



## Pressure tubes

The CLOUTH-AIRFLEX® 100 and CLOUTH-AIRFLEX® 230 are pressure tubes for pneumatic doctor blade holders.

Take these precautionary measures to prevent injuries.



### Safety instructions

- Only authorised specialist staff may work on pressurised systems!
- Put up a notice, switch the compressed air supply off and secure to prevent an unauthorised restart or inadvertent start-up.
- These safety instructions apply to handling the CLOUTH-AIRFLEX® pressure tubes. If further safety instructions apply in the place of use, they must be implemented.

### CLOUTH-AIRFLEX® 100



Robust, smooth, red outer cover  
High abrasion resistance  
Weatherproof  
Resistant to rot and mould  
Good ozone and UV resistance  
Dirt-repelling

#### Version, technical data

Fabric: 100% polyester, circular-woven  
Inner: High quality, oil and petrol-resistant, fully synthetic rubber mixture  
Outer: High quality nitrile rubber  
Silicone coated

Material colour	Red
Inner diameter	25.4 mm / 28.0 mm
Heat resistance	Up to max. 100°C
Linear expansion	5%
Lateral expansion	5%
Working pressure	max. 6 bar
Weight	160g/m / 165g/m

### CLOUTH-AIRFLEX® 230



Good slip properties  
High tensile strength and tear resistance  
High abrasion resistance  
Weatherproof  
Resistant to rot and mould  
Dirt-repelling

Fabric: 100% glass silk, braided  
Inner: Special silicone  
Outer: Blue outer cover made of silicone-coated glass silk

Material colour	Blue
Inner diameter	25.4 mm / 28.0 mm
Heat resistance	Up to max. 230°C
Linear expansion	5%
Lateral expansion	5%
Working pressure	max. 6 bar
Weight	270g/m / 330g/m



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### Proper use

The CLOUTH-AIRFLEX® pressure tubes are used for pneumatic doctor blade holders in the paper and steel industries.

The different pressure tubes affect the doctor blade contact pressure for applying, removing and varying the contract pressure.

When the CLOUTH-AIRFLEX® is charged with compressed air, the cover plate pivots and the doctor blade is applied to the roller body in a linear manner.

The specifications for the pressure and temperature of the pressure tubes are maximum limits.

Significantly higher wear must be expected in the event of abrasive media. All specifications regarding resistance only apply to the material for the tube types specified here.

The CLOUTH-AIRFLEX® pressure tubes are only permitted to be used with the tube connection systems/ADAPTER-KIT from Joh. Clouth GmbH.

### Foreseeable misuse

- The CLOUTH-AIRFLEX® pressure tubes may only be used in accordance with their proper use.
- Operation without or with insufficient protective equipment.

### Delivery, storage and transport

- Check the delivery for completeness and external integrity using the delivery note. In the event of transport damage, contact us immediately.
- In order to ensure the longest possible service life and therefore to ensure that the CLOUTH-AIRFLEX® can be used for a long time, proper storage and handling is extremely important. Pressure tubes should therefore be stored in dark, cool rooms (not below -10°C), flat, without tension, not bent or pressed down on and not in stacks. Avoid direct sunlight or UV radiation.
- Protect the CLOUTH-AIRFLEX® from external force (knocks, impacts, cuts) during transport.

### Installation

The pressure tubes must be installed by people who have been explicitly commissioned to do so, are authorised and have received the corresponding training/instruction. The operating company is responsible for defining how much support is required from the manufacturer during installation.

In order to ensure that the pressure tubes function and to prevent their service life also being reduced by mechanical stress, observe the following:

- Pressure tubes must be installed so that their natural position and movements are not impeded.
- Do not use the pressure tubes if there is visible damage.
- Inspect the removable tube connection pieces to ensure that they are tight before starting up.

### Maintenance and cleaning

A weekly visual inspection of the pressure tubes is very important for optimum doctoring, as brittle or damaged pressure tubes prevent proper operation.

- Depressurise the system sections and pressure lines before starting the maintenance and cleaning work.
- Pressure tubes must be inspected every six months after installation when the machine is stopped. The result of the inspection must be documented.



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- After removing it from the doctor blade holder, clean the base trough and the CLOUTH-AIRFLEX® with a high-pressure cleaner. The CLOUTH-AIRFLEX® pressure tubes are then ready for use again.
- After re-installing the pressure tubes, check all lines, connections and screw connections regularly for leaks and clearly visible damage. Have all damage repaired by authorised maintenance staff immediately!
- The CLOUTH-AIRFLEX® pressure tubes must be replaced one year after delivery at the latest regardless of whether safety-related faults are found.

Pressure tubes are wear parts with a limited service life. The service life is affected by the storage conditions, the relevant mechanical stress and the different operational factors. The operating company must define the replacement intervals. We recommend annual replacement.

### Spare parts

Spare parts must fulfil the technical requirements defined by the manufacturer. This is always the case when original spare parts are used. In order for us to process your service queries quickly, please always have the exact designation to hand.

### Environmental protection

The packaging materials are recyclable. Please dispose of the device in accordance with local laws/regulations.

### Disposal

Tube materials that can no longer be used must be disposed of properly in accordance with local laws/regulations.