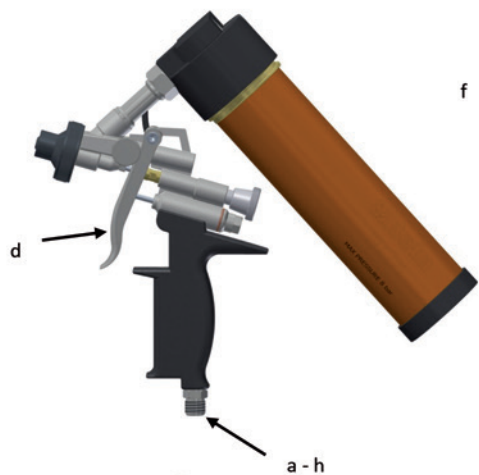




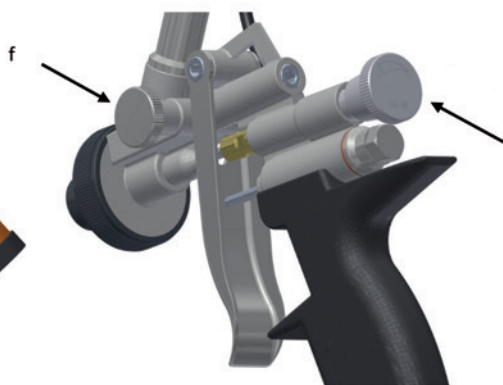
# **Beta**

## **1947M**

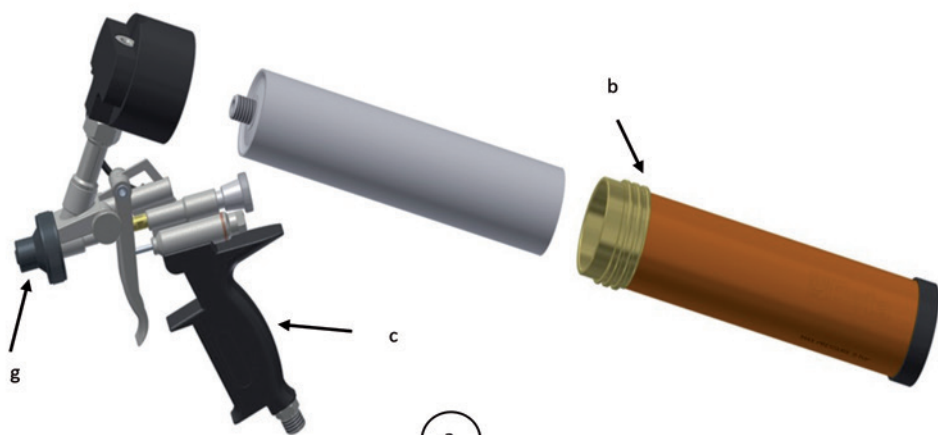
**Operation manual and instructions**



1



2



3

## OPERATION MANUAL AND INSTRUCTIONS FOR SPRAYABLE SEALER GUN MANUFACTURED BY:

BETA UTENSILI S.P.A.

Original documentation drawn up in ITALIAN.

### CAUTION






IMPORTANT! READ THIS MANUAL THOROUGHLY BEFORE USING THE PNEUMATIC TOOL. FAILURE TO COMPLY WITH THE SAFETY STANDARDS AND OPERATING INSTRUCTIONS MAY RESULT IN SERIOUS INJURY.

Store the safety instructions with care and hand them over to the users.

### PURPOSE OF USE

- **The air gun for extruding single-component sealants can be used for the following purposes:**
  - Spraying and extruding sealants, polymer and polyurethane cartridges, protective and soundproofing products in standard cartridges
  - Use of standard 310 ml plastic cartridges
  - The gun can also be used in open places exposed to water and air
- **The air silicone and sealant gun must not be used for the following purposes:**
  - The air sealant gun must not be used in environments containing potentially explosive atmospheres
  - The trigger must not be locked with adhesive tape, clamps and/or any other equivalent system
  - The air sealant gun must not be used with loose materials
  - No solvents and/or detergents based on halogenated hydrocarbons (Methyl Chloride, Dichloromethane, 1,2-Dichloroethane, Carbon Tetrachloride, Trichloroethylene, 1,1,1-Trichloroethane) may be used on the aluminium and/or galvanized parts of the gun, because chemical reactions, including oxidation, and, in the most extreme situations, explosive reactions, may occur; no substances other than those expressly set out in the list of permitted substances may be used.
  - The air silicone and sealant gun must not be used for any applications other than stated ones.

### WORK AREA SAFETY

- Beware of both surfaces that may become slippery due to the use of the machine and the danger of tripping over the air hose.
- While using the pneumatic tool for jobs performed high from the ground, take all necessary precautions, to eliminate or minimize risk to other workers, following the accidental falling of any tools (for example, isolation of the work area).
-  Do not operate the pneumatic tool in environments containing potentially explosive atmospheres, because sparks may be generated, which can ignite the dust or fumes.
-  Avoid contact with live equipment, because the pneumatic tool is not insulated, and contact with live parts can cause electric shocks.
-  Keep children and bystanders away from your workplace while operating the pneumatic tool. Distractions from other people can cause you to lose control over the pneumatic tool.

### PNEUMATIC TOOL SAFETY

- Do not point the air flow to yourself or other people. Compressed air can cause serious injury.
- Do not point the spraying flow of sealants to yourself or other people.
- Do not point the spraying flow of sealants to naked flames or other heat sources.
- Check the connections and the air supply lines. All units, couplers and hoses should conform to the product specifications in terms of pressure and air volume. Too low pressure impairs the function of the pneumatic tool; too high pressure can cause damage and/or injury.
- Do not bend or tighten any hoses. Avoid using solvents and sharp edges. Keep the hoses away from heat, oil and rotating parts. Immediately replace any damaged hose. A defective feed pipe may cause uncontrolled movements of the compressed air pipe. Raised dust or chips may cause eye injury. Make sure that the hose clamps are always secured firmly.

### PERSONNEL SAFETY

- Stay alert; watch what you are doing. Do not use the pneumatic tool while tired or under the influence of drugs, alcohol, or medication.
- **Always use the following personal protective equipment:**
  - eye protection
  - hearing protection
  - safety shoes
  - protective gloves against physical agents
- Make sure you are in a safe position, keeping proper balance at all times. A safe working position and a proper body posture enable better control of the pneumatic tool in unexpected situations.
- Do not directly inhale the exhaust air, and prevent it from getting into your eyes. The exhaust air of the pneumatic tool can contain water, oil, metal particles and impurities, which may cause hazards.


### **AIR SEALANT GUN USE AND CARE**





- Use clamping devices or a vice to secure and support the workpiece. Holding the workpiece by hand or against your body will not allow for safe operation of the pneumatic tool.
- Do not overload the pneumatic tool. Use the pneumatic tool intended for your work only.
- Always check that the machine is free from defects. Do not use a pneumatic tool that has a defective On/Off switch. A pneumatic tool that can no longer be stopped or started is dangerous and must be repaired.
- Disconnect the air supply before making adjustments on the air gun, changing accessories, or placing the pneumatic tool aside. This safety measure prevents accidental starting of the pneumatic tool.
- Store idle pneumatic tools out of the reach of children. Do not allow persons unfamiliar with these instructions to operate the pneumatic tool.
- Maintain the pneumatic tool with care. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the operation of the pneumatic tool. Have damaged parts repaired before using the pneumatic tool.
- Check that the air gun is in good condition; make sure that no parts are damaged.
- Make sure that no other people are near the tool.
- Only use accessories suitable for the required job, like:
  - Standard plastic cartridges for applying single-component sealants
- Do not modify the air gun. This can reduce the effectiveness of safety measures and increase operator risk.
- Have the pneumatic tool repaired only through a trained repair person. Only use original replacement parts. If any polyurethane sealant is used, the cartridge should not be left in the gun longer than 2-3 days (rapid hardening material, especially in the presence of humidity).
- If any polymer sealant is used, the cartridge can be left in the gun, provided that its condition is checked on a weekly basis.
- When the gun is not in use, leave a cartridge in the tube, to prevent the product being used from hardening.


### **AIR SEALANT GUN SAFETY**



- Make sure that the nameplate is readable; get a replacement nameplate from the manufacturer, if need be.
  - Operators and maintenance personnel should be physically able to handle the weight and power of the pneumatic tool.
  - When using the pneumatic tool over prolonged periods of time, the operator may experience discomfort in the hands, arms, shoulders, or neck area. Adopting a comfortable posture and changing posture may help avoid discomfort and fatigue.
- ⚠ Dust and fumes hazards: Depending on the type of material being worked, the fumes generated while operating the pneumatic tool can cause diseases in humans. An appropriate environmental hygiene survey is required to determine the type and degree of protection of the personal protective equipment to use for the respiratory tract.
- ⚠ If a specially conducted survey suggests that the daily exposure to vibration generated from the pneumatic tool exceeds the limit value under the regulations in force in the respective country, anti-vibration gloves must be worn.
- If you notice that the skin of your fingers becomes numb, turns white, tingles or hurts, stop working with the pneumatic tool. Inform your employer and seek medical advice.
  - Hold the pneumatic tool with a secure yet not too firm grip, compliant with the required hand reaction forces.
  - Never carry the pneumatic tool by the hose.

## PERSONAL PROTECTIVE EQUIPMENT TO WEAR WHILE OPERATING PNEUMATIC TOOL

 Failure to observe the following warnings may result in physical injury and/or disease.

	ALWAYS WEAR EYE PROTECTION WHILE OPERATING PNEUMATIC TOOL OR PERFORMING MAINTENANCE JOBS
	ALWAYS WEAR HEARING PROTECTION WHILE OPERATING PNEUMATIC TOOL
	ALWAYS WEAR PROTECTIVE GLOVES AGAINST PHYSICAL AGENTS WHILE OPERATING PNEUMATIC TOOL
	ALWAYS WEAR SAFETY SHOES

 Additional personal protective equipment to wear according to the values found in the environmental hygiene/risk analysis survey if the values exceed the limits under current regulations.

	WEAR PROTECTIVE MASK AGAINST PHYSICAL AGENTS
	WEAR PROTECTIVE HELMET

### TECHNICAL DATA

AIR INLET	1/4" GAS
MAXIMUM PRESSURE	8 bar
MINIMUM INTERNAL HOSE SIZE (Ø)	6.0 mm
MEAN AIR CONSUMPTION	200 - 300 l/min
WEIGHT	1.2 kg
CARTRIDGE CAPACITY	310 ml
NOISE (ISO 15744)	
SOUND POWER LEVELL	L <sub>WA</sub> = 95.2 dB
SOUND PRESSURE LEVEL	L <sub>pA</sub> = 84.2 dB

### KEY TO SYMBOLS

- a: air inlet 1/4" GAS
- b: cartridge tube
- c: handle
- d: gun trigger
- e: sealant supply regulating knob
- f: airflow regulating knob
- g: nozzle ring nut
- h: oil lubrication

### INSTRUCTIONS

#### Air supply connection

For correct use of the pneumatic tool, always keep to a maximum pressure of 8 bar, as measured at the tool inlet. Feed the pneumatic tool with clean, condensate-free air (**picture 1-a**). Excessively high pressure or humidity in supply air results in shorter life for the mechanical parts and may damage the tool.

### USE

#### Start / Stop

To start the air gun, press the trigger (**picture 1-d**), and keep it pressed during the job to be performed. Releasing the trigger will cause the pneumatic tool to stop quickly, thereby preventing silicone or sealants from being let out. When the gun stops, place it in a firm and safe position.

### **Cartridge installation/replacement**

To use the air gun, take the following steps:

- Release and remove the cartridge tube (picture 3-b);
- Fit in the sealant cartridge, being careful to cut the spout as little as possible and horizontally, leaving as much thread as possible, for increased tightening while the cartridge is being screwed onto the gun. Reinstall the tube and lock it by hand;
- Use the regulating knob in the back of the gun to regulate sealant supply:
  - Screw the knob clockwise to gradually close the airflow; this will result in reduced atomization.
  - Unscrew the knob anticlockwise to gradually open the airflow; this will result in increased atomization.
- Use the regulating knob in the side of the gun to adjust the airflow, so that a proper amount of product can come out:
  - Screw the knob clockwise to gradually reduce product supply.
  - Unscrew the knob anticlockwise to increase product supply.

**During the regulating phase, do not loosen the regulating knobs completely, to prevent them from coming out abruptly due to air pressure (picture 2-e-f).**

Before working on any part, some spraying tests should be performed on a sample surface, to produce the required effect; then take the following steps:

- Hold the gun firmly; press the trigger by hand and proceed with sealant dispensation;
- When the trigger is released, sealant dispensation will stop almost immediately;
- Replace the cartridge when exhausted as follows: loosen the tube; remove the exhausted cartridge and replace it with a new one;
- Before installing the new cartridge, clean and remove any sealant residues;
- To clean and/or replace the nozzles, loosen and remove the front ring nut.

To perform extrusion, install the plastic nozzles supplied with the gun.

During extrusion, the regulating knob in the back of the gun and the nozzle ring nut must be firmly tightened.

**Always disconnect the air supply before making adjustments or installing the cartridge. This precaution will prevent the pneumatic tool from being accidentally started.**

### **Lubrication/Greasing**

The pneumatic tool must be connected to a filter-lubricator unit (we recommend Beta item 1919F1/4) provided with an air-oil microfog mixer, set at two drops per minute. This will result in a high-performing tool and wear-resistant mechanical parts.

If lubrication is not provided to the line, oil ISO 32 must be periodically poured into the pneumatic tool, through the air supply hole (picture 1-h).

### **CLEANING**

Always disconnect air supply before cleaning the gun.

To clean the gun, the operator should only use diluents free from halogenated hydrocarbons, and should not use highly acid or alkaline substances. Take the following steps:

- Remove the cartridge from the tube;
- Let the amount of solvent required to clean the internal ducts into the tube (always check product compatibility and the safety data sheets of the solvent being used);
- Leave in for a few minutes;
- Close the bottom and connect air supply;
- Spray the solvent into a collection container; repeat the operation until the gun becomes completely clean.

**⚠ Make sure that the air-product regulating knobs are completely closed, to prevent the solvent from being atomized in the surrounding environment.**

- Do not completely immerse the gun in the solvent; clean the gun with either a brush or a cloth;
- Clean the extrusion nut and the nozzle with a brush (soaked with solvent) and dry them with a cloth, until all the product residues have been removed.

Periodically check the gaskets for tightness, as they might get damaged or worn out in time.

**NB: Solvents must be disposed of in an environmentally-friendly manner in accordance with the laws in force in your country."**

### **MAINTENANCE**

Maintenance and repair jobs must be carried out by trained personnel only. For such jobs, you can contact Beta Utensili S.P.A.'s repair centre through your Beta dealer.

### **DISPOSAL**

The pneumatic tool, accessories and packaging should be sent to a waste disposal centre, in accordance with the laws in force in your country.

### **WARRANTY**

This tool is manufactured and tested in accordance with current EU regulations, and is covered by a 12-month warranty for professional use or a 24-month warranty for nonprofessional use.

We will repair any breakdowns caused by material or manufacturing defects by fixing the defective pieces or replacing them at our discretion.

Should assistance be required once or several times during the warranty period, the expiry date of this warranty will remain unchanged.

This warranty will not cover defects due to wear, misuse or breakdowns caused by blows and/or falls. In addition, this warranty will no longer be valid if any changes are made, or if the pneumatic tool is forced or sent to the customer service in pieces.

This warranty explicitly excludes any damage to people and/or things, whether direct or consequential.