

Self-align Fittings

Series *H/DL/L/LL*

Flared ridge ferrule

Prevents accidental loss of ferrule when inserting tubing into the fitting body.

Hardened ridge ferrule

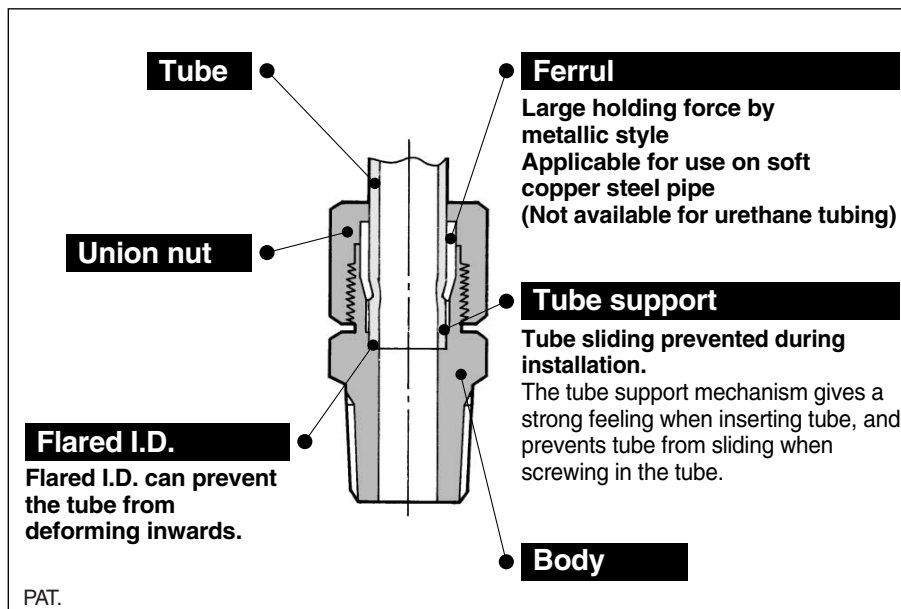
Prevents breakage of ferrule when tightening nut.

Flared I.D.

Provides low flow resistance inside the fitting.

Wide variety of styles and sizes

Ten styles and five tube O.D's provide a wide range of fittings that will fit any application.



Specifications












Applicable tubing material		Nylon, Soft nylon, Soft copper steel pipe (C1220T-0)
Applicable tubing O.D.		ø4, ø6, ø8, ø10, ø12
Maximum operating pressure		1.0 MPa
Proof pressure		10 MPa
Fluid		Air
Thread	Mounting section	JIS B 0203 (Taper thread for piping)
	Nut section	JIS B 0211 Class 2 (Metric fine thread)
Seal (Thread portion) ^{Note)}		None or with seal



Note) Male elbow, Male branch tee, Male run tee with seal is manufactured upon receipt of order. Suffix "S" to the end of part number if w/ seal is desired.

Principal Parts Material

Body	C3604BD, C3771BE
Nut	C3604BD
Ferrul	C2700T

Model	
Male connector	
H  P. 62	Use to pipe in the same direction from female thread. Most general style.
Male run tee	
DY  P. 63	Use to branch line in the same direction from female thread and in 90° direction.
Male elbow	
DL  P. 62	Use to pipe at right angles to female thread. Most general style.
Bulkhead union	
DE  P. 63	Use to connect tubes through a panel.
Union tee	
DT  P. 62	Use to connect tubes in both 90° directions.
Bulkhead connector	
DEF  P. 63	Use to connect male head and tube through a panel.
Female connector	
DHF  P. 63	Use to pipe from male thread such as pressure gauge.
Plug	
DP  P. 64	Use to plug unused fittings.
Male branch tee	
DT  P. 64	Use to branch line from female thread in both 90° directions.
Swivel elbow	
L  P. 64	Use to pipe at right angles to female thread. Swiveled at any direction.
Swivel extended elbow	
LL  P. 64	Use to pipe at right angles to female thread. Swiveled at any direction. Solid piece moves fittings up from workpiece.

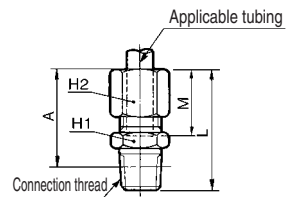
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- VMG

Series H/DL/L/LL

Male Connector: H



Applicable tubing O.D. (mm)	Connection threads R	Model	H1 (width across flats)	H2 (width across flats)	L	M	A*	Effective area (mm ²)	Weight (g)
4	1/8	H04-01	10	10	25.1	15	21.1	4	10
	1/4	H04-02	14		29.1		23.1		17
6	1/8	H06-01	10	12	25.1	16	21.1	11	12
	1/4	H06-02	14		29.1		23.1		19
	3/8	H06-03	17		31.1		24.8		31
8	1/8	H08-01	12	14	25.1	16	21.1	20	16
	1/4	H08-02	14		29.1		23.1		21
	3/8	H08-03	17		31.1		24.8		30
10	1/4	H10-02	14	17	29.1	17	23.1	34	28
	3/8	H10-03	17		31.1		24.8		37
	1/2	H10-04	22		34.1		25.9		53
12	1/4	H12-02	17	19	30.1	17	24.1	51	30
	3/8	H12-03	17		31.1		24.8		39
	1/2	H12-04	22		34.1		25.9		59

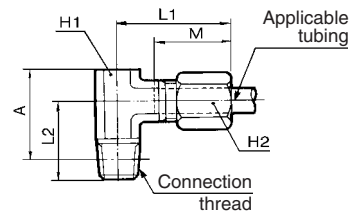


* Reference dimensions after R thread installation.

Male Elbow: DL

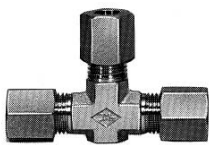


Applicable tubing O.D. (mm)	Connection threads R	Model	H1 (width across flats)	H2 (width across flats)	L1	L2	M	A*	Effective area (mm ²)	Weight (g)
4	1/8	DL04-01	10	10	23.5	17	15	19.6	3.5	23
	1/4	DL04-02				19				30
6	1/8	DL06-01	10	12	23.5	17	16	19.6	9	25
	1/4	DL06-02				19				31
	3/8	DL06-03				14				26.5
8	1/8	DL08-01	12	14	24.5	18	16	21.6	19	32
	1/4	DL08-02				21				38
	3/8	DL08-03				14				26.5
10	1/4	DL10-02	14	17	26.5	23	17	25.8	31	51
	3/8	DL10-03				22				57
	1/2	DL10-04				17				28.5
12	1/4	DL12-02	17	19	28.5	25	17	29.6	43	76
	3/8	DL12-03				26				85
	1/2	DL12-04				27				29.4

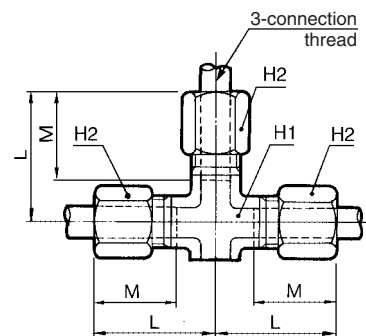


* Reference dimensions after R thread installation.

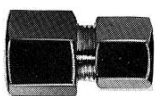
Union Tee: DT



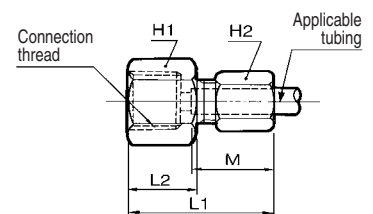
Applicable tubing O.D. (mm)	Model	H1 (width across flats)	H2 (width across flats)	L	M	Effective area (mm ²)	Weight (g)
4	DT04-00	10	10	23.5	15	5.7	32
6	DT06-00	10	12	23.5	16	14	36
8	DT08-00	12	14	24.5	16	25	47
10	DT10-00	14	17	26.5	17	49	70
12	DT12-00	17	19	28.5	17	55	70



Female Connector: DHF



Applicable tubing O.D. (mm)	Connection threads Rc	Model	H1 (width across flats)	H2 (width across flats)	L1	L2	M	Effective area (mm ²)	Weight (g)
4	1/4	DHF04-02	17	10	30.3	16	15	4	27
6	1/4	DHF06-02	17	12	30.8	16.5	16	11	28
	3/8	DHF06-03			32.8	18.5			31
8	1/4	DHF08-02	17	14	29.8	15.5	16	20	30
10	1/4	DHF10-02	17	17	30.8	16.5	17	34	37
12	1/4	DHF12-02	17	19	30.8	16.5	17	51	40



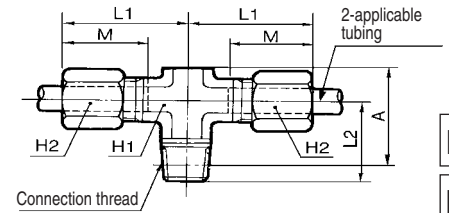
Self-align Fittings Series H/DL/L/LL

Male Branch Tee: DT



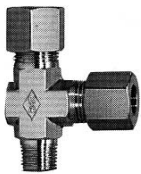
Applicable tubing O.D. (mm)	Connection threads R	Model	H1 (width across flats)	H2 (width across flats)	L1	L2	M	A*	Effective area (mm ²)	Weight (g)
4	1/8	DT04-01	10	10	23.5	17	15	19.6	5.7	33
	1/4	DT04-02				19				40
6	1/8	DT06-01	10	12	23.5	17	16	19.6	14	35
	1/4	DT06-02				19				44
	3/8	DT06-03				22				70
8	1/8	DT08-01	12	14	24.5	18	16	21.6	25	45
	1/4	DT08-02				21				52
	3/8	DT08-03				22				73
10	1/4	DT10-02	14	17	26.5	23	17	25.8	49	72
	3/8	DT10-03				22				78
	1/2	DT10-04				27				120
12	1/4	DT12-02	17	19	28.5	25	17	29.6	55	106
	3/8	DT12-03				26				111
	1/2	DT12-04				27				120

* Reference dimensions after R thread installation.



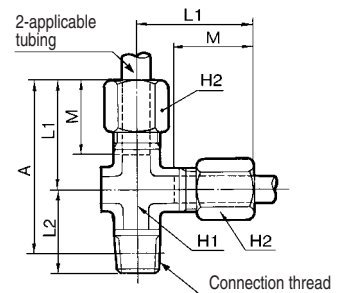
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Male Run Tee: DY



Applicable tubing O.D. (mm)	Connection threads R	Model	H1 (width across flats)	H2 (width across flats)	L1	L2	M	A*	Effective area (mm ²)	Weight (g)
4	1/8	DY04-01	10	10	23.5	17	15	36.5	6.9	32
	1/4	DY04-02				19				40
6	1/8	DY06-01	10	12	23.5	17	16	36.5	16	36
	1/4	DY06-02				19				42
	3/8	DY06-03				22				66
8	1/8	DY08-01	12	14	24.5	18	16	38.5	32	44
	1/4	DY08-02				21				51
	3/8	DY08-03				22				69
10	1/4	DY10-02	14	17	26.5	23	17	43.5	56	70
	3/8	DY10-03				22				77
	1/2	DY10-04				27				116
12	1/4	DY12-02	17	19	28.5	25	17	47.5	62	106
	3/8	DY12-03				26				112
	1/2	DY12-04				27				119

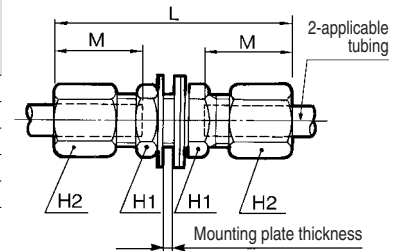
* Reference dimensions after R thread installation.



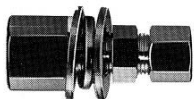
Bulkhead Union: DE



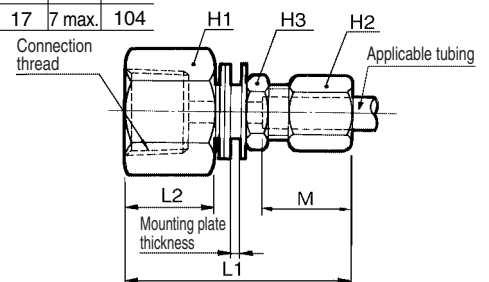
Applicable tubing O.D. (mm)	Model	H1 (width across flats)	H2 (width across flats)	L	M	Effective area (mm ²)	Mounting hole	Mounting plate thickness	Weight (g)
4	DE04-00	10	10	47.5	15	4	9	4 max.	29
6	DE06-00	12	12	50.5	16	11	11	4 max.	43
8	DE08-00	14	14	52.5	16	20	13	6 max.	62
10	DE10-00	17	17	55.5	17	34	15	7 max.	93
12	DE12-00	19	19	56.5	17	51	17	7 max.	112



Bulkhead Connector: DEF



Applicable tubing O.D. (mm)	Connection threads Rc	Model	H1 (width across flats)	H2 (width across flats)	H3 (width across flats)	L1	L2	M	Effective area (mm ²)	Mounting hole	Mounting plate thickness	Weight (g)
6	1/4	DEF06-02	17	12	12	46.5	15	16	11	11	4 max.	48
8	3/8	DEF08-03	19	14	14	50.5	17	16	20	13	6 max.	66
10	3/8	DEF10-03	19	17	17	53.5	17	17	34	15	7 max.	89
12	3/8	DEF12-03	19	19	19	54.5	17	17	51	17	7 max.	104

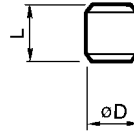


Series H/DL/L/LL

Plug: DP



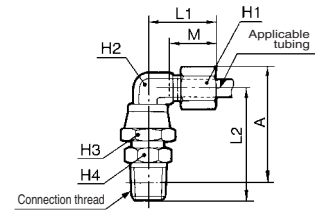
Applicable fitting (mm)	Model	L	øD	Weight (g)
4	DP-04	8	5.6	0.2
6	DP-06		7.6	0.5
8	DP-08		9.6	0.8
10	DP-10		11.6	1.2
12	DP-12		13.6	1.6



Swivel Elbow: L

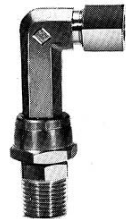


Applicable tubing O.D. (mm)	Connection thread R	Model	H1 (width across flats)	H2 (width across flats)	H3 (width across flats)	H4 (width across flats)	L1	L2	M	A*	Effective area (mm ²)	Weight (g)
4	1/8	L04-01	10	10	14	10	21.8	30.9	15	32.7	3.5	33
	1/4	L04-02				14		34.9		34.7		40
6	1/8	L06-01	12	10	14	10	21.8	30.9	16	33.8	9	36
	1/4	L06-02				14		34.9		37.5		43
	3/8	L06-03				17		36.9		37.5		55
8	1/8	L08-01	14	12	17	12	23.3	31.9	16	36	19	46
	1/4	L08-02				14		35.9		38		52
	3/8	L08-03				17		37.9		39.7		61
10	1/4	L10-02	17	14	19	14	23.3	36.9	17	40.7	31	68
	3/8	L10-03				17		38.9		42.4		76
	1/2	L10-04				22		41.9		43.5		96
12	1/4	L12-02	19	17	22	17	24.3	39.9	17	44.9	43	86
	3/8	L12-03				17		40.9		45.6		94
	1/2	L12-04				22		43.9		46.7		118

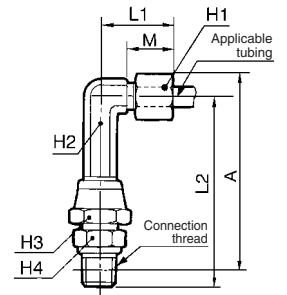


* Reference dimensions after R thread installation.

Swivel Extended Elbow: LL



Applicable tubing O.D. (mm)	Connection thread R	Model	H1 (width across flats)	H2 (width across flats)	H3 (width across flats)	H4 (width across flats)	L1	L2	M	A*	Effective area (mm ²)	Weight (g)
4	1/8	LL04-01	10	10	14	10	21.8	50.9	15	52.7	3.5	45
	1/4	LL04-02				14		54.9		54.7		53
6	1/8	LL06-01	12	10	14	10	21.8	51.9	16	54.8	9	47
	1/4	LL06-02				14		55.9		56.8		44
	3/8	LL06-03				17		57.9		58.5		66
8	1/8	LL08-01	14	12	17	12	23.3	52.9	16	57	19	63
	1/4	LL08-02				14		56.9		59		68
	3/8	LL08-03				17		58.9		60.7		77
10	1/4	LL10-02	17	14	19	14	23.3	58.9	17	62.7	31	89
	3/8	LL10-03				17		60.9		64.4		98
	1/2	LL10-04				22		63.9		65.5		117
12	1/4	LL12-02	19	17	22	17	24.3	62.9	17	66.7	43	121
	3/8	LL12-03				17		63.9		67.4		129
	1/2	LL12-04				22		66.9		71.4		153

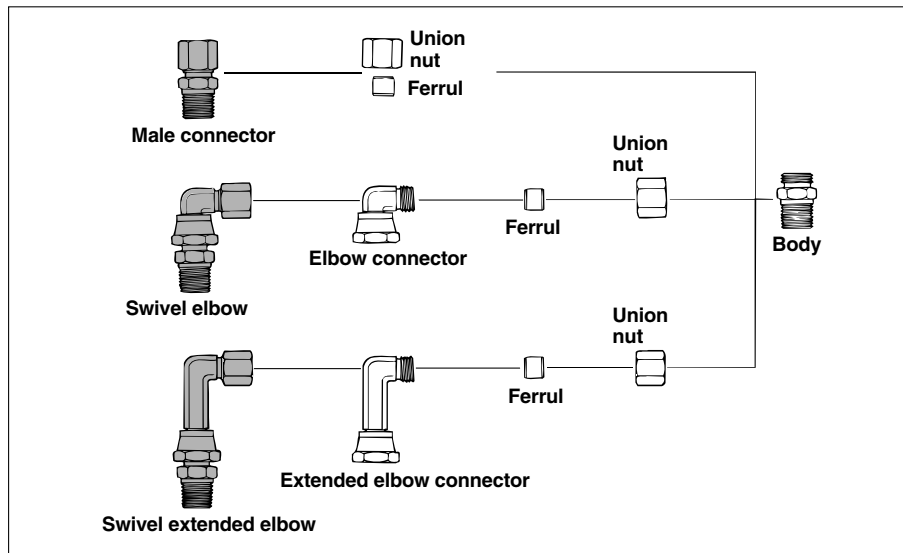


* Reference dimensions after R thread installation.

Swivel Type/Parts No.

Swivel type fitting parts lineup

The body of elbow connectors and extended elbow connectors are compatible with almost any fitting. (Except "L-04" and "LL-04" which are for the body of $\phi 6$ tube.) Swivel fittings, elbow (L) and (LL) constitute the combination with a male connector (H) and connector as shown in the diagram.



- K
- M
- H
- D
- MS
- T
- VMG

Union Nut: N			Elbow Connector: L			Ferrul: S			Extended Elbow Connector: LL	
Part no.	Applicable tubing O.D.	Weight (g)	Part no.	Applicable tubing O.D.	Part no.	Applicable tubing O.D.	Weight (g)	Part no.	Applicable tubing O.D.	
N-04	$\phi 4$	5	L-04	$\phi 4$	S-04	$\phi 4$	0.7	LL-04	$\phi 4$	
N-06	$\phi 6$	7	L-06	$\phi 6$	S-06	$\phi 6$	1.1	LL-06	$\phi 6$	
N-08	$\phi 8$	8	L-08	$\phi 8$	S-08	$\phi 8$	1.4	LL-08	$\phi 8$	
N-10	$\phi 10$	13	L-10	$\phi 10$	S-10	$\phi 10$	1.7	LL-10	$\phi 10$	
N-12	$\phi 12$	14	L-12	$\phi 12$	S-12	$\phi 12$	2.0	LL-12	$\phi 12$	

⚠ Precautions

Be sure to read before handling. Refer to pages 15-18-3 to 15-18-4 for Safety Instructions and Common Precautions on the products mentioned in this catalog, and refer to pages 15-1-10 to 15-1-11 for Precautions on every series.

Installation


⚠ Caution


1. Cut the tube perpendicular to the tube axis a little longer than the required length. (Use tube cutter TK-1, 2 or 3.)
2. Then, push the cut tube in until it comes to the flared edge, and tighten the nut by hand.
3. Furthermore, give the nut an additional 1.5 turns with a tightening tool. Leave no space between the screwed-in nut and the tube in-line with the tube axis. If tightened insufficiently, nut may be loosened and it may result in air leakage or may come off.
4. When using soft copper tube, first tighten the nut by hand and then give it an additional one turn with wrench. Use JIS H3300, equivalent to seamless tube C1220T-0, as soft copper tube. If using any other style, it may cause the air leakage or tube to come off.




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

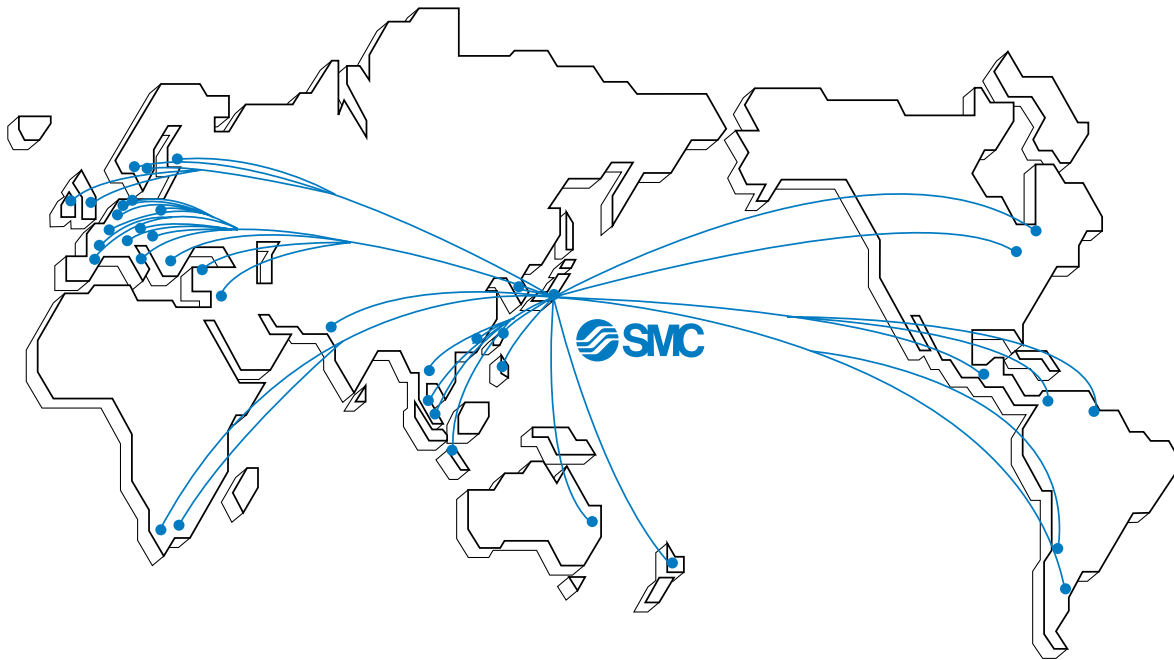


With CE symbol for simple visual recognition

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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