

DAC INTERNATIONAL



Inline Filter RFL Cast Version up to 1300 l/min, up to 40 bar



1. TECHNICAL **SPECIFICATIONS**

1.1 FILTER HOUSING

The filter housings are designed in accordance with international regulations. They consist of a two-piece filter housing with a bolt-on cover plate.

Standard equipment:

- Connections for venting and draining Connection for a clogging indicator
- 1.2 FILTER ELEMENTS Hydac filter elements are validated and their quality is constantly monitored according to the following standards:
- ☐ ISO 2941
- □ ISO 2942
- □ ISO 2943
- □ ISO 3724
- ☐ ISO 3968
- □ ISO 11170 □ ISO 16889
- Contamination retention capacities in g

E	Betamicr	on⊚ (BN	14HC)		
RFL Elements		5 µm	10 µm		
66x 1x0660 R 87.	1 96.5		116.	.1	131.3
85x 1x0850 R	112.1	124.2	149.5	169.	1
95x 1x0950 R 130	.0 144.1	173.3			196.1
130x 1x1300 R	181.0	200.7	241.	4 27	3.1
132x 1x2600 R 36	9.4 409.	4 492.5	557.2		

Filter elements are available with the following pressure stability

20 bar Baltamicron® (BN4HC): Paper (P/HC): 10 bar Wire mesh (W/HC): 20 bar Stainless steel fibre (V): 30 bar

Betamicron®/Aquamicron® (BN4AM): 10 bar

Àquamicron® (AM): 10 bar

These filters are available from our Process Technology Department: HYDAC PROCESS TECHNOLOGY GMBH Industriegebiet Grube König Am Wrangelflöz 1

D-66583 Neunkirchen Tel.: +49 (0)6821 - 86 90-0 Fax: +49 (0)6821 - 86 90-200 Email: prozess-technik@hydac.com

1.3 FILTER SPECIFICATIONS

Nominal pressure	25 bar 40 bar (RFL 662 to 1322 to AD)
Temperature range	-10 °C to +100 °C
Material of filter housing and cover plate	EN-GJS-400-15 : RFL 661 to 1321 GP 240 GH+N : RFL 662 to 1322 1.4581/4571 : RFL 853* On RFL 1321 and 1322 the extension is in steel!
Type of clogging indicator	VM (differential pressure measurement up to 210 bar operating pressure)
Pressure setting of clogging indicator	2 bar (others on request)
Bypass cracking pressure	3 bar (others on request)

1.4 SEALS

NBR (= Perbunan)

1.5 MOUNTING

As inline filter

1.6 SPECIAL MODELS AND **ACCESSORIES**

- Inlet and outlet positioned one above the other
- Counter flanges as welding or blank flanges

1.7 SPARE PARTS

See Original Spare Parts List

1.8 CERTIFICATES AND APPROVALS

Material code (final digit of filter size) - 1: These filters can be supplied with manufacturer's certificates O and M to DIN 55350, Part 18.

Test certificates 3.1 to DIN EN 10204 and approval certificates (Type Approval) for different approval authorities.

Areas of application, amongst others: lubrication.

Material code (final digit of filter size) - 2: These filters are designed according to API 614, which contains guidelines for the design and designation of basic types of oil supply systems for bearings and shaft seals of larger machines.

Material code (final digit of filter size) - 3: Filters for use in separation technology with low viscosity, high viscosity and aggressive fluids as well as gaseous media '

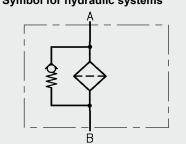
1.9 COMPATIBILITY WITH **HYDRAULIC FLUIDS ISO 2943**

- Hydraulic oils H to HLPD DIN 51524
- ☐ Lubrication oils DIN 51517, API, ACEA, DIN 51515, ISO 6743
- □ Compressor oils DIN 51506
- ☐ Biodegradable operating fluids VDMA 24568 HETG, HEES, HEPG
- Non-flam operating fluids HFA, HFB, HFC and HFD
- Operating fluids with high water content (>50% water content) on

1.10 IMPORTANT INFORMATION

- Filter housing must be earthed
- When using electrical clogging indicators, the electrical power supply to the system must be switched off before removing the clogging indicator connector
- ☐ Filters must be flexibly mounted and not fixed rigidly to the floor or used as a pipe support.

Symbol for hydraulic systems



E 7.118.1/02.08



Filter t	MPLETE FILTER ype —————									
	naterial of element —————									
Stainle	Betamicron⊛ (BN4HC) P/HC Paper \ ss steel fibre W/HC Wi	/ re mesh	AM BN/AN	Aquamic M Betamicro		on®				
RFL: 6	filter or element — 61, 662, 851, 853, 951, 952, 1301, 13 ing pressure —	302, 1321, 13	322							
D = 25										
	nd size of port —									
Type		1 1301 1321								
N	662 853 95 SAE DN 80 (3")	2 1302 13	22							
PQ	SAE DN 100 (4")		1							
R	DIN DN 100	1 0	<u> </u>							
Other r	ominal widths and ANSI ports on red	uest								
BN/HC	on rating in μm ———————————————————————————————————		AM: 40					_		
	25, 50, 100, 200 BN/AM: f clogging indicator	3, 10								
Y plast	c blanking plug in indicator port									
A steel B visua	blanking plug in indicator port	1 ' '	-U							
C elect	rical for othe	r clogging inc chure no. E 7								
D visua	ii and electrical									
1										
Modifie										
37 (I I	cation number									
	itest version is always supplied									
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Supple B. speed GA could GA could GA could GB could KB with L light LED 2 OR O-1 V FPM 33 inlet SAK could GA	stest version is always supplied smentary details sial cracking pressure of bypass (e.g. inter flange as welding flange inter flange as blank flange sout bypass flange twith appropriate voltage (24V, 48V, ight emitting diodes up to 24 Volting groove on the DIN flange (inlet a seals and outlet positioned one above the intamination retainer PLACEMENT ELEMENT 1850, 0950, 1300, 2600 1850, 0950, 1300, 2600 1850, 0950, 100, 200 P/H0, 025, 050, 100, 200 BN4 atterial cylonomic process of the contamination see point 2.1) PLACEMENT CLOGGING INDICAT M differential pressure measurement emitted in the contamination of the contamination cylonomic process of clogging indicator (see point 2.1) cation number	110V, 220V) and outlet) to F other C: 010, 020 AM: 003, 010 OR up to 210 be	Rexroth sta	AM: 040	2-04			<u>∨M</u>		
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3. FILTER CALCULATION / SIZING

The total pressure drop of a filter at a certain flow rate Q is the sum of the housing Δp and element Δp and is calculated as follows:

 Δ ptotal = Δ phousing + Δ pelement

 $\begin{array}{l} \Delta p_{\text{housing}} = (\text{see point 3.1}) \\ \Delta p = Q & \bullet \\ \hline 1000 & 30 \text{ (*see} \end{array}$ point 3.2)

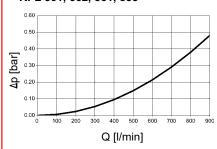
For ease of calculation, our Filter Sizing Program is available on request free of charge.

NEW: Sizing online at <u>www.hydac.com</u>

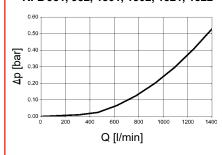
3.1 Ap-Q HOUSING GRAPHS BASED **ON ISO 3968**

The housing graphs apply to mineral oil with a density of 0.86 kg/dm₃ and a kinematic viscosity of 30 mm₂/s. In this case, the differential pressure changes proportionally to the density.

RFL 661, 662, 851, 853



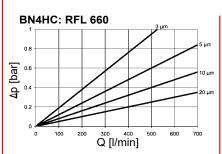
RFL 951, 952, 1301, 1302, 1321, 1322

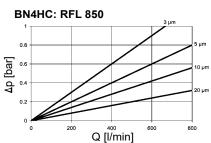


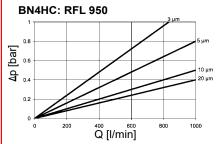
3.2 GRADIENT COEFFICIENTS (SK) FOR FILTER ELEMENTS

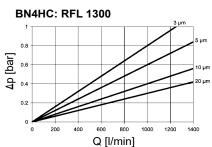
The gradient coefficients in mbar/(l/min) apply to mineral oils with a kinematic viscosity of 30 mm₂/s. The pressure drop changes proportionally to the change in viscosity.

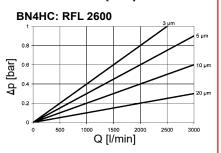
RFL	V	W/HC			
	3 µm	5 µm	10 µm	20 µm	-
660	1.0	0.8	0.6	0.4	0.081
850 950	0.8	0.6	0.4	0.3	0.063
950	0.7	0.6	0.4	0.2	0.054
1300 ().5	0.4	0.3	0.2	0.045
2600	0.3	0.2	0.1	0.1	0.022





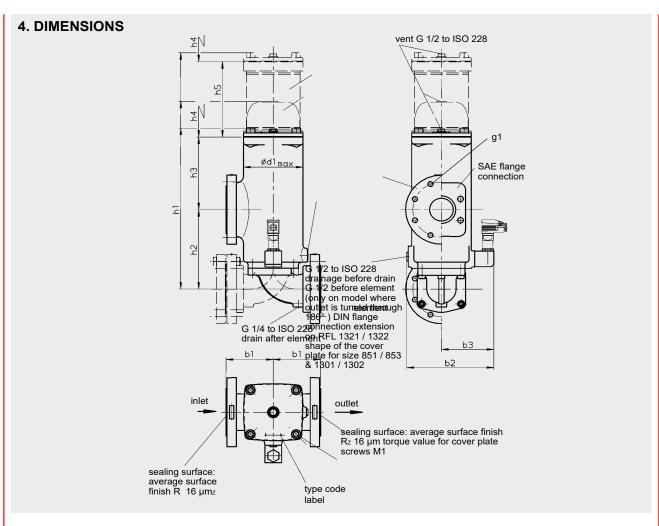






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RFL	Flange port	b1	b2	b3	d1	h1	h2	h3	h4	h5 (Nm)	M1	g1	Weight including element [kg]	Volume of pressure chamber [I]
661	SAE DN 80 DIN DN 80	133	192 184	239	172	465	230	210	350	-	150	M16 M16	36	8.2
662	SAE DN 80 DIN DN 80	133	192 184	239	172	465	230	210	350	-	150	M16 M16	42	8.2
851	SAE DN 80 DIN DN 80	133	192 184	239	172	552	230	210	420 420	-	150 150	M16 M16	38.5	9.5
853	SAE DN 80 DIN DN 80	133	192 184	239	172	552	230	210		-		M16 M16	45	9.5
951	SAE DN 100 DIN DN 100	143	223 215	267	220	523	250	238	380		250	M16 M20	54	13
952	SAE DN 100 DIN DN 100	143	223 215	267	220	523	250	238	380	-	250	M16 M20	67.5	13
1301	SAE DN 100 DIN DN 100	143	223 215	267	220	630	250	238	500	-	250	M16 M20	55.5	16
1302	SAE DN 100 DIN DN 100	143	223 215	267	220	630	250	238	500	-	250	M16 M20	75.5	16
1321	SAE DN 100 DIN DN 100	143	223 215	267	220	1084	250	238	940	561	250	M16 M20	82	31
1322	SAE DN 100 DIN DN 100	143	223 215	267	220	1084	250	238	940	561	250	M16 M20	96	31

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.

HYDAD Filtertechnik GmbH Industriegebiet

7.118.1/02.08