



HIGH PRESSURE FILTERS

FHP

Technical data

Filter body

- > Head: Cast iron (chemical heat treated)
- > Housing: Steel (chemical heat treated)
- > Bypass valve : Steel

Pressure

- > Working pressure : 420 bar (42 MPa)
- > Test pressure : 420 bar (42 MPa)
- > Burst pressure : 840 bar (84 MPa)

Temperature

- > From -25°C to +110°C

Bypass valve

- > Opening pressure 6 bar $\pm 10\%$
- > Other opening pressures on request

Elements type Δp

- > Microfibre filter elements series N: 20 bar
- > Microfibre filter elements series H: 210 bar
- > Stainless steel mesh elements series N: 20 bar
- > Oil flow from exterior to interior.

Seals

- > Standard Nitrile (NBR) series A
- > Optional FPM series V
- > Nitrile (NBR) seals series A, compatible with:
Mineral oils to ISO 2943 - aqueous emulsions
synthetic fluids, water/glycol.
- > V series FPM seals, compatible with:
Synthetic fluids type HS-HFDR-HFDS-HFDU
To ISO 2943

Compatibility

- > Bodies compatible with:
Mineral oils to ISO 2943 - aqueous emulsions
synthetic fluids, water/glycol.
- > Filter elements compatible with:
Mineral oils to ISO 2943 - aqueous emulsions
synthetic fluids, water/glycol.

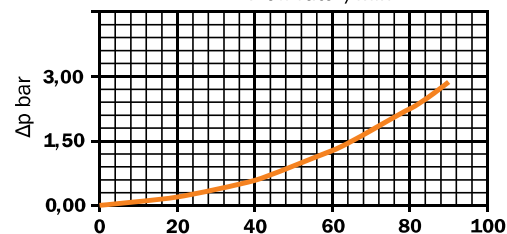
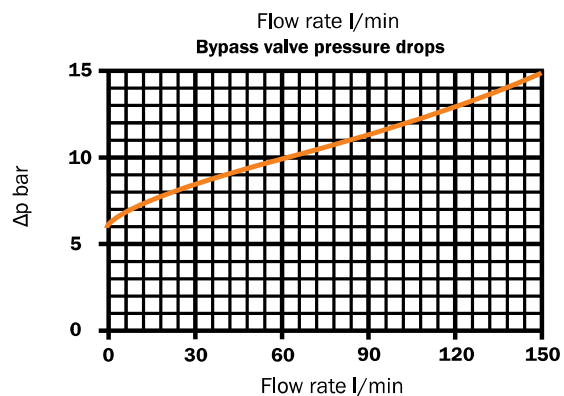
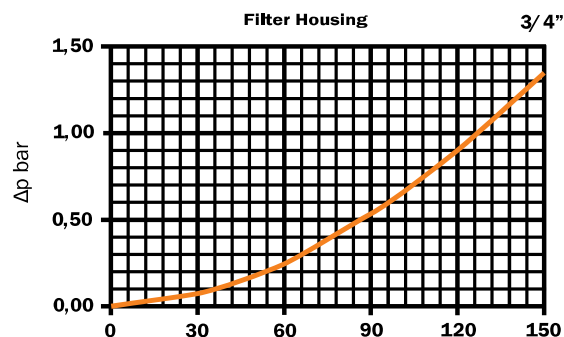
Filter Element Area

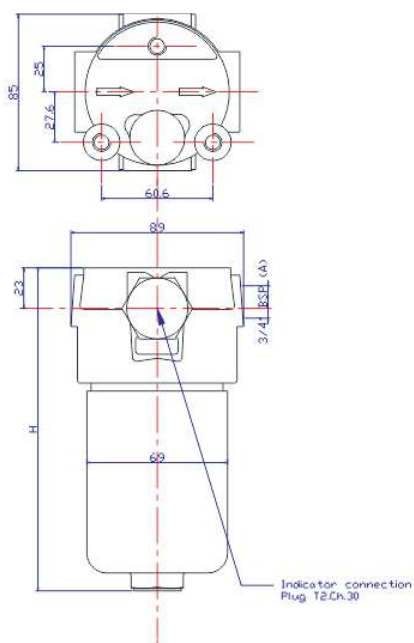
Filter element in stainless steel mesh				Length
Type	1	2	3	4
FHP50	450	700	1000	1300
Values expressed in cm^2				

Pressure drops Δp Housing

The curves are plotted using mineral oil with density of 0,86 kg/dm^3 to ISO 3968.

Δp varies proportional with density





Standard Indicator



Option P03 with indicator
at 90°

Recommended maximum flow rate

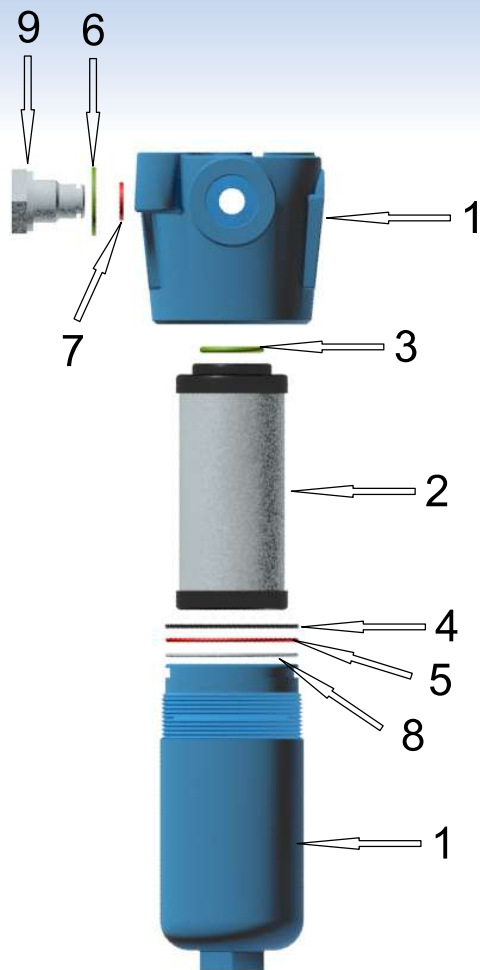
- Pressure drop of complete filter equal to Δp 1.5 bar.
- Oil kinematic viscosity 30 mm²/s (cSt).
- Density 0,86 kg/dm³.
- Connections of filter under test G 3/4".

Filter element type	Flow rate l/min Series N	Flow rate l/min Series H	Filter Length
A03	44	30	1
A06	44	40	
A10	80	58	
A16	82	60	
A25	110	75	
M25	140	-	2
A03	53	45	
A06	58	50	
A10	87	78	
A16	100	90	
A25	125	119	3
M25	140	-	
A03	68	59	
A06	71	62	
A10	100	92	
A16	110	100	4
A25	135	130	
M25	140	-	
A03	85	75	
A06	92	82	
A10	118	106	
A16	120	112	
A25	135	135	
M25	145	-	

Length	H
1	158
2	195
3	237
4	285

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No	Description	FHP050 series FILTER 050 1 - 2 - 3 - 4	
1	Filter Head & Housing	C.I (heat treated) Steel(heat treated)	
2	Filter Element		
	Seal kits	NBR	FPM
3	O-Ring for filter element	O-RING Ø 23.67 x 2.62	
4	O-Ring for housing	O-RING Ø 56.82 x 2.62	
5	Anti-extrusion ring	O-RING Ø 56.03 x 2.18	
6	Gasket	(HNBR)	(FPM)
7	O-Ring	O-RING Ø 12.42 x 1.78	
8	Protection seal	TEFLON	
9	Indicator plug	FT2H	FT2V

Ordering information

Filter assembly **FHP050**

Example: HP050

1	2	3	4	5	6	
2	B	A	D	A25	N	P01

1 - Filter lengths

2 - Bypass valve

	Without bypass
	With bypass
	Without bypass + check valve
	With bypass + check valve

3 - Seals

	NBR
	FPM

4 - Threaded connections

	M18x1.5 ISO 6149
	M22x1.5 ISO 6149
	G 1/2"
	G 3/4"
	1/2" NPT
	3/4" NPT
	SAE 8 (3/4" - 16 UNF)
	SAE 12 (1 1/16" - 12 UN)

5 - Filter elements

	Inorganic microfibre 3 µ	} $\beta_{x(c)} \geq 1000$
	Inorganic microfibre 6 µ	
	Inorganic microfibre 10 µ	
	Inorganic microfibre 16 µ	
	Inorganic microfibre 25 µ	
	Stainless steel mesh 25 µ(N style only)	

6 - Filter elements differential pressure

	20 bar
	210 bar

7 - Options

Filter

	Standard threaded connection for indicator
	Without threaded connection for indicator
	Threaded connection for indicator at 90°
	Customer request

Filter element **HP 050**

1	5	3	6	
2	A10	A	N	P01

Example: HP050