



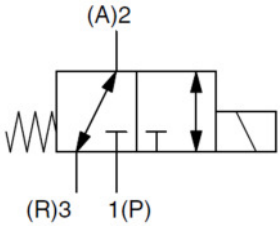
ORIGINAL INSTRUCTIONS

Instruction Manual



Refer to Declaration of
Conformity for relevant
Directives.

3 Port Solenoid Valve Direct Operated Poppet Type
Series VT317 / VO317



The intended use of this product is to switch a pressure.

Refer to how to order for CE marked and/or validated components.
Validated according to ISO 13849, see section 2.

1 Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of “Caution”, “Warning” or “Danger”. They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) ⁽¹⁾, and other safety regulations.

- ⁽¹⁾ISO 4414: Pneumatic fluid power - - General rules relating to systems.
- ISO 4413: Hydraulic fluid power - - General rules relating to systems.
- IEC 60204-1: Safety of machinery - - Electrical equipment of machines. (Part 1: General requirements)
- ISO 10218-1: Manipulating industrial robots -Safety. etc.

This manual contains essential information for the protection of users and others from possible injury and/or equipment damage.

- Read this manual before using the product, to ensure correct handling, and read the manuals of related apparatus before use.
- Keep this manual in a safe place for future reference.
- To ensure safety of personnel and equipment the safety instructions in this manual must be observed, along with other relevant safety practices.

	Caution	Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
	Warning	Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
	Danger	Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

Warning

- The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.**
- Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.
- Only personnel with appropriate training should operate machinery and equipment.**

1 Safety Instructions - continued

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- Do not service or attempt to remove product and machinery/equipment until safety is confirmed.**
 - 1) The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2) When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3) Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.**
 - 1) Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2) Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustions and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specification described in the product catalogue.
 - 3) An application which could have negative effects on people, property, or animals requiring special safety analysis [outside the scope of ISO 13849 described in this document].
 - 4) Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.
- Always ensure compliance with relevant safety laws and standards.**
- All electrical work must be carried out in a safe manner by a qualified person in compliance with applicable national regulations.

Caution

The product is provided for use in manufacturing industries.
The product herein described is basically provided for peaceful use in manufacturing industries.
If considering using the product in other industries consult SMC beforehand and exchange specifications or a contract if necessary.
If anything is unclear, contact your nearest sales branch.

- Ensure that the air supply quality meets the specification in section 2.

2 Specifications

2.1 Standard Specifications

Valve configuration	Rubber seal
Actuation	Direct operated type 2 position single solenoid
Fluid	Air
Min. air quality	5 µm filtration
Min. operating pressure	0 MPa
Max. operating pressure	0.9 MPa
Proof pressure	1.35 MPa
Flow	Refer to Table 3, Table 4
Ambient and fluid temperature	-10 °C to 50 °C (No freezing)
Response time ^{Note 1)}	30 ms or less (0.5 MPa)
Min. operating frequency	1 cycle / 30 days
Max. operating frequency	10 Hz
Duty cycle	See section 2.3 and 3.10
Lubrication	Not required (Refer to 3.4)
Manual override	Non-locking push style
Mounting position	Free
Impact / Vibration resistance ^{Note 2)}	150 / 50 m/s ²
Enclosure	Dust proof
Weight	0.29 kg

2 Specifications - continued

Standards ^{Note 4)}	Complies with the basic and well-tried safety principles of EN ISO 13849-2:2012
B ₁₀ ^{Note 5)}	18 million cycles (18000 cycles for VT317E)
B _{10D} ^{Note 5)}	36 million cycles (36000 cycles for VT317E)

Table 1

2.1.1 Solenoid Specifications

Electrical entry		Grommet, conduit, conduit terminal, DIN terminal
Coil rated voltage (V)	AC (50/60 Hz)	100, 200, 110*, 220*, 240*
	DC	12*, 24
Allowable voltage fluctuation		-15 to +10% of rated voltage
Insulation		Class B
Apparent power ^{Note 6)}	AC	Inrush 19 VA (50 Hz), 16 VA (60 Hz)
		Holding 11 VA (50 Hz), 7 VA (60 Hz)
Power consumption ^{Note 6)}	DC	Without light: 6 W, With light: 6.3 W
Indicator light and surge voltage suppressor	AC	ZNR (Varistor), Neon lamp
	DC	ZNR (Varistor), LED (Neon lamp for 100 V or more)
Polarity		Nonpolar

Table 2

Notes:

- * Option
- Note 1) Based on dynamic performance test JIS B8374-1981. (Coil temperature 20 °C, at rated voltage, without surge voltage suppressor.)
- Note 2) **Impact resistance:** No malfunction resulted from the impact test using a drop impact tester. The test was performed on the axis and right angle directions of the main valve and armature, for both energized and de-energized states.
Vibration resistance: No malfunction occurred in a one sweep test between 45 and 1000 Hz. Test was performed at both energized and de-energized states to the axis and right angle directions of the main valve and armature. (Value in the initial stage.)

- Note 3) This is the value for single valve.
- Note 4) Compliance only applies to the products listed in section 5 “How to order”.
- Note 5) Under SMC test conditions. The B₁₀ figure is estimated from SMC life tests. The B_{10D} figure is derived from B₁₀ using the assumption in EN ISO 13849-1:2015 Annex C. Contact SMC for details.
- Note 6) At rated voltage.

2.2 Flow characteristics

1 → 2 (P → A)			2 → 3 (A → R)		
C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv
2.4	0.26	0.62	2.6	0.34	0.67

Table 3

3 → 2 (R → A)			2 → 1 (A → P)		
C [dm ³ /(s·bar)]	b	Cv	C [dm ³ /(s·bar)]	b	Cv
2.8	0.25	0.67	2.5	0.37	0.66

Table 4

2.3 VT317E: Continuous Duty Type

- Exclusive use of VT317E is recommended for continuous duty with long ON time.

Caution

- This model is for continuous duty, not for high cycle rates. But even in low cycle rates, if energizing the valve more than once a day, consult SMC.
- Energizing solenoid should be done at least once in 30 days.

2.4 VT317V: Vacuum Style

- This vacuum model has less air leakage than the standard model under low pressure. It is recommended for vacuum applications.

Caution

- Since this valve has slight air leakage, it cannot be used for vacuum holding (including positive pressure holding) in the pressure container.

2 Specifications - continued

2.4.1 Specification different from standard

Min. operating pressure	-101.2 kPa
Max. operating pressure	0.1 MPa

Table 5

Caution

Special products might have specifications different from those shown in this section. Contact SMC for specific drawings. These drawings will give the appropriate specification details and compliance with the safety principles of ISO 13849, if applicable.

3 Installation

3.1 Installation

Warning

- Do not install the product unless the safety instructions have been read and understood.
- It is possible to install the valve in the open or closed position. Therefore pay careful attention to the following information:
Normally closed means that there is no output from port “A” when pressure is connected to port “P” and the solenoid is de-energised.
Normally open means that there is an output from port “A” when pressure is connected to port “R” and the solenoid is de-energised.
- If it is intended to energise the valve for extended periods please consult SMC.

Caution

- Ensure all air and power supplies are isolated before commencing installation.

3.2 Environment

Warning

- Do not use in an environment where corrosive gases, chemicals, salt water or steam are present.
- Do not use in an explosive atmosphere.

- Do not expose to direct sunlight. Use a suitable protective cover.
- Do not install in a location subject to vibration or impact. Check the product specifications.
- Do not mount in a location exposed to radiant heat.
- Do not expose to water or oil droplets. Ensure that the valve is protected.
- If any valve is used in a dusty environment a filter should be inserted in the exhaust port and if a suction pad is used the filter should be installed between the pad and the valve.

3.3 Piping

Caution

- Before piping make sure to clean up chips, cutting oil, dust etc.
- When installing piping or fittings, ensure sealant material does not enter inside the port. When using seal tape, leave 1.5 to 2 threads exposed on the end of the pipe/fitting.
- Tighten fittings to the specified tightening torque.

Thread	Tightening torque N·m
1/8	7 - 9 (70 - 90)
1/4	12 - 14 (120 - 140)
3/8	22 - 24 (220 - 240)

Table 6

3.4 Lubrication

Caution

- SMC products have been lubricated for life at manufacture, and do not require lubrication in service.
- If a lubricant is used in the system, use turbine oil Class 1 (no additive), ISO VG32. Once lubricant is used in the system, lubrication must be continued because the original lubricant applied during manufacturing will be washed away.

3 Installation - continued

3.5 Bleed port

Caution

- 1.The bottom of the solenoid valve has a breather hole for the main valve. Take proper measures to prevent this hole from being blocked as this will lead to a malfunction.
- * Ordinarily, when the solenoid valve is mounted on a metal surface, it can breathe through the breather hole, via the breather groove. However, in particular, if the surface to be mounted is made of rubber, the rubber could deform and block the hole.
- 2.Take proper measures to prevent dust or foreign matter from entering through unused ports. The grommet portion contains a breather hole for the core. Take proper measures to prevent dust or foreign matter from accumulating in this area.

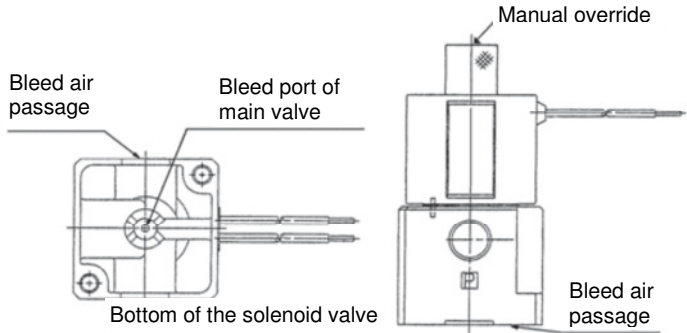


Figure 1

3.6 Change of electrical entry angle

Series VT317 can change electrical entry angle (4 positions).
How to change it: Loosen nut ①, remove coil ② from the body assembly ③, place positioning pin ④ at the required place, put back coil ② to its place and tighten sufficiently with lock nut ①.

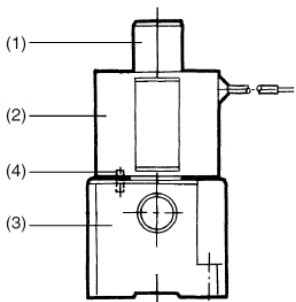


Figure 2

3.7 Leakage voltage

Please note, if a C-R element is used for contact protection, please allow for an increase of leakage voltage which may pass through the C-R element.

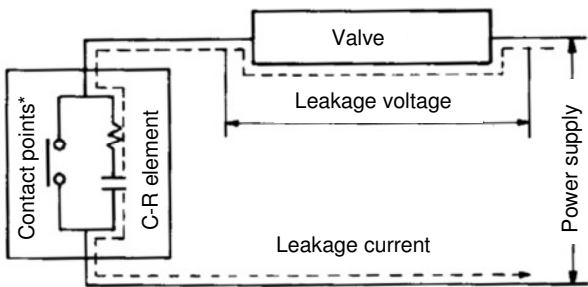


Figure 3

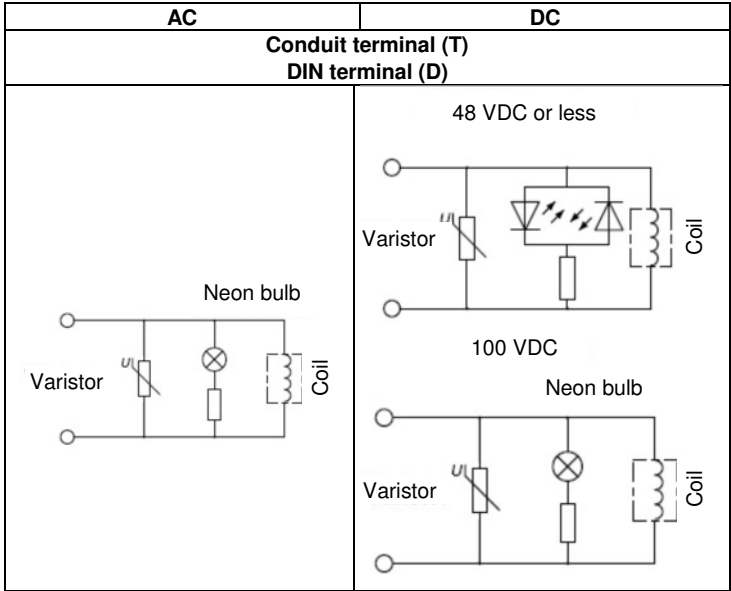
* Please take note that non-contact relays sometimes have built-in current protection.

3 Installation - continued

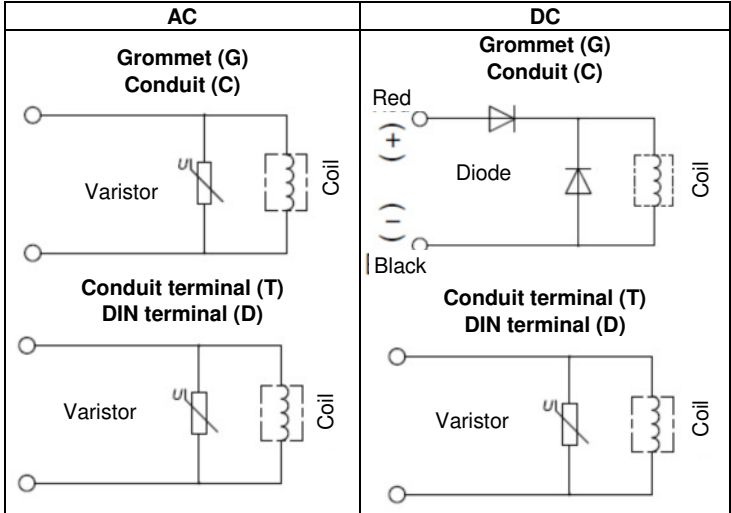
The percentage of leakage voltage that remains on the coil after de-energization should be kept under 20% in the case of an AC coil, and under 2% in the case of a DC coil, of the rated voltage.

3.8 Surge voltage suppression

3.8.1 With indicator light and surge voltage suppressor (Z)



3.8.2 With surge voltage protection circuit (S)



3.9 Using DIN connector

3.9.1 Disassembly

- 1) After loosening the screw ①, then if the housing ④ is pulled in the direction of the screw ①, the connector will be removed from the body of equipment (solenoid, etc.).
- 2) Pull the screw ①, and then remove gasket ②a or ②b.
- 3) On the bottom part of the terminal block ③, there's a cut-off part (indication of an arrow) ③a. If a small flat head screwdriver is inserted between the opening in the bottom, terminal block ③ will be removed from the housing ④. (Refer to)
- 4) Remove the cable gland ⑤ and plain washer ⑥ and rubber seal ⑦.

3 Installation - continued

3.9.2 Wiring

- 1) Pass the cable ⑧ through the cable gland ⑤, washer ⑥, rubber seal ⑦ in this order, and then insert them into the housing ④.
 - 2) Skin the cable ⑧ and crimp the crimped terminal ⑨ to the edges.
 - 3) Remove the screw with washer ③e. from the bracket ③e. (Loosen in the case of Y shape type terminal.) As shown in the below figure, mount a crimped terminal ⑨, and then again tighten the screw ③e.
- Note 1) Tighten within the tightening torque of 0.5 N·m ±15%.

3.9.3 Remarks

- a) Wiring can be carried out with bare cables. If so, loosen screw with washer ③e, put lead wires in bracket ③d and tighten the screw again.
- b) Maximum size of crimp-style terminal ⑨ should be as follows:
O-shaped terminal: 3.5 for lead wire of 1.25 mm² sectional area
Y-shaped terminal: 4 for lead wire of 1.25 mm² sectional area
- c) Cables ⑧ with outer diameters ranging from ø6 mm to ø12 mm can be used.

Note: For outer diameters between ø9 mm and ø12 mm, remove inner part of rubber packing ⑦ before use.

3.9.4 Assembly

- 1) Terminal box ③ connected with housing ④ should be reinstated. (Push it down until you hear the click sound.)
- 2) Putting rubber seal ⑦, plain washer ⑥, in this order into the cable introducing slit on the housing ④, then further tighten the cable gland ⑤ securely.
- 3) By inserting gasket ②a or ②b between the bottom part of the terminal box ③ and a plug on an equipment, screw in ① on top of the housing ④ and tighten it.

Note 1) Tighten within the tightening torque of 0.5 N·m ±20%

Note 2) The orientation of a connector can be changed arbitrarily, depending on the combination of a housing ④ and a terminal box ③.

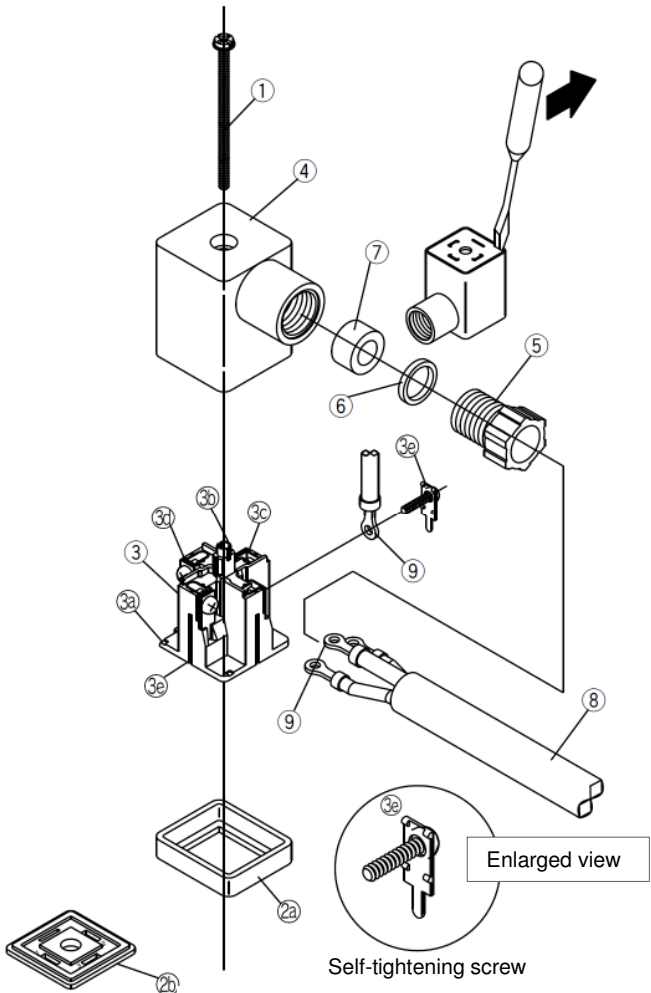


Figure 4

3 Installation - continued

3.9.5 Inside wiring DIN connector

DIN connector is connected inside as in the figure below. Connect to the corresponding power supply.

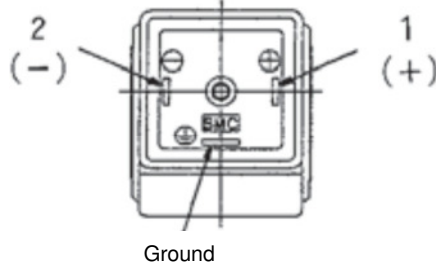


Figure 5

- Applicable cable O.D.: ø6 to ø12
Note) For those with an external measurement of ø9 to ø12, remove the inner portion of the ground gasket before using.
- Applicable crimping terminal:
The maximum size for the round terminal is 1.25 mm² -3.5 and for the Y terminal is 1.25 mm² - 4.

3.10 Continuous energizing time

Caution

If the valves are energized continuously for a long time, switch the valve at least once every 30 days and the operating time should not exceed 1400 hours (equivalent to 2 months) per year.
Cannot be used as an emergency shutoff valve. If the operating time exceeds 1400 hours, use a continuous duty type valve (VT317E).
Note that the valve should be switched at least once every 30 days in this case.
If the valve is used for special applications (e.g. emergency shutdown valve), please contact your SMC sales representative.

3.11 Manifold

Warning

When mounting a valve on the manifold base, the mounting orientation is decided. If it is mounted in the wrong direction, connected equipment may malfunction. Mount by referring to "Changing from N.C. to N.O".

Caution

- 1. Each valve is fixed to the manifold base with two M4 mounting screws. Tighten the screws evenly when re-mounting.
- 2. For mounting, tighten M4, or equivalent screws, evenly into the mounting holes of the manifold base.
Tightening torque of the mounting screw (M4): 1.4 N·m

3.12 Changing from N.C. to N.O. (Manifold)

Caution

Universal porting permits convertibility N.C./N.O. by a simple 180 degree rotation.
Mounting conditions for N.C. and N.O. are indicated below.

Exhaust port type	Valve	N.C.	N.O.
Common exhaust			
Individual exhaust			

Note: This product is delivered as N.C. valve. If N.O. valve is needed, remove mounting screws of the required valve and turn over the valve 180 degrees. (Ensure that there are O-rings fixed on 4 positions of the valve surface). Then, tighten the mounting screws to fix the valve to the manifold base.

4 Settings

4.1 Manual Override

Warning

Since connected equipment will operate when the manual override is activated, confirm that conditions are safe prior to activation.

4.1.1 Non-Locking push type

1. Push down on the manual override button (moulded black rubber) until it stops.
2. Hold this position for the duration of the check. (ON position).
3. Release the button and the override will re-set to the OFF position.

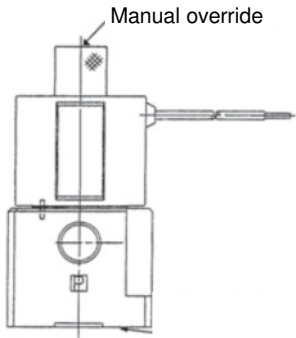


Figure 6

5 How to Order

V

T

317

-

1

D

-

02

-

Q

Body type

T	Body ported
0	For manifold

Note: For manifold option, refer to the catalogue for full specifications and precautions

Valve option

Nil	Standard type	Validated ◊
E*	Continuous duty type	
V*	Vacuum	

Voltage

1	100V AC (50/60 Hz)	Validated ◊
2	200V AC (50/60 Hz)	
3*	110V AC (50/60 Hz)	
4*	220V AC (50/60 Hz)	
5	24 VDC	
6*	12 VDC	
7*	240V AC (50/60 Hz)	

Thread type

Nil	Rc (PT)
F	G (PF)
N	NPT
T	NPTF

CE-compliant

Q

CE-compliant *

* Electrical entry: D/DO only

Port size

Nil	Without port (For manifold)
02	1/4 (8A)

Light/Surge voltage suppressor

Symbol	Electrical entry	G	H	C	T	D	Only electrical entry D Validated ◊
Nil		-	-	-	-	-	•
S (With surge voltage suppressor)		•	•	•	•	•	-
Z (With indicator light and surge voltage suppressor)		-	-	-	•	•	•

* DOZ, DOS are not available
* Only D and DZ are validated

Electrical entry

G	Grommet, 300 mm lead wire	-
H	Grommet, 600 mm lead wire	-
C	Conduit	-
T	Conduit terminal	-
D	DIN terminal (with connector)	•
DO	DIN terminal (without connector)	•

Validated ◊

Note: For other rated voltages, please consult with SMC

◊ Validated according to ISO 13849.

6 Dimensions (mm)

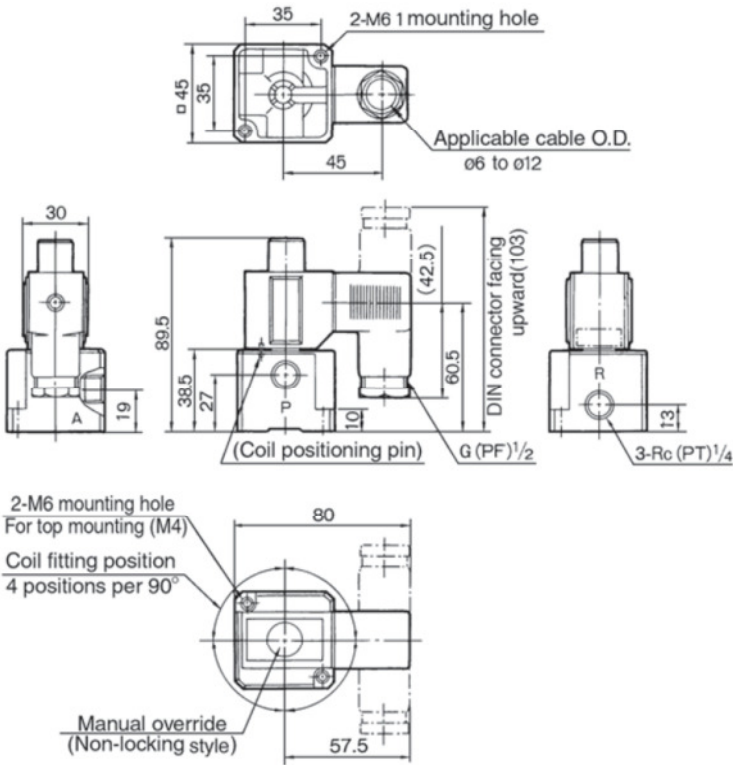


Figure 7 – DIN terminal

Note: Refer to the catalogue for other electrical entries and manifold dimensions.

7 Maintenance

7.1 General Maintenance

Warning

- Under no circumstances attempt to change the solenoid as this is an integral part of the valve and doing so will negate any such SMC warranty.

Caution

- Not following proper maintenance procedures could cause the product to malfunction and lead to equipment damage.
- If handled improperly, compressed air can be dangerous. Maintenance of pneumatic systems should be performed only by qualified personnel.
- Before performing maintenance, turn off the power supply and be sure to cut off the supply pressure. Confirm that the air is released to atmosphere.
- After installation and maintenance, apply operating pressure and power to the equipment and perform appropriate functional and leakage tests to make sure the equipment is installed correctly.
- If any electrical connections are disturbed during maintenance, ensure they are reconnected correctly and safety checks are carried out as required to ensure continued compliance with applicable national regulations.
- Do not make any modification to the product.
- Do not disassemble the product, unless required by installation or maintenance instructions.

8 Limitations of Use

8.1 Limited warranty and Disclaimer/Compliance Requirements

- The product used is subject to the following “Limited warranty and Disclaimer” and “Compliance Requirements”. Read and accept them before using the product.

- **Limited warranty and Disclaimer**
 - 1) The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first⁽¹⁾. Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
 - 2) For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided.
- This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3) Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.

⁽¹⁾ Vacuum pads are excluded from this 1 year warranty.

A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

- **Compliance Requirements**
 - 1) The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
 - 2) The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

Warning

Any use in an ISO 13849 system must be within the specified limits and application conditions. The user is responsible for the specification, design, implementation, validation and maintenance of the safety system (SRP/CS).

Caution

- **SMC products are not intended for use as instruments for legal metrology.**

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country.

Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

9 Contacts

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UK	SMC Pneumatics (U.K.) Ltd. Vincent Avenue, Crownhill, Milton Keynes, Buckinghamshire MK8 0AN, United Kingdom

SMC Corporation

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Specifications are subject to change without prior notice from the manufacturer.

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