1. Maintenance

1.1 General
Please follow the maintenance instructions.

1.2 Installation
Before installing the filter into the system, check that the operating pressure of the system does not exceed the permitted operating pressure of the filter. Refer to the type code label on the filter.

1.3 Commissioning
Check that the correct filter element is installed. Screw the cover plate back on by hand fully (metal to metal contact) and then a quarter-turn back again. The sealing effect will not be improved by overtightening.

Switch on the hydraulic system and check filter for leakage.

Vent filter at an appropriate point in the system.

Under extreme conditions (e.g. cold start), bypass valves will allow a partial flow past the element for a short time.

1.4 Maintenance Tools

<table>
<thead>
<tr>
<th>Type</th>
<th>Key for clogging indicator or indicator plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFD</td>
<td>VD 0 A.1</td>
</tr>
<tr>
<td></td>
<td>VR 0 A.0</td>
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<td></td>
<td>Hex 27</td>
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<td></td>
<td>Hex 19</td>
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1.5 Torque Values

<table>
<thead>
<tr>
<th>Type</th>
<th>Torque Nm[ft-lb]</th>
</tr>
</thead>
<tbody>
<tr>
<td>VM Clogging indicator</td>
<td>33 Nm [24]</td>
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<tr>
<td>VR clogging indicator</td>
<td>30 Nm [22]</td>
</tr>
<tr>
<td>Oil Drain Plug</td>
<td>80 [59] – G½</td>
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<tr>
<td></td>
<td>91 [67] – G¾</td>
</tr>
<tr>
<td>Bowl/ Lid or end cover</td>
<td>Do not Torque</td>
</tr>
</tbody>
</table>

(See 1.3 and 2.2)

2. Element Replacement

2.1 Element Removal
1. Turn lever through 90°, filtration is switched over to the other side.
2. Loosen the air bleed screw(s); remove the oil drain plug(s); drain the oil into a container.
3. Unscrew cover plate.
4. Remove filter elements (if present with dirt retainer) from the element nozzle. Examine element surface for dirt residues and larger particles since these can be an indication of damage to components.
5. Remove dirt retainer (if present) by turning counter-clockwise – bayonet fitting (only on Version 1.x).
6. Replace or clean filter element(s) (only W/HC and V elements can be cleaned).
7. Clean housing, cover plate and dirt retainer (if present).
8. Examine filter, especially sealing surfaces, for mechanical damage.
9. Check O-rings – and replace if necessary.

2.2 Element Installation
1. Lubricate the sealing surfaces on the filter housing and cover plate, as well as the O-ring, with clean operating fluid.
2. When installing a new filter element, check that the designation corresponds to that of the old element.
3. If present, install the dirt retainer onto the new or cleaned filter element by turning clockwise (only for type NF...1.x).
4. Place filter element(s) carefully on to the element nozzle.
5. Apply silver grade anti-seize (per Mil-PRF-907E) to threads. Screw in the oil drain plug(s); tighten the air bleed screw(s).
6. Switch the lever to the cleaned filter side and fill the filter until oil exits at the air bleed screw. Close the air bleed screw and switch the lever back to the other filter side.
7. Check filter for leakage.

NOTE:
When replacing the pipe elbows and connection parts, you must ensure that the parts are assembled without being placed under strain. If this is not observed, the aluminium parts may be damaged.

Contamination or incomplete pressure release on disassembly can lead to seizing of the bowl thread.

Filter elements which cannot be cleaned are to be disposed of in accordance with environmental protection regulations.
3. Spare Parts

3.1 NFD 1310/2610...1.x

<table>
<thead>
<tr>
<th>Item</th>
<th>Consists</th>
<th>Designation</th>
<th>Quantity</th>
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<th>2610</th>
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<td>1.</td>
<td>Filter element</td>
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</tr>
<tr>
<td>2.</td>
<td>Clogging indicator or screw plug</td>
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<tr>
<td>2.1</td>
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<td>00305928</td>
</tr>
<tr>
<td></td>
<td>VD 0 A.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>VD 0 A.1 /-V</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>2.2</td>
<td>Screw plug</td>
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<td>VSTI G 3/4&quot; NBR</td>
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<td>O-ring (cover plate)</td>
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</tr>
<tr>
<td>3.3</td>
<td>O-ring (tank seal)</td>
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<td>5.</td>
<td>Contamination retainer</td>
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</table>

Other spare parts on request:
- O-Ring durometer can range from 70-80Sh. EPR Seal Kits available on request.
- Bowl assembly kits not available.
### 3.2 NFD 13x0/26x0L...2.x

**Filter Maintenance**

- O-Ring durometer can range from 70-80Sh. EPR Seal Kits available on request.
- Bowl assembly kits not available.

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</tr>
<tr>
<td>2.</td>
<td>Clogging indicator or screw plug</td>
<td>see Point 5. Replacement clogging indicator</td>
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</tr>
<tr>
<td>2.1</td>
<td>Screw plug</td>
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<td>00305928</td>
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</tr>
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<td>VD 0 A.1 /-V</td>
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<tr>
<td>2.3</td>
<td>Screw plug</td>
<td>2 / 2</td>
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<td>00613726</td>
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<td></td>
<td>VSTI G 3/4'' NBR</td>
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<td>VSTI G 3/4'' FPM</td>
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<td>Screw plug</td>
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<td>VSTI G 1/2'' FPM</td>
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</tbody>
</table>

**Other spare parts on request**

- O-Ring durometer can range from 70-80Sh. EPR Seal Kits available on request.
- Bowl assembly kits not available.
### FILTER MAINTENANCE

#### 3.3 NFD 5210...1.x

<table>
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<th>Item</th>
<th>Consists</th>
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<th>Quantity</th>
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</tr>
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<tr>
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<td>97.8 x 5.33</td>
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<td>3.2 O-ring (cover plate)</td>
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<td>189.87 x 5.33</td>
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<td></td>
<td></td>
<td>3.3 O-ring (tank seal)</td>
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<td>240.67 x 5.33</td>
</tr>
<tr>
<td>4.</td>
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<tr>
<td>5.</td>
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</table>

Other spare parts on request:
- O-Ring durometer can range from 70-80Sh. EPR Seal Kits available on request.
- Bowl assembly kits not available.
### FILTER MAINTENANCE

**3.4 NFD 52x0 - 104x0...2.x**

### Item Consists Designation 5210/5240 7810/7840 10410/10440

<table>
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<tr>
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<th>Designation</th>
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<th>10410/10440</th>
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<tr>
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<td>8x / 8x</td>
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<td>8x / 16x</td>
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<td>6x / 6x</td>
<td>8x / 8x</td>
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<td>8x / 16x</td>
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<td>6x / 12x</td>
<td>8x / 16x</td>
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<td>00613726</td>
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<td>3.</td>
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<td>8x / 16x</td>
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<td>6x 01270371</td>
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<td>3.2</td>
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<td>8x 97.8 x 5.33</td>
<td></td>
</tr>
<tr>
<td></td>
<td>O-ring (cover plate)</td>
<td>4x 189.87 x 5.33</td>
<td>6x 189.87 x 5.33</td>
<td>8x 189.87 x 5.33</td>
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</tr>
<tr>
<td>4.</td>
<td>Lever NFD.2600</td>
<td>01204141</td>
<td>01204141</td>
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<td></td>
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</tbody>
</table>

Other spare parts on request:
- O-Ring durometer can range from 70-80Sh. EPR Seal Kits available on request.
- Bowl assembly kits not available.
4. Replacement Element Model Code

**Size**
- 1300 - for housings: 1310
- 2600 - for housings: 2610, 5210, 7810, 10410

**Filtration Rating (micron)**
- 1, 3, 5, 10, 15, 20 = ON
- 3, 10 = BN4AM
- 5, 10, 20 = ECON2
- 3, 10 = AM
- 25, 50, 74, 100, 149, 200 = W/HC
- 10, 20 = P/HC
- 3, 5, 10, 20 = V

**Element Media**
- ON, BN4AM, ECON2, AM, W/HC, P/HC, V

**Seals**
- (omit) = standard - Nitrile rubber (NBR)
- V = Fluorocarbon elastomer (FKM)
- EPR = Ethylene propylene rubber (EPR)

**Bypass Valve**
- (omit) = 43 psid (3 bar) (standard)
- B1 = 14.5 psid (1 bar)
- B6 = 87 psid (6 bar)
- KB = no bypass

**Supplementary Details**
- S0263 = Modification of elements for Skydrol or HYJET phosphate ester fluids
- W = Modification of “V” elements for use with oil water emulsions (HFA) and water polymer solutions (HFC)
- SFREE = Element specially designed to minimize electrostatic charge generation

**Note:** Element contamination retainer = P/N 01204141

5. Clogging Indicator Model Code

**Indicator Prefix**
- VR = Static Indicators (1.X version)
- VM = ΔP Indicators (2.X version)

**Trip Pressure**
- 2 = 29 psid (2 bar) (return filters)
- 5 = 72 psid (5 bar) (optional)

**Type of Indicator**
- A = No indicator, plugged port
- B = Pop-up indicator (auto reset - static only - 1.0)
- BM = Pop-up indicator (manual reset)
- C = Electric switch - SPDT
- D = Electric switch and LED light - SPDT

**Modification Number**

**Supplementary Details**
- Seals
  - (omit) = Nitrile rubber (NBR) (standard)
  - V = Fluorocarbon elastomer (FKM)
  - EPR = Ethylene propylene rubber (EPR)

**Light Voltage** (D type indicators only)
- L24 = 24V
- L48 = 48V
- L110 = 110V
- L220 = 220V

(For additional details and options, see Section G - Clogging Indicators.)
6. Maintenance Instructions

6.1 User Instructions for Filters

- This pressure equipment must only be put into operation in conjunction with a machine or system.
- The pressure equipment must only be used as stipulated in the operating instructions of the machine or system.
- This pressure equipment must only be operated using hydraulic or lubricating fluid.
- It is the responsibility of the operator to comply with the water regulations of the country concerned.

CAUTION
- The user must take appropriate action (e.g. venting) to prevent the formation of air pockets.
- Repairs, maintenance work and commissioning must only be carried out by trained personnel.
- Allow the pressure equipment to cool before handling.
- The stipulations of the operating instructions of the machine or the system must be followed.
- Statutory accident prevention regulations, safety regulations and safety data sheets for fluids must be observed.
- Hydraulic oils and water-polluting fluids must not be allowed to enter the soil or watercourses or sewer systems. Please ensure safe and environmentally friendly disposal of hydraulic oils. The relevant regulations in the country concerned with regard to ground water pollution, used oil and waste must be complied with.
- When working on, or in the vicinity of, hydraulic systems, open flames, sparks and smoking are forbidden.
- Hydraulic oils and water-polluting fluids must not be allowed to enter the soil or watercourses or sewer systems. Please ensure safe and environmentally friendly disposal of hydraulic oils. The relevant regulations in the country concerned with regard to ground water pollution, used oil and waste must be complied with.
- Whenever work is carried out on the filter, be prepared for hot oil to escape which can cause injury or scalding as a result of its high pressure or temperature.

DANGER!
- Caution: pressure equipment! Before any work is carried out on the pressure equipment, ensure the pressure chamber concerned (filter housing) is depressurized.
- On no account must any modifications (welding, drilling, opening by force...) be carried out on the pressure equipment.
- When using electrical clogging indicators, the electrical power supply to the system must be switched off before removing the clogging indicator connector.

6.2 Maintenance, General

This section describes maintenance work which must be carried out periodically. The operational safety and life expectancy of the filter, and whether it is ready for use, depend to a large extent on regular and careful maintenance.

6.3 Maintenance Measures
- Spare parts must fulfil the technical requirements specified by the manufacturer.
- Keep tools, working area and equipment clean.
- After disassembling the filter, clean all parts, check for damage or wear and replace parts if necessary.
- When changing a filter element, a high level of cleanliness must be observed.

6.4 Interval Between Element Changes

In principle we recommend that the filter element is changed every 6 months or upon indication, whichever occurs first.

We recommend installing the filter with a clogging indicator (visual and/or electrical or electronic) to monitor the filter element.

If the clogging indicator responds, it is necessary to change or clean the filter element without delay (only W and V elements can be cleaned).

When no clogging indicator has been installed, we recommend changing the elements at specific intervals. (The frequency of changing the filter elements depends on the filter design and the conditions under which the filter is operated). When filter elements are subject to high dynamic loading it may prove necessary to change them more frequently. The same applies when the hydraulic system is commissioned, repaired or when the oil is changed.

The standard clogging indicators only respond when fluid is flowing through the filter. With electrical indicators the signal can also be converted into a continuous display on the control panel. In this case the continuous display must be switched off during a cold start or after changing the element.

If the clogging indicator responds during a cold start only, it is possible that the element does not yet need to be changed.

Customer Information in respect of Machinery Directive 2006/42/EC

Hydraulic filters are defined as fluid power parts / components and are therefore excluded from the scope of the Machinery Directive, sections 1.4.1 - 1.4.3. They do not bear the CE mark.

Before using these components, ensure compliance with the specifications provided by HYDAC Technology Corporation. The specifications also contain information on the relevant essential health and safety requirements (based on Machinery Directive 2006/42/EC).

We hereby declare that the filters are intended to be incorporated into machinery within the terms of the Directive 2006/42/EC. It is prohibited to put the filters into service until the machinery as a whole is in conformity with the provisions of the Machinery Directive.

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NOTE
The information in this brochure relates to the operating conditions and applications described.
For applications or operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.
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