

HYDAC

INTERNATIONAL

HYDAC Filtration
**Filter Elements
and Filtration Solutions
for Wind Turbines**



Filter Elements and Filtration Solutions for Wind Turbines.

From **HYDAC**

General Betterfit Range

Filter elements in proven Betamicon®4 element technology in sizes to fit competitors' filters.

Technical details:

Filtration ratings:
3, 5, 10, 20 µm

Standard Filter Element RN 1000

Optimized
for gear lubrication!

Also fitted with high performance Betamicon®4 technology, the Standard Element RN 1000 is particularly suited to wind energy.

Filtration ratings: 3, 6, 10, 25 µm

Element Technology: Betamicon®4

HYDAC standard element technology which has been specially developed to optimize the Life Cycle Cost of machines and systems.

Betamicon®4 elements are best suited to the filtration of high viscosity gear oils.

Filtration ratings: 3, 5, 10, 20 µm

2-Stage Element

Downstream coarse filtration ensures clean oil even with open bypass valve.

Application wherever a high level of reliability is required.

Technical Details:

Filtration ratings:
10 µm (first stage),
50 µm (second stage)

Versions:

- Betamicon®4 (BN4HC)
- Betamicon®4 Premium (BN4HX) (particularly high contamination retention → long service life)
- Option: 5 µm

3-Stage Element

Downstream coarse filtration ensures clean oil even with open bypass valve.

Application wherever a high level of reliability is required.

3-stage design can replace offline filter.

Improved cleaning of oil through the use of 5 µm fine filtration for part of the flow.

Technical details:

Filtration ratings:
5 µm (first stage),
10 µm (second stage) and
50 µm (third stage)

Version: Betamicon®4 (BN4HC)



Clogging Indicator GW

Feature: Analogue pressure sensor and differential pressure sensor in one device
→ enables element change to be planned.

Error conditions can be detected (e.g. missing element, defective element) and bypass valve open / closed (Filter Condition Monitoring).

Suitable for NF filter housing.

Technical details:

Pressure range: 2 bar (options: 3 or 5 bar)

Warning signal at 75 % of the "final value" (can be optimized to customer requirements)

Filter specially designed for transmission connection block

This filter which has been specially developed for the HYDAC transmission connection block (filter block) exceeds the contamination retention and service life of competitor spin-ons (MRO upgrade for old wind turbines with filter block).

Alternatives:

Preference model:

1 Version with housing conversion kit to upgrade to filter element 0800 D.

2 Version with filter cartridge (based on mobile filter cartridge 2.35 MA 010 BN).

Gear Oil Filter NF

The inline filters of the NF filter series are used predominantly in wind turbines.

Standard:

Sizes 1340, 2240 and 2640.

Option:

Sizes 1310, 2210 and 2610.

Technical details:

p_{max} 25 bar

Tank Breather Dryer BDE

Optimized water adsorption thanks to the combination of two efficient adsorbent materials in two separate sections.

Integrated, pleated air filter element increases the contamination retention capacity of the filter.

Option:

Valves are built into the base specifically to protect the adsorbent material when the system is not in operation, so the adsorbent material cannot become saturated.

Technical details:

Contamination retention capacity of the filter element: 2 μ m: 26 g

Maximum water adsorption capacity of the adsorbent (depending on the operating and ambient conditions):

Size 200: 0.25 l

Size 400: 0.50 l

Size 1000: 0.75 l



NF Extension Kit

To extend the NF filter in order to install a larger element with a greater filter area.

This is a way of achieving better contamination retention and a longer service life without having to replace the entire filter.

By upgrading to 2210 BN4HX double the filter area is achieved.

Technical details:

Extension of size 1310 to size 2210 (option: sizes 2610 / 2240 / 2640)





Catalogue: Accumulators 30.000



Catalogue: Fluid Filters 70.000



Cat.: Process Technology 77.000



Catalogue: Filter Systems 79.000



Catalogue: Compact Hydraulics 53.000



Catalogue: Accessories 61.000



Catalogue: Electronics 180.000



Brochure: Cooling Systems 5.700

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