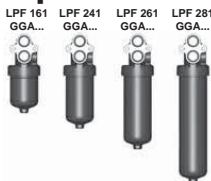


HYDAC INTERNATIONAL



Inline Filter LPF Flange-Mounted, With Integrated Cooler Bypass Valve up to 260 l/min, up to 50 bar



1. TECHNICAL SPECIFICATIONS

1.1 FILTER HOUSING

Construction

The filter housings are designed in accordance with international regulations. They consist of a filter head and a screw-in filter bowl. The built-in check valve in the filter head supplies partial flow to the cooler.

Standard equipment:

- cooler bypass valve
- 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

LPF	Betamicon® (BN4HC)			
	3 µm	5 µm	10 µm	20 µm
161	15.2	16.8	20.2	22.9
241	25.1	27.8	33.5	37.9
261	38.8	43.0	51.7	58.5
281	62.4	69.2	83.2	94.1

Filter elements are available with the following pressure stability values:

Betamicon® (BN4HC):	20 bar
Mobilemicon (MM):	10 bar

1.3 SEALS

Perbunan (= NBR)

1.4 INSTALLATION

As inline filter

1.5 SPECIAL MODELS AND ACCESSORIES

- Seals in FPM, EPDM
- Without clogging indicator connection

1.6 FILTER SPECIFICATIONS

Nominal pressure	50 bar
Fatigue strength	At nominal pressure 10 ⁶ cycles from 0 to nominal pressure
Temperature range	-10 °C to +120 °C
Material of filter head	EN-GJS-400
Material of filter bowl	Aluminium
Type of clogging indicator	VM (differential pressure measurement up to 210 bar operating pressure)
Pressure setting of the clogging indicator	5 bar (others on request)
Bypass cracking pressure	3.4 bar

1.7 SPARE PARTS

See Original Spare Parts List

1.8 CERTIFICATES AND APPROVALS

On request

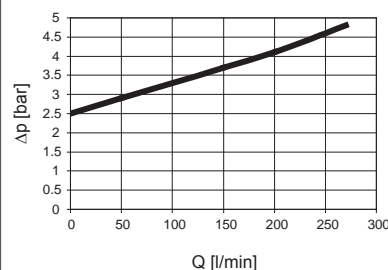
1.9 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- 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
- Fire-resistant fluids HFC and HFD
- Operating fluids with high water content (>50% water content) on request

1.10 FILTER CALCULATION / SIZING

GRAPHS FOR COMPLETE FILTER

The total pressure drop graph applies to mineral oil with a density of 0.86 kg/dm³ and a kinematic viscosity of 30mm²/s.



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.

LPF	Betamicon® (BN4HC)			
	3 µm	5 µm	10 µm	20 µm
161	13.4	10.4	6.5	3.5
241	8.1	6.3	3.9	2.1
261	5.2	4.1	2.5	1.4
281	3.3	2.5	1.6	0.9

Symbol for hydraulic systems

