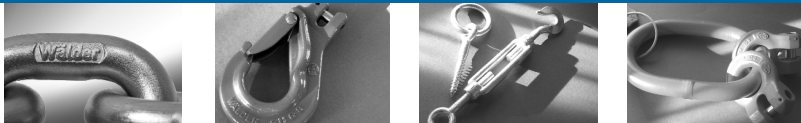
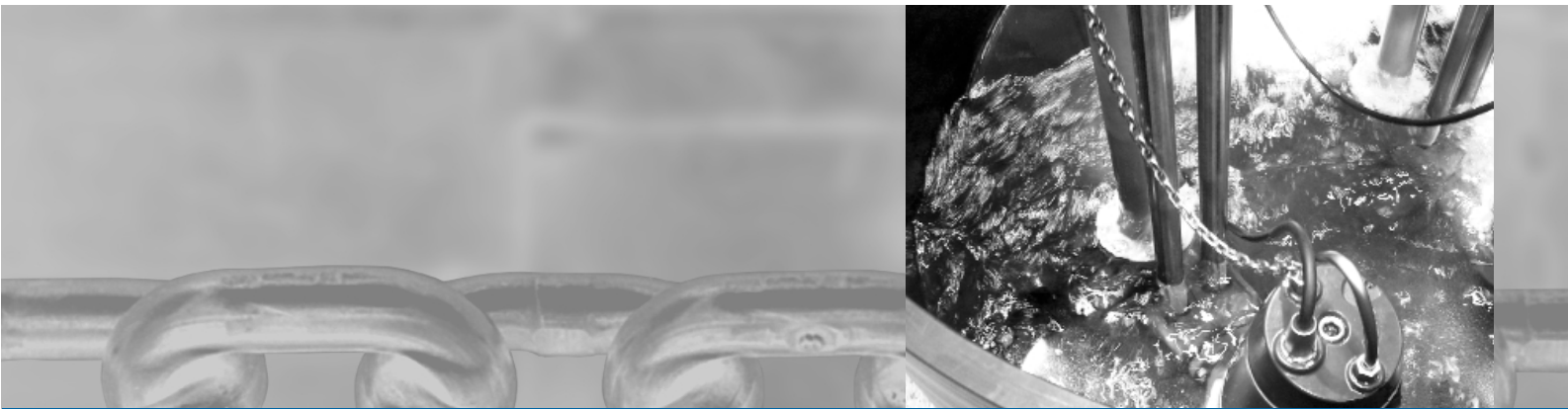


# **cromox**<sup>®</sup> Operating Instructions for Pump Chains



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## Operating Instructions for Pump Chains

Instructions for safe use and prevention of hazards.

The operating instructions/manufacturer's declaration on hand must be kept for the complete lifetime of the chain. We hereby declare (supported by the certification according to ISO 9000) that the model described below is in accordance with the Essential Health and Safety Requirements of the EC Machine Directives. This declaration shall become void in case the model is modified without our approval or if the periodic test procedures according to the National Regulations of the respective countries are not performed regularly.

### 1. Selection of pump chains:

The following aspects should be considered when selecting the pump chain:

- The National Regulations of the respective countries regarding occupational health and safety and regarding the operation of work equipment must be adhered to.
- The maximum load capacity as indicated on the capacity label may not be exceeded under any circumstances.
- Subsequent modifications are not permitted.
- The user is responsible for ensuring that the pump chain is used properly as intended.

### 2. Please note prior to first use:

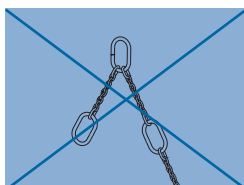
Prior to use, the following prerequisites must be fulfilled:

- The scope of delivery corresponds to the purchase order.
- The test certificate or certificate of compliance with the order is available.
- The lifting capacity is indicated and corresponds to the documentation.

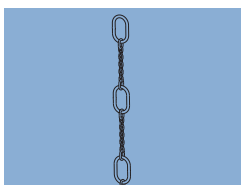
### 3. Handling

The following aspects must be considered when using the pump chain:

- The operator must make sure that the pump chain is attached properly.
- The end fitting must be checked for a secure fit at regular intervals depending on the purpose and period of use.
- The chain leg may not be twisted or knotted.
- The mass of the load must be known.
- The instructions of the pump manufacturer must be adhered to.
- Do not abruptly put weight on the pump chain.
- Single-legged pump chains may not be used as double-legged hangers.



incorrect



correct

### 4. Maintenance

Inspections must be conducted to make sure that the chain is clearly identifiable (ID-label) and to detect visible defects.



**Pump chains may no longer be used in case of the following defects:**

- ▶ Labelling/identifier illegible or missing.
- ▶ Deformation of chain links, oval links or end fitting.
- ▶ Damage (notches, distortions, corrosion).

A specialist must inspect the chain at intervals depending on the frequency of use; in any case, however, after 12 months at the latest.

Please note the following aspects in this connection:

- Cleaning procedures affecting the properties of the material may not be applied (heat, acidic or alkaline cleaning agents, concealing of surface damage, etc.).
- During the inspection, sufficient lighting must be provided and all of the pump chain components must be checked.
- All inspections must be recorded and verified in writing.

At regular intervals, at least every 3 years, however, the pump chain and its components must be checked for safety hazards by applying the 1.5-fold capacity and subsequent inspection of the chain and its components.

### 5. Please consider the following with regard to maintenance:

- It is not permitted to replace individual chain links (whole strand only).
- Welded systems must be repaired by the manufacturer.
- In case the pivot bolt of the D-shackle is deformed, it must be replaced