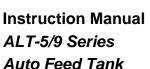


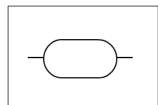
ORIGINAL INSTRUCTIONS





Refer to Declaration of Conformity for relevant Directives





The purpose of using ALT is as an oil tank for sending oil to the pneumatic

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.

- Refer to product catalogue, Operation Manual and Handling Precautions for SMC Products for additional information.
- Keep this manual in a safe place for future reference.

A Caution	Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
A 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

- · Always ensure compliance with relevant safety laws and standards.
- All work must be carried out in a safe manner by a qualified person in compliance with applicable national regulations.
- The compatibility of pneumatic equipment is the responsibility of the person who designs the pneumatic system or decides its specifications.

2 Specifications

2.1 Standard Specifications

2.1 Standard Specifications				
	Auto Feed Tank (Note 1)			
Model	ALT-5	ALT-5-IS-1	ALT-9	ALT-9-IS-1
		ALT-5-IS-2		ALT-9-IS-2
Port Size		Air:	1/4	
		Oil:	3/4	
Fluid	Air			
Proof Pressure	1.5 MPa			
Max. Operating Pressure	1.0 MPa			
Bowl Capacity (cm ³) (Note 2)	5000	5000	9000	9000
(Capacity between levels)	(4400)	(3400)	(7800)	(6000)
Recommended lubricant	Turbine c	il Class 1 (W	ith no add	itives), ISO
		VG:	32	
Ambient and Fluid	-5 to 60°C (No freezing)			
temperature				
Bowl Material	Metal (Carbon steel tubes for machine			
		struct	ure)	
Weight (kg)	12.6	13.2	26.0	26.6
Note 1) ALT E(0) IC 1, Cuitab a	n with floot do			

Note 1) ALT-5(9)-IS-1: Switch on with float down

ALT-5(9)-IS-2: Switch off with float down

Note 2) Capacity between levels: in the case of float switch equipped model, the capacity is measured in levels between the level gauge upper limit and the lower limit of the float switch detective range

Marning

Special products might have specifications different from those shown in this section. Contact SMC for specific drawings.

3 Installation

Marning

. Do not install the product unless the safety instructions have been read and understood.

3.1 Environment

♠ Warning

- Do not use in an environment where corrosive gases, chemicals, saltwater 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 in excess of the product's specifications.
- Do not mount in a location exposed to radiant heat that would result in temperatures in excess of the product's specifications.

3.2 Piping

A Caution

- Before connecting piping make sure to clean up chips, cutting oil, dust
- 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.

•	righten fittings to the specified tightening torque.		
	Thread	Appropriate Tightening Torque (N•m)	
	Rc1/4	12~14	
	Rc3/8	22~24	

3.3 Mounting

Marning

- Connect this product so that the inlet of air locate on cam handle side. Reverse connection prevents normal function from being obtained.
- Install this product vertically so that the drain exhaust face downwards. Installation facing upwards or horizontal will lead to malfunction.
- If the float switch Is attached, keep its contact capacity. The use beyond contact capacity will lead to malfunction of the float switch. The use within contact capacity means voltage less than AC50V or DC75V to 200V is also applicable but included into low voltage of EC directive.

Installation - continued

3.4 Lubrication

A 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, refer to catalogue for details.

4 How to Order

Refer to the catalogue for 'How to Order'.

5 Outline Dimensions (mm)

Refer to drawings or catalogue for outline dimensions.

6 Maintenance

6.1 General Maintenance

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
- Do not make any modification to the product.
- Do not disassemble the product, unless required by installation or

maintenance instructions.

- For addition of the oil, removal of cam handle is required. To remove the cam handle, first rotate the cam handle 90 degrees at least counter clockwise to stop supply of inlet pressure and make the pressure left in the tank exhausted. Then by giving additional counter clockwise rotation to the cam handle, the cam handle can be removed and be ready for supply of new oil.
- Do not fill the oil over the upper limit indicated.
- After filing the oil, tighten the cam handle until the collar at the lower part of the cam handle contacts the top cover.

7 Limitations of Use

8.1 Limited warranty and Disclaimer/Compliance Requirements Refer to Handling Precautions for SMC Products.

A Caution

Do not exceed any of the specifications laid out in section 2 of this document or the specific product catalogue.

8 Product disposal

This product should not be disposed of as municipal waste. Check your local regulations and guidelines to dispose this product correctly, in order to reduce the impact on human health and the environment.

Refer to www.smcworld.com or www.smc.eu for contacts.

SMC Corporation

URL: http://www.smcworld.com (Global) http://www.smc.eu (Europe) 'SMC Corporation, Akihabara UDX15F, 4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101

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