

HYDAC INTERNATIONAL



Tank Breather Filter BF up to 11000 l/min



1. TECHNICAL SPECIFICATIONS

1.1 FILTER HOUSING

Construction

Breather filter sizes 4, 10, 3 and 30 consist of a housing which is screwed onto the oil tank, and a built-in filter element.

Sizes 5, 52, 7 and 72 have housings which are screwed onto the oil tank and have one or two exchangeable filter element(s).

BF 5 and 52 are fitted with a built-in oil mist trap as standard.

Sizes 8 and 9 consist of a flange for mounting to the tank, an exchangeable element and a cap. The BF 9 also has an oil mist trap which allows the oil to be drained via an oil drain plug.

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

	Paper
BF	3 µm
4	2.9
10	2.9
3	6.2
30	6.2
7	26.1
72	52.2
5	85.1
52	170.2

The filter elements are made from phenolic resin-impregnated paper and cannot therefore be cleaned.

1.3 FILTER SPECIFICATIONS

Temperature range	-30 °C to +100 °C
Material of housing	Steel, zinc-plated/plastic coated (BF 4, 3), Steel (BF 5, 52) Steel, galvanized (BF 8) Aluminium (BF 9) Glass fibre reinforced plastic (BF 10, 30, 7, 72)
Type of clogging indicator	VMF (pressure gauge)
Pressure setting of clogging indicator	0.6 bar K pressure gauge 0.035 bar UBM indicator (others on request)

1.4 SEALS

NBR (= Perbunan) on filter
Polyurethane on element
Cardboard on mounting flange

1.5 SPECIAL MODELS AND ACCESSORIES

- with check/bypass valve to support the suction characteristics of the pump
Not 100% air-tight or leakage-free!
(only BF 10 (except for G¹/₄), 3, 30, 5 and 52)
- with anti-splash device
(only BF 10, 3, 30, 7, 72)
- with connection for a clogging indicator
(only BF 7, 72, 8, 9)
- with manual pressure release
(= BFPR; only BF 10)

1.6 SPARE PARTS

See Original Spare Parts List

1.7 CERTIFICATES, APPROVALS, STANDARDS

BF 7, 72 to Renault standard;
others on request

1.8 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

The standard models are suitable for use with mineral and lubrication oils.
For fire-resistant and biodegradable oils, see tables:
Fire-resistant fluids

BF	HFA	HFC	HFD-R
4, 3, 5, 52 --	—	—	—
10, 30, 7, 72	●	●	—
8, 9	●	●	●

- HFA oil in water emulsion (H₂O content ≥ 80%)
- HFC water polyglycol solution (H₂O content 35–55%)
- HFD-R synthetic, water-free phosphate esters fluids

BF	HTG	HE	PAG	HPG
4, 10, 3, 30 +	—	+	●	●
7, 72, 5, 52	+	+	●	●
8, 9	+	+	●	●

+ suitable for all
● contact our Technical Sales Department – not suitable

- HTG vegetable oil based operating fluids
- HE ester-based synthetic hydraulic fluids
- HPG polyglycol-based synthetic hydraulic fluids
- PAG sub-group of HPG: polyalkylene glycol
- PEG sub-group of HPG: polyethylene glycol

1.9 CHANGING INTERVALS

The filter elements or filters must be replaced as frequently as the fluid filters, but at least every 12 months.

Symbol

