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.

Important: When using filters without bypass valve and at operating pressures above 290 psi (20 bar), high differential pressure-resistant filter elements of the type BH4HC should be used for safety reasons.

1.3 Commissioning
Check that the correct filter element is installed. Screw in bowl again fully (metal to metal contact) and then unscrew by one quarter-turn (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>Size</th>
<th>Wrench for filter bowl</th>
<th>Allen key for oil drain plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>Hex 24</td>
<td>Hex 6</td>
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<tr>
<td>60-110</td>
<td>Hex 27</td>
<td>Hex 10</td>
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<tr>
<td>160-280</td>
<td>Hex 32</td>
<td>Hex 10</td>
</tr>
<tr>
<td>330-4000</td>
<td>Hex 36</td>
<td>Hex 10</td>
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<table>
<thead>
<tr>
<th>Size</th>
<th>Allen key for int. hex. for vent</th>
<th>Wrench for VD 0 A.1</th>
<th>Allen key for check valve plug M60x2</th>
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<tbody>
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<td>30</td>
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<td>Hex 24</td>
<td>–</td>
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<tr>
<td>60-110</td>
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<td>–</td>
</tr>
<tr>
<td>160-280</td>
<td>Hex 5</td>
<td>Hex 27</td>
<td>–</td>
</tr>
<tr>
<td>330-4000</td>
<td>Hex 5</td>
<td>Hex 27</td>
<td>–</td>
</tr>
<tr>
<td>DFDK</td>
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<tr>
<td>330-1320</td>
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<td></td>
<td></td>
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<tr>
<td>1.1 only</td>
<td>–</td>
<td>–</td>
<td>Hex 32</td>
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1.5 Torque Values

<table>
<thead>
<tr>
<th>Type</th>
<th>Torque Nm[ft-lb]</th>
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</thead>
<tbody>
<tr>
<td>VD-clog ind</td>
<td>100 [74]</td>
</tr>
<tr>
<td></td>
<td>50 [37] (A, LE, LZ)</td>
</tr>
<tr>
<td>Oil Drain Plug</td>
<td>80 [59] - G1/2</td>
</tr>
<tr>
<td></td>
<td>60 [44] - G3/8</td>
</tr>
<tr>
<td>Bowl/ Lid or end cover</td>
<td>Do not Torque</td>
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<tr>
<td>(See 1.3 and 2.2)</td>
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<tr>
<td>Check Valve Plug M60x2, DFDK 330-1320 1.1 only</td>
<td>500 [369]</td>
</tr>
</tbody>
</table>

2. Element Replacement

2.1 Element Removal
1. Do not switch off the hydraulic system.
2. Establish which filter side is in operation – indicated by lever on the filter.
3. To switch filter sides, turn the lever through 90° – the other filter side is now in operation.

Size 330 and over:
First equalize the pressure in both filter sides by opening the spindle. To switch over, turn lever through 90° – the other filter side is now in operation. Close spindle again.

4. Open oil drain plug of the filter side not in operation.
5. One-piece bowl:
   Unscrew filter bowl (drain fluid into a suitable container and clean or dispose of it in accordance with environmental regulations).
   Two-piece bowl and top removable:
   Apply silver grade anti-seize (per Mil-PRF-907E) to threads. Screw in lid fully (metal to metal contact).
5. Apply silver grade anti-seize (per Mil-PRF-907E) to threads. Screw in oil drain plug.
6. Unscrew filter bowl or lid by one quarter-turn.
7. Vent filter at an appropriate point in the system.
8. Check filter for leakage.

2.2 Element Installation
1. Wet the sealing surfaces and thread on the filter head and bowl/lid, 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. Place filter element carefully on to the element nozzle.

In addition, on two-piece bowl:
   Install element with threaded pin.
4. One-piece bowl:
   Apply silver grade anti-seize (per Mil-PRF-907E) to threads. Screw in filter bowl fully (metal to metal contact).
   Two-piece bowl and top removable:
   Apply silver grade anti-seize (per Mil-PRF-907E) to threads. Screw in lid fully (metal to metal contact).
5. Apply silver grade anti-seize (per Mil-PRF-907E) to threads. Screw in oil drain plug.
6. Unscrew filter bowl or lid by one quarter-turn.
7. Vent filter at an appropriate point in the system.
8. Check filter for leakage.

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

Filter elements which cannot be cleaned must be disposed of in accordance with environmental protection regulations.
2.3 Venting
After the element has been changed, the cleaned filter side must be vented.
For this purpose there are vent screws on the filter head.

Venting DFDK 30 to 280

- Left filter side:
  Open vent screws 1 and 2.
- Right filter side:
  Open vent screws 1 and 3.

1 = Clean side
2 = Contaminated side left
3 = Contaminated side right

2.4 Pressure Equalization Spindle
DFDK 330-1320

Removal:
- Switch off the system.
- Unscrew threaded pin M5 x 12 (on the side).
- Unscrew spindle.
- Replace O-ring.

Replacement:
- Screw in spindle with new O-ring.
- Screw in threaded pin fully.
- Turn spindle and check that the threaded pin meshes with the groove in the spindle.
- Turn spindle again firmly so that the pressure equalization line is closed.
- CAUTION: spindle must be prevented from unscrewing by installing the threaded pin.
- Switch system on again.

2.5 Optional Transfer Valve Maintenance

1. Shut off system.
2. Relieve system pressure to atmospheric.  
   Caution: do not relieve pressure through plugs, items 130 & 210.
3. Drain system if filter is at a low point in the system.
4. Slowly open the drain plug, item 130, and vent plug, items 210, on bowl side under the handle.
   Note: collect fluid in a suitable container. Clean or dispose of fluid in accordance with environmental regulations.
5. Rotate handle to other bowl.
7. Remove filter bowls, item 100, and elements when completely drained
   Note: for two piece bowls, first remove cap/lid, item 140. Then loosen set screw, item 160, and remove bowl.
8. Remove filter elements.
   Note: for two piece bowls, first remove screw, item 150. Then remove filter element.
9. Remove filter from hydraulic system if necessary.
10. Loosen nut, item 840.
11. Remove plug, item 850.
12. Pull spacer, item 820, from the filter housing.
    Note: install 8mm x 1.25Mm screw in spacer to aid removal.
    Caution: Valve must be open to the left hand housing and the opening facing up otherwise the ball and seals will fail out.
13. Turn valve stem to right hand housing.
14. Remove ball, item 700.  
    Caution: Ball will fall out.
15. Loosen screw and nut on handle, item 770.
16. Remove handle, item 770.
17. Remove valve stem, item 720, by pushing it through the housing.
18. Remove friction washer, item 730, from valve stem and discard.
19. Remove o-ring, item 740, from valve stem and discard.
20. Remove remaining ball seal, item 710.
21. Clean and degrease all parts including the housing.
22. Inspect all parts for damage. Replace items as necessary.
23. Install new friction washer, item 730, and new o-ring, item 740, on the valve stem, item 720.
24. Lubricate o-ring area of valve stem and housing.
25. Install o-rings, item 830, on spacer, item 820.
26. Lubricate plug, item 850, threads and ball seals, item 710
27. Install one ball seal, item 710, into the housing.
    Caution: Make certain that the curved portion of the ball seal is facing the ball and the seal is seated against the housing.
28. Install the valve stem, item 720, into the housing.
29. Rotate valve stem to the right hand housing as indicated by the slot on the valve stem.
30. Lubricate the ball, item 700, with system fluid.
31. Align the slot in the top of the ball with the tongue of the valve stem and carefully insert the ball.
    Caution: Do not drop the ball. Make certain the flow path through the ball matches the notch direction on the valve stem, flow from the top to the right.
32. Install the second ball seal, item 710.
33. Install spacer, item 820, into the filter head by hand.
34. Re-install plug, item 850, into the filter head by hand until it contacts the spacer, item 820.
35. Tighten the plug, item 850 an additional 1/8th turn.
    Caution: Do not overtighten. This will bind the valve and/or break the ball seals.
36. Install nut, item 840.
37. Install limit washer, item 750, and spring retainer, item 760.
38. Install handle, item 770.
39. Check for smooth operation of the valve. It should turn easily. If it does not, adjust the torque on item 820 or check for proper orientation of the ball seals.

40. Re-install filter head assembly in the system.

**One piece bowls**

41. Lubricate o-ring on filter elements with system fluid or grease. 
   Note: for two piece bowls, skip to step 47.

42. Install filter elements.
   Note: use a twisting action to prevent o-ring damage.

43. Replace o-ring (117x4), item 110, and backup ring, item 120, on filter bowls, item 100.

44. Re-install or tighten drain plugs, item 130, into bowls, item 100.

45. Lubricate o-ring, item 110, and backup ring, item 120, with system fluid or grease.

46. Re-install filter bowls, item 100.
   Note: screw bowl in fully and loosen ¼ turn.

**Two piece bowls - Skip to step 54**

47. Replace o-ring (117x4), item 110, and backup ring, item 120, on filter bowls, item 100.

48. Re-install filter bowls, item 100.
   Note: screw bowl in fully and loosen until the first thread counterbore aligns with the m10 set screw, item 160.

49. Tighten set screw, item 160, to lock the bowl in place.

50. Install filter elements.
   Note: use a twisting action to prevent o-ring damage.

51. Install element retention screw, item 150*
   Note: center screw in bowl.

52. Re-install or tighten drain plugs, item 130, into cap/lids, item 140.

53. Install cap/lid, item 140, onto bowls, item 100.
   Note: screw cap/lid in fully and loosen ¼ turn.

54. Open equalization valve, item 272.

55. Center transfer valve.

56. Fill filter housing with fluid until it comes out the vent plugs, item 210.
   **Caution:** All air must be removed from the filter housing.

57. Close both vent plugs, item 210.

58. Close equalization valve, item 272.

59. Pressurize and check for leaks.

60. Rotate to one side.

61. Filter is now ready for operation.

---

**Version 2.x**

![Diagram of filter maintenance steps](image)

**Version 2.x use Loctite 275**

![Diagram of filter maintenance steps](image)

**D - D (1:1) (um 90A turned)**

![Diagram of filter maintenance steps](image)

**View -X-**

![Diagram of filter maintenance steps](image)

---

**Scale 1 : 5**

![Diagram of filter maintenance steps](image)

---

**A-A**

![Diagram of filter maintenance steps](image)

---

**B-B**

![Diagram of filter maintenance steps](image)

---

**C-C**

![Diagram of filter maintenance steps](image)
# FILTER MAINTENANCE

## 3. Spare Parts

### 3.1 DFDK 30 – 660 (One-Piece Bowl)

<table>
<thead>
<tr>
<th>Item</th>
<th>Consists Designation</th>
<th>30</th>
<th>60</th>
<th>110</th>
<th>140</th>
<th>160</th>
<th>240</th>
<th>280</th>
<th>330</th>
<th>500</th>
<th>660</th>
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<tbody>
<tr>
<td>1.</td>
<td>Filter element</td>
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<td></td>
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</tr>
<tr>
<td>1.1</td>
<td>Filter element</td>
<td>0030 D...</td>
<td>0060 D...</td>
<td>0110 D...</td>
<td>0140 D...</td>
<td>0160 D...</td>
<td>0240 D...</td>
<td>0280 D...</td>
<td>0330 D...</td>
<td>0500 D...</td>
<td>0660 D...</td>
</tr>
<tr>
<td>1.2</td>
<td>O-ring</td>
<td>12.37 x 2.62</td>
<td>22 x 3.5</td>
<td>34 x 3.5</td>
<td>48 x 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### 2. Clogging indicator or indicator plug

- Indicator plug
- Profile seal ring
- O-ring

<table>
<thead>
<tr>
<th>2.1</th>
<th>Indicator plug</th>
<th>VD 0 A.1</th>
<th>VD 0 A.1 /-V</th>
</tr>
</thead>
<tbody>
<tr>
<td>00305932</td>
<td>00305931</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 2.2  | Profile seal ring    | VD...    |     |     |     |     |     |     |     |     |     |
| 2.3  | O-ring               | 15 x 1.5 |     |     |     |     |     |     |     |     |     |

### 3. Repair kit DFDK

- Repair kit DFDK /-V
- O-ring (element)
- O-ring (bowl)
- Back-up ring (bowl)
- Profile seal ring (indicator)
- O-ring (indicator)
- Oil drain plug
- Vent

| 3.1  | O-ring (element)     | 12.37 x 2.62 | 22 x 3.5 | 34 x 3.5 | 48 x 3 |     |     |     |     |     |     |
| 3.2  | O-ring (bowl)        | 46 x 3 | 59 x 3 | 80 x 4 | 117 x 4 |     |     |     |     |     |     |
| 3.3  | Back-up ring (bowl)  | DFDK 30... | DFDK 60... | DFDK 160... | DFDK 330... |     |     |     |     |     |     |
| 3.4  | Profile seal ring (indicator) | VD... | VD... | VD... | VD... |     |     |     |     |     |     |
| 3.5  | O-ring (indicator)   | 15 x 1.5 | 15 x 1.5 | 15 x 1.5 | 15 x 1.5 |     |     |     |     |     |     |
| 3.6  | Oil drain plug       | G 1/4 | G 1/2 | G 1/2 | G 1/2 |     |     |     |     |     |     |
| 3.7  | Vent                 | G 1/8 | G 1/8 | G 1/8 | G 1/8 |     |     |     |     |     |     |

### 4. Lever

| 4.   | Lever                | 01261481 | 01261482 | 01261483 | 01261484 |     |     |     |     |     |     |

### 5. Spindle-E DFDK

| 5.   | Spindle-E DFDK       | –        | –        | –        | 01252239 |

*If present. - O-Ring durometer can range from 70-80Sh. EPR Seal Kits available on request.
- Bowl assembly kits on request – kits include complete bowl with seals, plug, and threaded pin.
- Check Valve Kit (DFDX sizes 330-1320 version 1.1 only): P/N 1299741
3.2 DFDK 660 - 1320 (Two-Piece Bowl)

Versions 2.0, 2.1, 2.2

<table>
<thead>
<tr>
<th>Item</th>
<th>Consists</th>
<th>Designation</th>
<th>660</th>
<th>990</th>
<th>1320</th>
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<tr>
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<td>Filter element</td>
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<td>0990 D...</td>
<td>1320 D...</td>
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<tr>
<td>1.2</td>
<td>O-ring</td>
<td>48 x 3</td>
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</tr>
<tr>
<td>2.</td>
<td>Clogging indicator or indicator plug</td>
<td>See Point 5. Replacement clogging indicator</td>
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<tr>
<td>2.1</td>
<td>Indicator plug</td>
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<td>VD 0 A.1</td>
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<td></td>
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<td>VD 0 A.1 /-V</td>
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<tr>
<td>2.2</td>
<td>Profile seal ring</td>
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<tr>
<td>2.3</td>
<td>O-ring</td>
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<tr>
<td>3.</td>
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<tr>
<td>3.1</td>
<td>O-ring (element)</td>
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</tr>
<tr>
<td>3.2</td>
<td>O-ring (bowl)</td>
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</tr>
<tr>
<td>3.3</td>
<td>Back-up ring (bowl)</td>
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</tr>
<tr>
<td>3.4</td>
<td>Profile seal ring (indicator)</td>
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</tr>
<tr>
<td>3.5</td>
<td>O-ring (indicator)</td>
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</tr>
<tr>
<td>3.6</td>
<td>Oil drain plug</td>
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</tr>
<tr>
<td>3.7</td>
<td>Vent</td>
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</tr>
<tr>
<td>3.8</td>
<td>Threaded pin</td>
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<tr>
<td>4.</td>
<td>Lever</td>
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<tr>
<td>5.</td>
<td>Spindle-E DFDK</td>
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<td></td>
</tr>
</tbody>
</table>

*If present. - O-Ring durometer can range from 70-80Sh. EPR Seal Kits available on request.
- Bowl assembly kits on request – kits include bowl with seals, drain plug and threaded pin(DFDK330-1320 2.0).
- Check Valve Kit (DFDX sizes 330-1320 version 1.1 only): P/N 1299741

*If present. - O-Ring durometer can range from 70-80Sh. EPR Seal Kits available on request.
- Bowl assembly kits on request – kits include bowl with seals, drain plug and threaded pin(DFDK330-1320 2.0).
- Check Valve Kit (DFDX sizes 330-1320 version 1.1 only): P/N 1299741
### 4. Replacement Element Model Code

<table>
<thead>
<tr>
<th>Size</th>
<th>0060, 0110, 0160, 0240, 0280, 0330, 0660, 1320</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filtration Rating (micron)</td>
<td>3, 5, 10, 20 = BH4HC, 3, 5, 10, 20 = V</td>
</tr>
<tr>
<td>Element Media</td>
<td>BH4HC, V</td>
</tr>
<tr>
<td>Seals</td>
<td>(omit) = Nitrile rubber (NBR) (standard)</td>
</tr>
<tr>
<td></td>
<td>V = Fluorocarbon elastomer (FKM)</td>
</tr>
<tr>
<td></td>
<td>EPR = Ethylene propylene rubber (EPR)</td>
</tr>
<tr>
<td>Supplementary Details</td>
<td>SO263 = Modification of elements for Skydrol or HYJET phosphate ester fluids</td>
</tr>
<tr>
<td></td>
<td>SFREE = Element specially designed to minimize electrostatic charge generation</td>
</tr>
<tr>
<td></td>
<td>W = Modification of “V” elements for use with oil water emulsions (HFA) and water polymer solutions (HFC) usually polyglycol</td>
</tr>
</tbody>
</table>

### 5. Clogging Indicator Model Code

| Indicator Prefix | VD = G 1/2 8000 psi |
| Trip Pressure | 8 = 116 psid (8 bar) |
| Type of Indicator | A = No indicator, plugged port |
| | B = Pop-up indicator (auto reset) |
| | 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 |
| | L110 = 110V |
| Thermal Lockout (VM, VD types C, D, J, and J4 only) | T100 = Lockout below 100°F |
| Underwriters Recognition (VM, VD types C, D, J, and J4 only) | cRUus = Electrical Indicator with underwriter’s recognition |
| | W = “VD…” indicator modified with a brass piston for use with high water based emulsions/solutions (HFA) & (HFC) |

(For additional details and options, see Section G - Clogging Indicators of the HYDAC Filter catalog.)

*Model Codes Containing RED are non-stock items — Minimum quantities may apply – Contact HYDAC for information and availability.*
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.
- Filter housing must be grounded.
- 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/HC 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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