

Operating Instruction

Original language: german

Steam gun ST-4000

Product code: 204000500

ST-4000








Vers. March 22

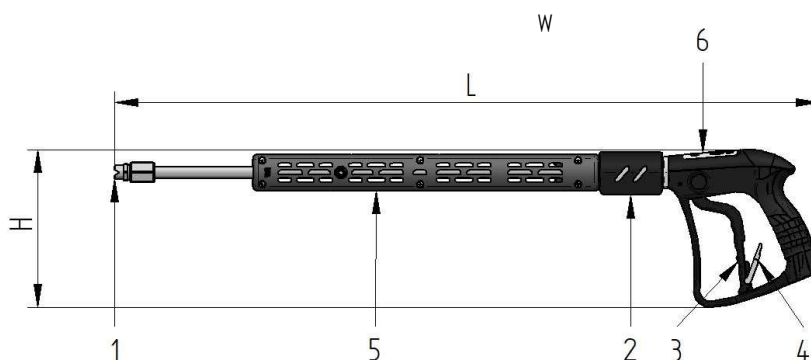
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Technical data

Maximum permissible pressure	20.0bar / 2.00 MPa
Steam temperature permanently	max. 200°C
Ambient temperature	up to max. 60°C
Nozzle size	250 (70°C)
Inlet connector	G3/4 fm
Outlet connector	3/8" NPT fm
Weight	1.073 kg
Dimensions (W / H / D)	769 x 172 x 45
Max. size of solids	50 µm

Abbreviations and symbols	
fm; m	female thread; male thread
BSP	Whithworth pipe thread acc.to DIN ISO 228; ident. BSP = British Standart Pipe
NPT	National Pipe Thread
kg	kilogramme

  	The steam gun is designed for permanent use up to approx. 200°C. If the water temperature exceeds 45°C, the user must wear suitable protective clothing, for example, in the form of gloves, shoes and goggles. The local safety regulations currently in force should always be observed.
 	Please read these Operating Instructions carefully before using the equipment! Keep the Operating Instructions in a safe place for future use or for the next user! These Operating Instructions were prepared with great care. However, SUTTNER GmbH cannot be held responsible for any possible errors in the Operating Instructions or for any consequences arising thereof!



- 1 Outlet
- 2 Inlet
- 3 Trigger level
- 4 Safety latch
- 5 Insulation
- 6 Rating plate

Description

The Steam Gun

The field of application of the ST-4000 is in professional steam cleaning. The handle housing is made of impact-resistant plastic. The valve housing and connectors are made of anti-corrosion material. The trigger lever is equipped with a safety latch. The lance hose has a 400 mm insulation.

Intended use

The steam gun is designed for the application of wet and dry steam and hot water. All safety regulations and rules for high-pressure washers with steam apply, e.g. DIN EN 60335-79-2.

Operate the steam gun only within the pressure, flow rate and temperature ranges indicated. Before starting work, check the values on the steam generator and adjust these if necessary.



Using and dispensing flammable, explosive, caustic or toxic substances is forbidden!

The steam gun may not be used with abrasive substances.

The steam gun must only be used in a technically perfect condition, unmodified in any way, for the purpose intended, in the awareness of safety requirements and potential hazards in compliance with these Operating Instructions. Only adults trained in handling steam cleaning equipment may use the steam gun.

To avoid damaging the steam gun, install a fine filter with a recommended mesh size of 50 into the water inlet to the steam gun.

Please also comply with the operating instructions for equipment and accessories connected to the steam gun and with the applicable regulations for cleaning agents.

Normative references

- The product is classed as a pressure-maintaining component within the terms of Pressure Equipment Directive 2014/68/EU. Due to the operating parameters, it comes under the scope of Article 4 / Paragraph 3 of this guideline ("good engineering practice") and therefore no Declaration of Conformity and CE marking are allowed!
- The product must not be installed in equipment complying with the Pressure Equipment Directive 2014/68/EU.
- The product is a standard part within the terms of Machinery Directive 2006/42/EC!

Symbols and their meanings



Hazard!

If these instructions are not followed there is a danger of physical injury, danger to life and material damage!



Please comply with the Operating Instructions!

Incorrect operation can lead to severe injury. Read the Operating Instructions before using the equipment.



Wear safety gloves!



Wear protective goggles!



Risk of injury from escaping steam!

Do not aim the outlet nozzle at humans or animals. Do not clean any objects containing harmful substances, which conduct electricity or which are fragile!



Description of imminent hazard and failure to avoid hazard will result death

**WARNING****Description of hazard and possible resulting injuries or death.****CAUTION****Description of hazard that could result in minor or moderate injury.**

For your safety

This Suttner product is state of the art and complies with generally recognised health and safety regulations. Due to the high pressures and temperatures nonetheless there is the danger of material damage and injury for users and other persons. Please comply with these Operating Instructions at all times and the relevant regulations for liquid jet sprayers.

For details regarding personal protective equipment, refer to the German accident prevention regulations "Personal protective equipment" (VBG101, at present draft). Personal protective equipment includes for example overalls, head protection, easy-grip protective gloves and non-slip boots, metatarsal foot protection, respiratory protection, ear protection, eye or face protection.

Do not use the equipment if persons without protective clothing are within range.

**DANGER****Risk of injury from hot steam!**

- Before starting work, check the high-pressure system (spray equipment, hoses, screw connectors, etc.) for signs of leakage and damage.
- Cease operation immediately if any leakage or malfunctions occur.
- The steam gun trigger lever must not be jammed in the open position or prevented from closing in any other manner.
- Do not aim the steam nozzle at yourself or other living creatures, not even to clean clothing or footwear.
- Never place your hands in the way of the exiting steam jet.
- Do not clean any objects containing harmful substances, which conduct electricity or which are fragile (e.g. glass).
- Damage may occur when aiming steam on temperature-sensitive surfaces. Keep a minimum distance. This minimum distance is dependent on the set steam and surface to be cleaned.

**CAUTION****Risk of burning or scalding due to hot steam!**

If the water temperature exceeds 45°C, the user must wear suitable protective clothing such as gloves, shoes and safety goggles.

**WARNING****Risk of personal injury and material damage due to displaced particles!**

During steam cleaning, particles of dirt and other loose particles are displaced from the surface being cleaned. Due to the energy of the steam jet, these particles are vastly accelerated and may lead to material damage and personal injury.

Assembly

- Switch the steam generator off before carrying out assembly work on the high-pressure system.
- Secure the steam generator against being unintentionally switched on.
- Turn the water supply off.
- Ensure that system sections and lines to be opened are not under pressure.
- Seal the screw connectors in accordance with your intended use with an appropriate sealant such as Teflon sealing tape or a liquid sealant (see R+M Catalogue, Chapter 06, Adhesives and sealing materials).
- When assembling the lance and hose, secure the steam gun on the hexagon to prevent it turning and tighten the connectors to 25 Nm.
- Connect the high-pressure hose from the steam generator to the steam gun inlet.
- if necessary, mount suitable accessories on the outlet side.

Modification

No modifications of any kind are to be made to the steam gun!

Operation

Operate the spray gun only within the pressure, flow rate and temperature ranges indicated. Before starting work, check the values on the high-pressure generator and adjust these if necessary. After you have read the safety instructions, the spray gun is remarkably easy to use:

- Hold the spray unit firmly at the provided hand grip areas and make sure your footing is secure.
- To activate the spray gun, flip in the safety latch.
- Press the trigger lever to start spraying.
- Release the trigger lever to close the valve in the spray gun. The spray gun remains under pressure.
- At close of work: Switch off the high-pressure washer. Actuate the spray gun to release any residual pressure.
- To prevent the valve in the spray gun from inadvertently opening again, flip out the safety latch.
- Do not leave the spray gun unattended when the high-pressure generator is switched on.

Transportation and storage

Please ensure that the spray gun is cleaned and protected from contamination during transportation and storage. Protect the spray gun against frost. The effect of frost can damage the gun so badly that it no longer works perfectly.

Cleaning

To clean the exterior, use a lint-free cleaning cloth and do not use any aggressive cleaning agents.

Maintenance

CAUTION Important safety instructions!

Assembly, maintenance and repair work may only be carried out by persons trained in maintenance and repair work on high-pressure systems. Use only spare parts approved by Suttner GmbH. Only use high-pressure components (hoses, connectors, etc.) approved for the respective pressure and temperature range. Every year, check that the spray gun is safe to use. Arrange to have any defects immediately rectified by an expert.

- Every year, check that the steam gun is safe to use. Arrange to have any defects immediately rectified by an expert.
- Are the markings and inscriptions legible?
- Does the steam gun close automatically?
- Does the safety latch work?
- Does the steam gun show signs of mechanical damage?

After max. 1000 operating hours or one year: Check valve parts (seal seat, O-rings, support rings, ball, piston rod, pressure piece) for damage and if necessary replace completely with a Suttner repair kit.

Disposal



Please dispose of old equipment in an environmentally friendly manner.

Old equipment contains valuable recyclable materials which should be salvaged for recycling. Please therefore dispose of old equipment at suitable collection points.

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