates.

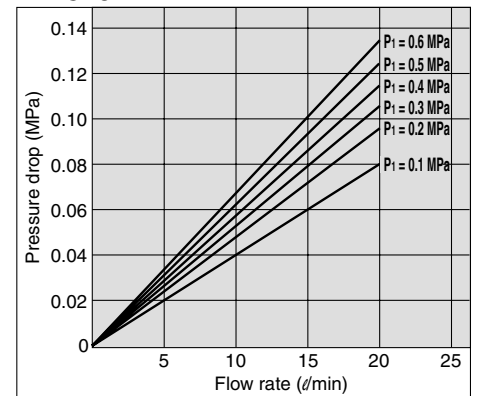
Component Parts

No.	Description	Material
①	Body	BC6
②	Rod	C3604B
③	Gear	POM

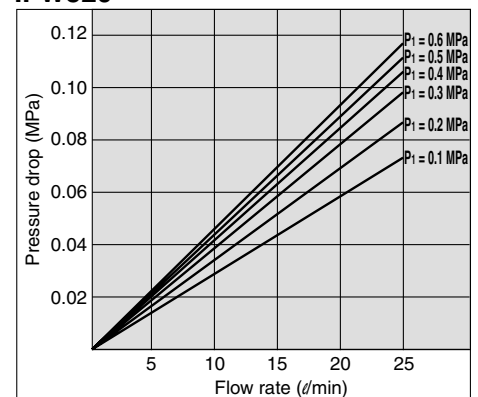
No.	Description	Material
④	Operating lever	SPCC
⑤	Adjusting gear	POM

Flow Characteristics

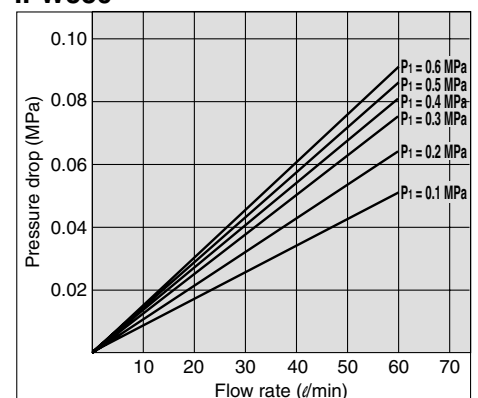
IFW510



IFW520



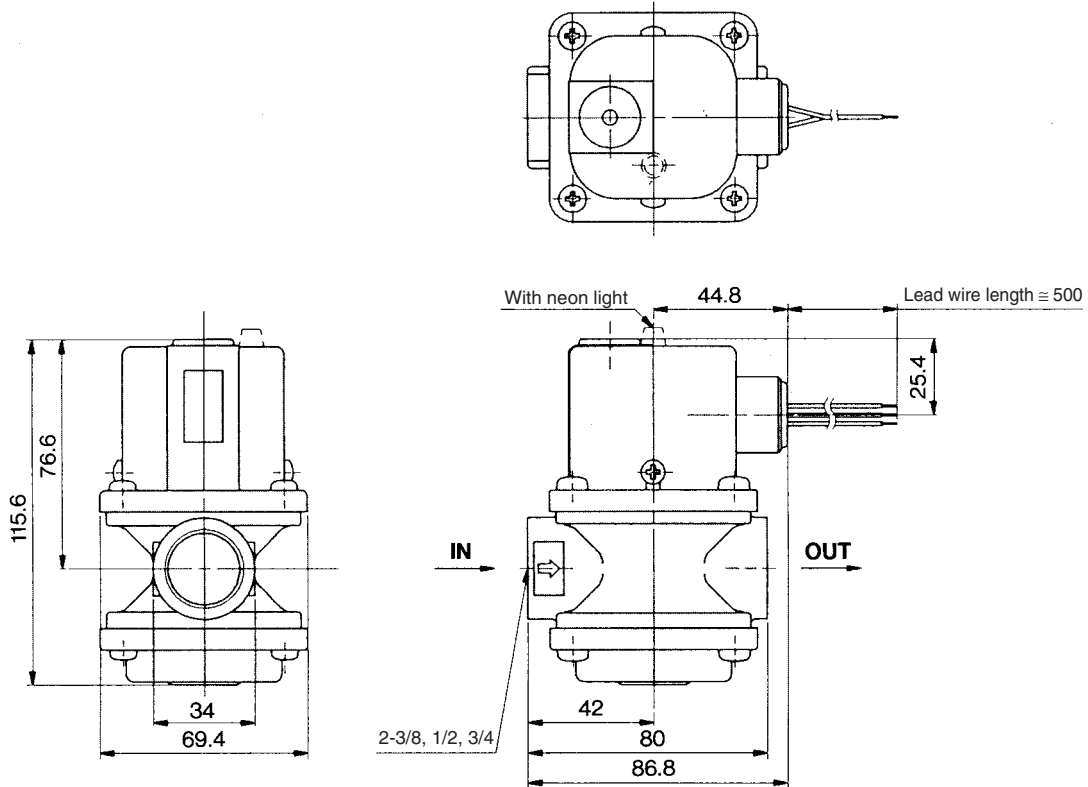
IFW550



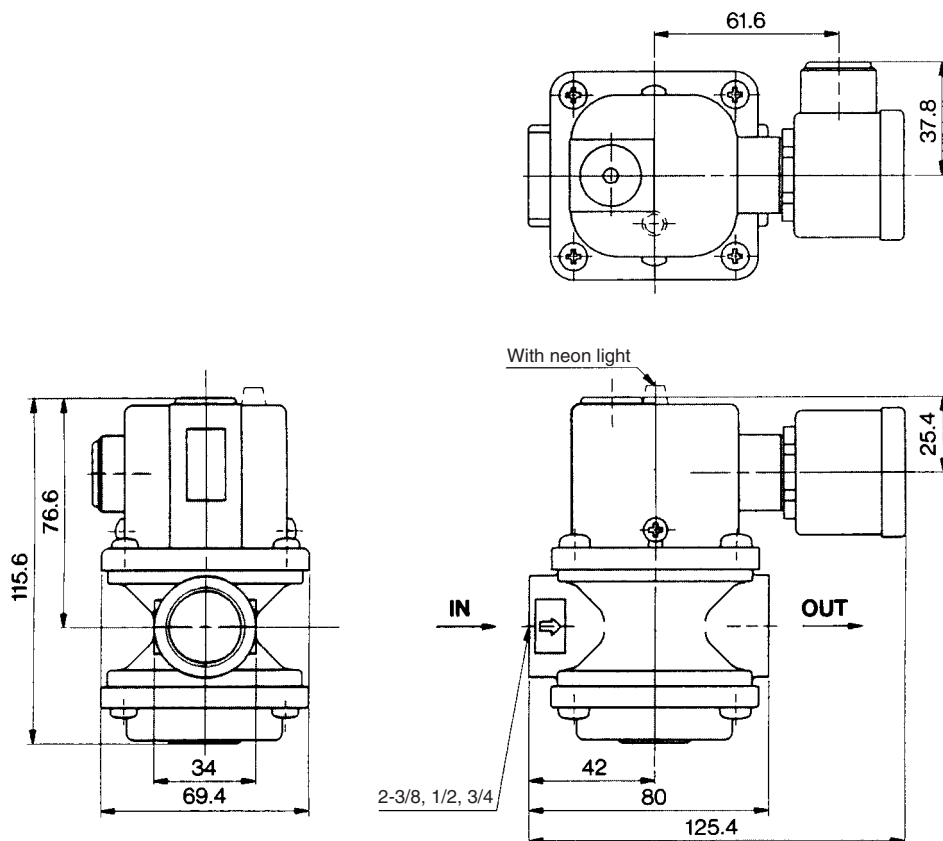
Diaphragm Style Flow Switch Series IFW5

Dimensions

IFW5□0-□□-00 to 04
(Without terminal box)



IFW5□0-□□-10 to 24
(With terminal box)



ZSE□
ISE□

PSE

ZSE3

PS

ZSE1₂

ZSP

ISA2

IS□

ZSM

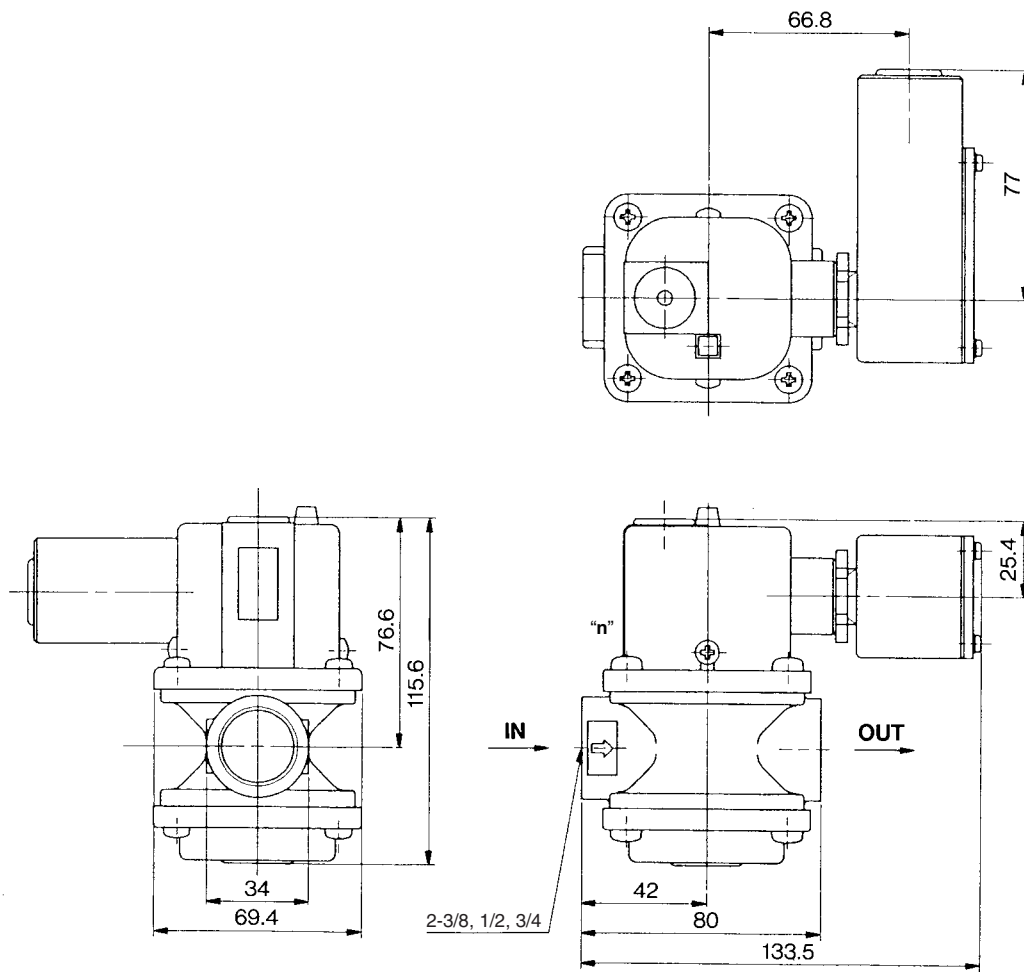
PF2□

IF□

Data

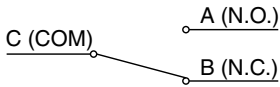
Series IFW5

IFW5□0-□□-55 to 86
(With light, Terminal box for 24 VDC)



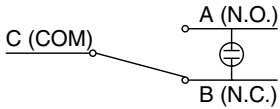
Internal Wiring Diagram

IFW5□0-□□-00/10/20



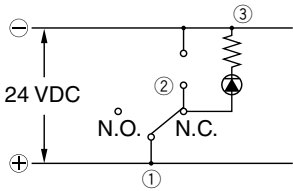
Symbol	Contact	Color of lead wire
C	Common	Black
A	Normally Open	White
B	Normally Closed	Red

IFW5□0-□□-01 to 04/11 to 14/21 to 24



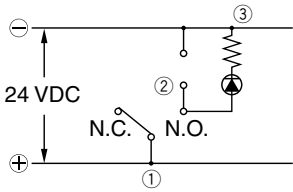
Symbol	Contact	Color of lead wire
C	Common	Black
A	Normally Open	White
B	Normally Closed	Red

IFW5□0-□□-55/56



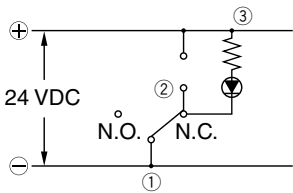
Symbol	Contact	Color of lead wire
①	Power supply (Common)	Black
②	Terminal (Relay terminal)	Red
③	Power supply (Light terminal)	Blue

IFW5□0-□□-65/66



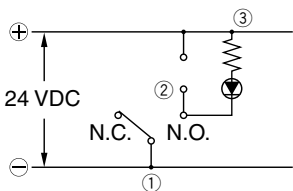
Symbol	Contact	Color of lead wire
①	Power supply (Common)	Black
②	Terminal (Relay terminal)	White
③	Power supply (Light terminal)	Blue

IFW5□0-□□-75/76



Symbol	Contact	Color of lead wire
①	Power supply (Common)	Black
②	Terminal (Relay terminal)	Red
③	Power supply (Light terminal)	Gray

IFW5□0-□□-85/86



Symbol	Contact	Color of lead wire
①	Power supply (Common)	Black
②	Terminal (Relay terminal)	White
③	Power supply (Light terminal)	Gray

⚠ Precautions

Be sure to read before handling. Refer to pages 16-14-13 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.

Mounting & Wiring

⚠ Caution

1. Mount a switch, so that the liquid flow is in the same direction as that of the arrow on the body.
2. The flow switch can be installed either horizontally or vertically.
3. Provide a straight pipe portion that corresponds to approximately 5 times the bore of the pipe before and after the area of the pipe on which the product is installed, thus keeping the product as far away as possible from the elements that disturb the flow, such as elbows or valves.
4. For wiring, refer to the internal wiring diagram.
5. If a terminal box is not available, wire by selecting the contact at 1a or 1b. At that time, insulate the lead wires that will not be used.
6. Because this is an open style, it cannot be used where water or oil splashes.
7. It cannot be used if a water hammer or pulsation pressure is applied to the fluid.
8. In order to prevent a malfunction or diaphragm damage caused by debris or cutting chips in the fluid, install a filter with approximately 100 mesh on the inlet side of a flow switch.

Adjusting

⚠ Caution

1. To adjust flow, remove grommet of the upper cover and rotate flow adjusting gear using a flat head screwdriver. Turning clockwise can increase the set flow and turning counterclockwise can decrease the set flow.
2. Align the indicator needle to the graduation on the left side of the window name plate if the IN side pressure is 0.1 MPa, and to the graduation on the right side if the pressure is 0.2 MPa. (Refer to Fig. (1).)
3. The flow rate setting point is set at the ON flow rate. Therefore, in the case of the 1a contact, the ON signal is output if fluid with a higher flow rate than the set flow rate has occurred. In the case of the 1b contact, the OFF signal is output when the flow rate has decreased from the set flow rate for the amount that corresponds to the hysteresis.
4. If the IN side pressure exceeds 0.2 MPa, the setting cannot be made with the graduation on the window name plate. Therefore, perform the setting by installing a flow rate gauge on the outlet side of the flow switch.
5. To prevent the chattering that is associated with the fluctuation of the operating flow rate, set the difference between the set flow rate and the operating flow rate so that it is as large as possible.
6. Use at or below the maximum operating pressure and maximum flow rate.

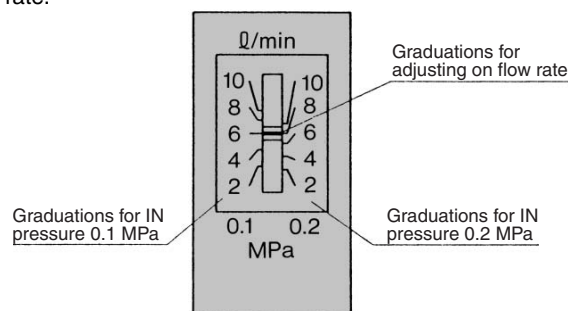




Fig. (1) Viewing faceplate




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.
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

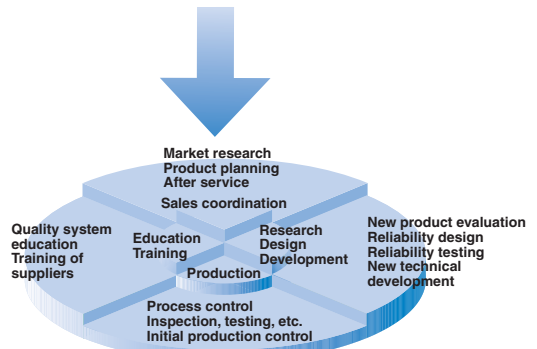
This is an international standard related to environmental management systems and environmental inspections. While promoting environmentally friendly automation technology, SMC is also making diligent efforts to preserve the environment.



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

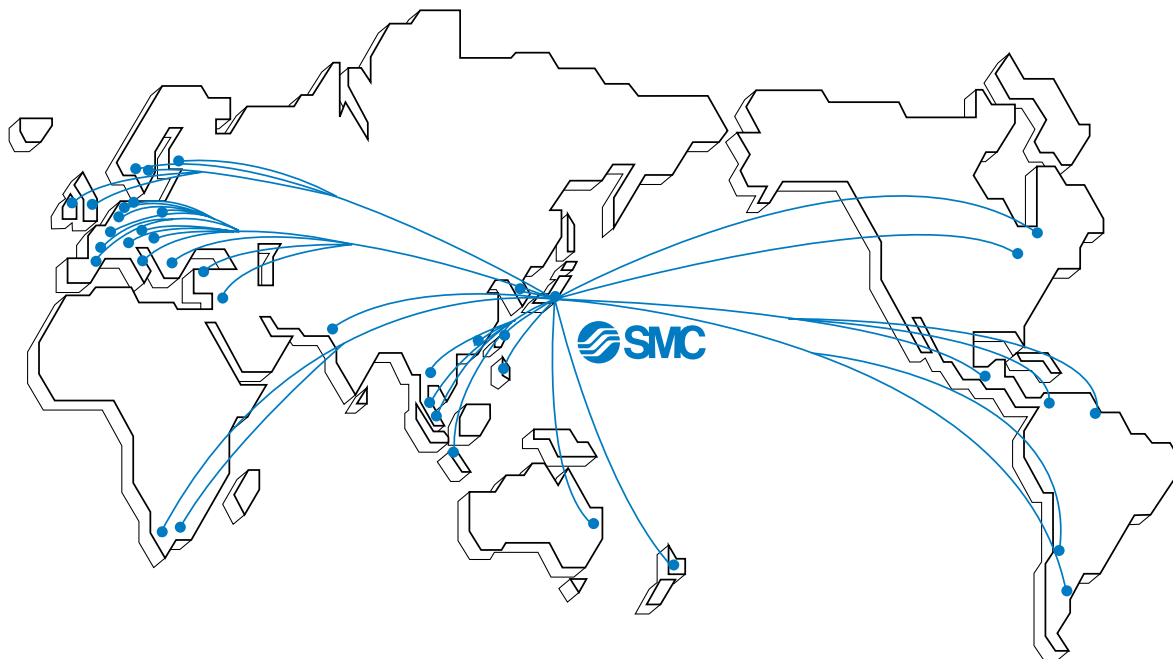


With CE symbol for simple visual recognition

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>

SMC's Global Service Network



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