

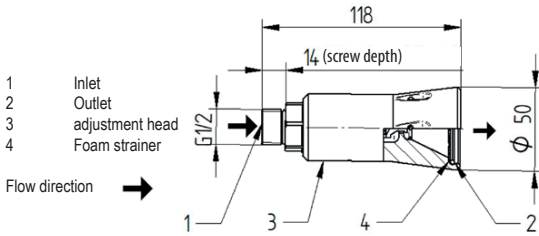
Operation manual

The low-pressure foam head ST-75.3

Item number: 200 075 900



The choice of perfection



The user must wear suitable protective clothing, for example in the form of gloves, shoes, safety glasses, hearing protection and respiratory protection. In principle, the currently valid local safety regulations must always be observed.



Read these operating instructions thoroughly before using the device!

Please keep the operating instructions carefully for later use or subsequent owners!

This operating manual was created with the greatest care. However, SUTTNER GmbH cannot accept any liability for any errors in these operating instructions and their consequences!

Description

The foam head is intended for dispensing cleaning foam. To create a high-quality cleaning foam, you need a water-chemical mixture with a foamable cleaning chemical.

The low-pressure foam head ST-75.3 is one of the active foam nozzles, i.e. the foam head itself sucks in air, mixes it with a water-chemical mixture and delivers the resulting foam.

The emerging foam cone is infinitely adjustable (from point to cone jet). All components that come into contact with the media are made of corrosion-resistant materials. The housing is made of impact-resistant plastic.

Use an injector ST-160.3 to create a water-chemical mixture.

Processing flammable, explosive, corrosive or toxic substances is prohibited!

The low-pressure foam head must not be operated with abrasive substances.

To avoid damage to the LP foam head, install a fine filter with a recommended mesh size of 50 µm in the water supply to the water pressure booster system.

Intended Use

- The low-pressure foam head is intended for producing foam only.
- The LP foam head is intended for use on water pressure boosting systems (e.g. centrifugal pumps, high-pressure cleaners).
- All components of the system must be coordinated with one another. The component with the lowest values (pressure, temperature, etc.) determines the maximum possible load on the system.
- The ND foam head is only approved for use with Group II fluids in accordance with EGV 1272/2008. This can be, for example, water and diluted commercially available cleaning or disinfecting agents. All safety regulations and regulations for high-pressure cleaners such as DIN EN 60335-79-2 and DIN EN 1829-1 must also be followed.

Technical data	
Maximum permissible pressure	25 bar / 2,5 MPa
Minimal pressure	3 bar / 0,3 MPa
Maximum volume flow	25.0 l/min
Water temperature, permanent	max. 80 °C
Ambient temperature	max. 60 °C
inlet connection	G1/2 M
Material inlet	POM
Weight	0.200 kg
Dimensions (W/H/D)	118 x 50 x 50
Max solid size	50µm
Nozzle size	variable



This Suttner product corresponds to the state of the art and the recognized safety regulations. Due to the high pressures and temperatures, there is still a risk of property damage and injury to users and other people. Be sure to follow these operating instructions and the relevant regulations for liquid jets.

Regarding personal protective equipment, see the accident prevention regulations "Personal Protective Equipment" (VBG101) currently draft). Personal protective equipment includes: B. Protective suits, head protection, non-slip protective gloves and non-slip boots, metatarsal protection, respiratory protection, hearing protection, eye or face protection.

Do not use the device when people without protective clothing are within reach.



Risk of injury from splashing medium!

- Before starting work, check the pressure boosting system (spray device, hoses, screw connections, etc.) for leaks and damage.
- Stop operation immediately if leaks or malfunctions occur.
- Do not point the exit at yourself or other living beings. Not even to clean clothes or shoes.
- Never reach into the emerging jet.
- If you work with cleaning agents, read and observe the safety data sheets of the cleaning agent manufacturers.



Danger of burns and scalding from hot media!

If you work with operating and auxiliary materials whose temperature exceeds 45° C, do not touch any uninsulated areas.

- Put on protective gloves!

Danger of falling due to the emerging foam jet!

The emerging jet creates a recoil force on you.

- Make sure you stand securely and hold the spray gun or lance firmly with both hands.
- Do not use spray equipment on slippery floors or ladders.
- Protect yourself against falling on scaffolding.



Aerosol formation!

Foam and disinfectants can create an aerosol!

- To avoid inhalation, wear suitable respiratory protection!
- Ensure adequate ventilation



Noise emission!

The emerging foam creates hearing-damaging noise!

- To avoid hearing damage, wear suitable hearing protection

Scope of delivery

The low-pressure foam head ST-75.3 is delivered ready for use.

Modification

Modifications of any kind to the low-pressure foam head are not permitted!

Operation

By turning the adjustment head, the following jet shapes can be created:

- funnel-shaped foam jet (> ø 20; injector in suction mode)
- funnel-shaped water jet (< ø 20; e.g. for rinsing – NO injector operation)
- point-shaped water jet (< ø 20, e.g. for rinsing – NO injector operation)



User instructions

Foreign particles must not get into the foam head during assembly and operation. The function of the foam head can be impaired by hemp, Teflon tape or other sealants.

During assembly, ensure that the maximum tightening torque is not exceeded..

- Switch off the water pressure booster system before carrying out any assembly work on the system.
- Secure the water pressure booster system against being switched on unintentionally.
- Turn off the water supply.
- Make sure that system sections and lines to be opened are depressurized.
- A seal is integrated. No further seals are necessary.
- Tighten screw connections in the HP range with 20 Nm
- Install the LP foam head taking into account the flow direction
- Make sure that after installing the low-pressure foam head in a machine/system, the device complies with the requirements of the Machinery Directive!



Maintenance

Installation, maintenance and repair work may only be carried out by people who have been trained in maintenance and repair work on water pressure boosting systems. Only use spare parts approved by Suttner GmbH. Only use high-pressure components (hoses, couplings, etc.) that are approved for the respective pressure and temperature range.

- Is the foam strainer dirty?
- Check annually whether the foam head is in a safe condition!
- Is the foam head tight?
- Does the foam head show any mechanical damage?

Clean/change foam strainer

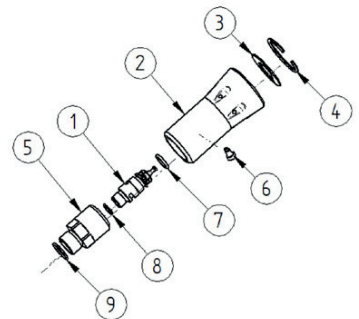
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1. Remove the wire snap ring (4) using a suitable tool.
2. Clean the foam sieve (3) under warm running water.
3. Insert the cleaned foam sieve (3) again.
4. Place the wire snap ring (4) back into the groove provided.

Replace O-rings

Installation, maintenance and repair work may only be carried out by people who have been trained in maintenance and repair work on water pressure boosting systems. Only use spare parts approved by Suttner GmbH. Only use high-pressure components (hoses, couplings, etc.) that are approved for the respective pressure and temperature range.

1. Loosen the driver screw (6).
2. Pull the adjustment head (2) from the hollow shaft (1).
3. Remove the O-rings (7+8+9) and replace them.
4. Push the adjustment head back onto the hollow shaft (1).
5. Put the driver screw back in and screw it hand-tight.



After each use with sticky or impure fluids, rinse the foam head with clean water

Weekly: Check the foam strainer

After at least 1000 operating hours or one year or, for hot water (over 70°C) and chemical use, after 500 operating hours or 6 months: Check O-rings and foam strainer for damage and, if necessary, replace them completely with a Suttner repair kit.

After no later than 3000 operating hours or 3 years or for hot water (above 70°C) and chemical use after 1500 operating hours or 18 months: Completely replace O-rings and foam sieve with Suttner repair kit.

Troubleshooting

Problem	Possible Cause	Solution
No foam	Foam sieve is clogged	Clean the foam strainer
No foam, just water	Foam container is empty (injector)	Refill the foam detergent container
	Cleaning agent does not contain foaming agents (injector)	Mix foaming agent into the detergent
	Foam head is contaminated	Clean the foam head
	The foam agent dosage is too low (injector)	Increase the dosage
	The water is too hot	Turn off the hot water generator. The cleaning water must not be warmer than 70°C
	Check valve is blocked (injector)	Check the check valve
	Suction hose is kinked (injector)	Lay the suction hose straight
	Check the setting of the foam head	Turn the adjustment head into the correct position
	Water pressure is too low	Increase water pressure



Please dispose of old devices in an environmentally friendly manner.

Old devices contain valuable recyclable materials that should be recycled. Please dispose of old devices at appropriate collection points.