



Care of Cylinder

June 2025



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The following information is meant to assist customers with the maintenance of cylinders supplied by NHL.

The following recommendations are essential in **maximising** the life of the cylinders and ensuring the cylinders will continue to function as intended.

This will not only extend the life of the cylinder but will also ensure the cylinders remain in a safe operational state. As hydraulic cylinders operate at high pressures it is of high importance to prevent the hydraulic oil from escaping as this may cause severe injuries.

This document includes steps for the customer to follow/ carry out during the storage and operation of the cylinders.

If there is ever any question of the condition of the cylinders, we advise you contact NHL as soon as possible.

Care of Double Acting Cylinder

All pallets are wrapped prior to dispatch. Cylinders should be kept within this wrapping for as long as possible when in storage. This ensures they are not impacted by aggressive agents such as corrosives and steam.

When stored, cylinder oil ports must be sealed with suitable metal or plastic plugs/caps. All NHL cylinders are supplied plugged/capped.

Any hydraulic cylinders supplied un-painted should be kept dry and at a constant temperature.

If being stored for longer than 1 month within a low humidity environment NHL recommend un-painted cylinder to be coated in a rust inhibitor such as anticorit. For high humidity this will be shortened to 10-15 days.

Cylinders should be inspected every 4 weeks for any visual deterioration in cylinder appearance. After 12 months, cylinders should be inspected and coated with commercially available preservative.

Care of Single Acting Cylinder

All pallets are wrapped prior to dispatch. Cylinders should be kept within this wrapping for as long as possible when in storage. This ensures they are not impacted by aggressive agents such as corrosives and steam.

All single acting and un-painted single acting hydraulic cylinders must be kept dry and at a constant temperature. With single acting cylinders one port hole is open to the atmosphere which allows air enter and exit the cylinder. Due to this condensation can build up inside the cylinder causing the inside to rust.

When stored, cylinder oil ports must be sealed with suitable metal or plastic plugs/caps. All cylinders are supplied plugged/capped.

If being stored for longer than 1 month within a low humidity environment NHL recommend un-painted cylinder to be coated in a rust inhibitor such as anticorit. For high humidity this will be shortened to 10-15 days.

Cylinders should be inspected every 4 week for any visual deterioration in cylinder appearance. After 12 months cylinders should be inspected and coated with commercially available preservative.

Care of Cylinder in Operation

Ensure operating fluid is compatible with the sealing materials.

Maintain oil condition. Regular oil changes remove contaminants from the line that may cause damage to the seals, internal bore finish etc leading to leaks.

Additional filtering will increase the hydraulic cylinder service life. Check leak-tightness and functional safety at frequent intervals.

Regular greasing of the pins, bearings etc will extend the life by reducing wear.

Regular inspection of chrome.

Refer to Care of Chrome for advice on maintenance of chrome rod.

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 **NHL**