

MONRO-JET®

Instruction Manual.

Before every initial operation of the MONRO-JET® the following steps must be checked:

- All pipes must be clean on the inside.
If necessary, lances and hoses must be rinsed
- The rotor (C) must be able to move freely inside the nozzle
- Check: If you shake the nozzle, a soft tinkle should be heard
- Front cover (A) and nozzle body (D) of the MONRO-JET® must never be disassembled, a good fastening must be checked regularly

Initial Operation

- Hold the lance in a downward pointing position
- Progressively and slowly build up pressure
- In general, the distance between the MONRO-JET® and the surface to be processed is longer than with a multi-jet nozzle
- Start with an approximate distance of 20 – 30 cm to the surface to be processed
- Find the ideal distance by moving the MONRO-JET® slowly closer to the surface

Possible Malfunctions of the MONRO-JET® during the Process

- Vast variations of speed in rotation
- The water cone is not uniform or hazy
- Very strong vibrations

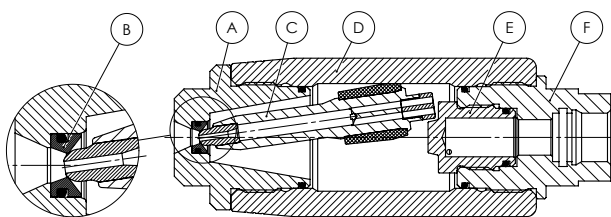
As soon as you notice one of the occurrences mentioned, instantly stop the process and check the rotor, the seat and the inside of the nozzle body for damage.

Disassembling and reassembling of the MONRO-JET® is to be conducted according to page 2 of the instruction manual.

Measures of Precaution in Case of Work Interruption

- Never leave the lance and the MONRO-JET® lying on the ground or in the water
- Never lean the lance against a dripping wall

MONRO-JET® F1, F2, F25



Safety Instructions

1. Training

It is essential that only properly trained personnel works with high pressure devices. The personnel needs to be trained according to the country's specific regulations, and must be instructed by the employer about the dangers concerning high pressure devices.

2. Measures in Case of Danger

- In case of danger, intervention must be ensured at all times, for the safety of the engaged personnel, through organizational measures.
- The extraordinary risk of injury must be considered. With convenient means (e.g. with a card to be carried around by the operator), the doctor must be advised that the injury stems from the exposure to high pressure jets.
- Blood can be influenced bacteriologically and needs to be examined by the doctor.

3. Handheld Jet Devices

- The device operator's workplace must be appropriate for working with high pressure devices.
- It is prohibited to work with high pressure devices while standing on a ladder.
- The device operators must not absorb more than 250N of reacting force in the longitudinal axis of the jet device. If the pressure is higher than 150N, the employment is only allowed with body support.
- The pressure engraved by the supplier corresponds to the maximum pressure with which MONRO-JET® can be operated.
- The operating lever of the manually guided jet device must not be blocked in the switched-on position.

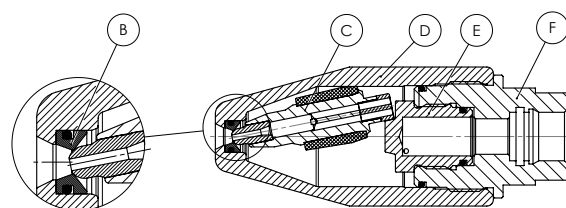
4. Health Protection

Working within 10 m of the water jet, hearing protection and appropriate protective clothing must be worn.

5. General Rules of Safety

Observe the rules No. 6505, edition 7.91, on the operation of high pressure waterjet devices of the Federal Coordination Commission for Occupational Safety and Health (EKAS) (only valid for Switzerland). Observe Directive EN 809, VDMA 24284 + 24292, as well as UVV 16.2. (Only valid for Germany)

MONRO-JET® F3, F4, F6



Disassembling and Assembling of the Seat (B)

- Before opening the MONRO-JET®, cleanse it with running water.
- The nozzle body (D), together with the front cover (A) is unscrewed from the inlet cover (F).



Unscrew the body by hand.



Always hold the nozzle vertically. Carefully remove the rotor.



Push out the seat with our assembly tool. If the seat cannot be pushed out with moderate force, place the nozzle on a clean surface and use a rubber mallet to drive it out carefully.

Reassembling of the Complete Nozzle

- Rinse and cleanse the interior and the thread with clear water. Dry the interior.
- Insert a new and greased seat (B) with the same assembly tool.



Place the seat upon the assembly tool.



Place the body upon the tool and insert the seat with light pressure until the lower latch is reached.

- Clean the thread at the seat and the cover, check the O-ring.



Always clean the threads at the cover and the body with a soft brush.



Check the O-ring for any damage.

- Place the rotor (C) into the nozzle body (D) / front cover (A). (rotor with its tip down inside the seat).



Place the rotor with its point downward inside the body. Do not drop it.



Generously grease the thread and the O-ring.

- Hold the lance obliquely downward. Check that the rotor tip is resting on the seat.



Screw the nozzle body upon the inlet cover. If you hear any scratching sounds or feel it jamming, stop immediately, carefully screw the body backwards, clean and grease it once more.