HYDAC

DAC INTERNATIONAL



Spare Parts List Mounted return line filter RFD

up to 1300 l/min, up to 25 bar



1. MAINTENANCE

1.1 GENERAL

Please follow the maintenance instructions!

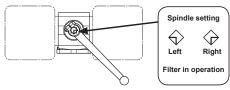
1.2 INSTALLATION

Before fitting 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 name plate on the filter!

1.3 COMMISSIONING

Check that the correct filter element is fitted. Fit cover and screw in cover bolts alternately. Move the lever to the centre position and fill filter via the system (both filter sides are filled).



After that, change over to a filter side by throwing the lever to one filter side and check filter for damage.

1.4 TOOLS REQUIRED FOR MAINTENANCE

Size	Torque value	Int. hex. Allen key		
60/110	20 Nm	AF width 6		
160/240	20 Nm	AF width 6		
330	40 Nm	AF width 8		
660	150 Nm	AF width 14		
950/1300	200 Nm	AF width 17		

1.5 TORQUE VALUES FOR CLOGGING INDICATORS

Type	Max. torque				
VR	33 Nm (for RFD 60-330) 50 Nm (for RFD 660-1300)				
VR	15 Nm (for B, BM F, LE and LZ indicators)				

2 CHANGING THE ELEMENT 2.1 REMOVING THE ELEMENT

1. Switch lever slowly over to clean filter side.

<u>Caution:</u> when fitted inline: Before opening the filter, slowly open the air bleed screw and release pressure (release possible pressure in the tank).

2. Size 60-330:

Loosen cover bolts and lift off cover.

Size 660-1300:

Unscrew cover bolts by approx. 2 turns (no need to remove completely). Turn cover clockwise until it can be lifted off by holding near the bolts (bayonet).

- 3. Pull out filter element(s) (with dirt retainer – if present) by the handle. Examine element surface for dirt residues and larger particles since these can be an indication of damage to components.
- 4. Remove dirt retainer (if present) by turning anti-clockwise bayonet fitting.
- Replace or clean filter element(s) (only W/HC and V elements can be cleaned).
- 6. Clean housing, cover and dirt retainer.
- 7. Examine filter, especially sealing surfaces, for mechanical damage.
- 8. Check O-rings and replace if necessary

2.2 FITTING THE ELEMENT

- 1.Lubricate the sealing surfaces on the filter housing and cover, as well as the O-ring, with clean operating fluid.
- 2. When fitting a new filter element, check that the designation corresponds to that of the old element.
- If present, fit the dirt retainer onto the new or cleaned filter element by turning clockwise.
- 4. Place filter element(s) carefully on to the element spigot in the housing.
- 5.Size 60-330:

Position cover and screw in cover bolts by hand; then tighten the cover bolts in alternation.

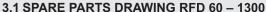
Size 660-1300:

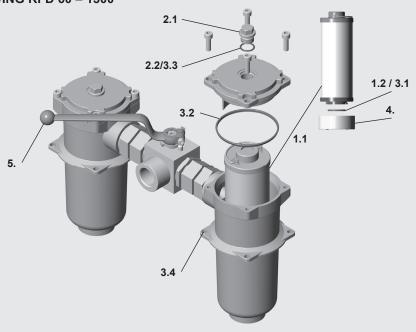
Replace cover in correct position (dowel pin in the housing must line up with groove in the cover) and turn anticlockwise as far as it will go. Tighten cover bolts alternately.

- 6. Vent filter at an appropriate point in the system.
- 7. Check the filter for leakage.

NOTICE:

Filter elements which cannot be cleaned must be disposed of in accordance with environmental protection regulations.



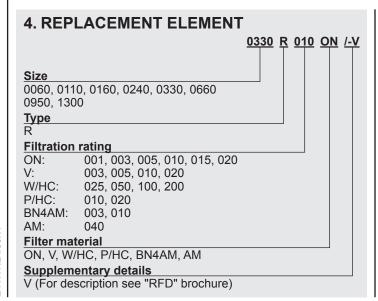


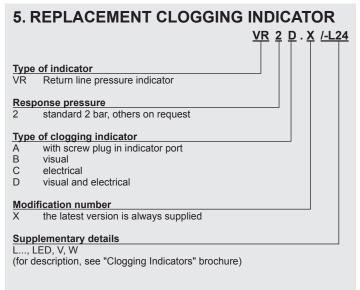
3.2 SPARE PARTS LIST RFD 60 - 1300

Itom	Con	Description							
		Description	RFD 60	RFD 110	RFD 160	RFD 240	RFD 330	RFD 660	RFD 950 RFD 1300
	sists		1 00						
<u>1</u>		Filter element	see Point 4. Replacement elements						
	1.1	Filter element	0060 R	0110 R	0160 R	0240 R	0330 R	0660 R	0950 R 1300 R
	1.2	O-ring	22 >	(3.5	34 >	3.5	48 x 3	68 x 5	97.8 x 5.33
2.		Clogging indicator	Con Daint F. Dayland worth allowing indicator						
		or screw plug	See Point 5. Replacement clogging indicator						
	2.1	Screw plug							
		VR 0 A.0	00306006						
		VR 0 A.0 /-V	00305928						
	2.2	O-ring	18 x 2.5						
3.		Seal kit RFD	2 x 012	267827	2 x 012	270657	2 x 00319613	2 x 01293036	2 x 01293037
		Seal kit RFD /-V	2 x 012	267828	2 x 012	270658	2 x 00311702	2 x 01293033	2 x 01293034
	3.1	O-ring (element)		3.5	34 >	3.5	48 x 3	68 x 5	97.8 x 5.33
	3.2	O-ring (cover)	63.09	x 3.53	91.67	x 3.53	105 x 5	153 x 5	185 x 5
	3.3	O-ring (indicator)	18 x 2.5						
	3.4	O-ring (tank seal)		x 3.53		x 3.53	00405588	03170653	00405590
4.*		Dirt retainer RF/D	00245028	00246164	00245029	00246182	00245030	00245031	00413196 -
		Dirt retainer RF/DHC	0120	2362	0120	2363	01202364	01202357	01204141
5.		Lever RFD		0027	0382		0027	0383	01205525

^{*}if present

Other spare parts on request





6.2 MAINTENANCE, GENERAL

6.3 MAINTENANCE MEASURES

requirements specified by the

Keep tools, working area and

replace parts if necessary.

manufacturer.

HYDAC spare parts.

equipment clean.

Spare parts must fulfil the technical

This is always guaranteed for original

After disassembling the filter, clean all

parts, check for damage or wear and

When changing a filter element, a high

level of cleanliness must be observed!

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.

INSTRUCTIONS **6.1 USER INSTRUCTIONS FOR FILTERS**

6. MAINTENANCE



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.



The user must take appropriate action (e.g. venting) to prevent the formation of air pockets.



Repair, maintenance work and commissioning must be carried out by specialist personnel only.

Allow the pressure equipment to cool before handling.

The stipulations of the operating instructions of the machine or system must be followed.



Caution: pressure equipment! Before any work is carried out on the pressure equipment,

ensure the pressure chamber concerned (filter housing) is depressurised.



On no account must any modifications (welding, drilling, opening by force etc.) be carried out on the pressure equipment.



It is the responsibility of the owner to comply with the water regulations of the country concerned.



Statutory accident prevention regulations, safety regulations and safety data sheets for fluids must be observed.



Filter housing must be earthed.



Hydraulic oils and waterpolluting fluids must not be allowed to enter the soil or watercourses or sewer

When working on, or in the vicinity of, hydraulic

systems, naked flames,

spark generation and

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.



When using electrical clogging indicators, the electrical power supply to the system must be

switched off before removing the clogging indicator connector.

6.4 INTERVAL BETWEEN ELEMENT CHANGES

In principle we recommend that the filter element is changed after 1 year of operation at the latest.

When no clogging indicator has been fitted, 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 or 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 fluid power parts/ components and are therefore excluded from the scope of the Machinery Directive. They do not bear the CE mark. Before using these components, ensure compliance with the specifications provided by HYDAC Filtertechnik GmbH in this documentation.

The specifications also contain information on the relevant essential health and safety requirements (based on Machinery Directive 2006/42/EC) that are to be applied by the user. We hereby declare that the filters are intended to be incorporated into machinery within the terms of the Machinery 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. Furthermore, our Terms of Sale and Delivery are available on our website (www.hydac.com).

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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.