



HIGH PRESSURE FILTERS

FFP PRODUCTS (HYDRAULICS DIVISION)

17, SAI NIKETAN, CHANDAVARKAR LANE, BORIVALI WEST,
MUMBAI 400 092, MAHARASHTRA, INDIA
Tel: +91 22 28925607 Fax: +91 22 28904071
e-mail: info@ffpproducts.com - <http://www.ffpproducts.com>

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.

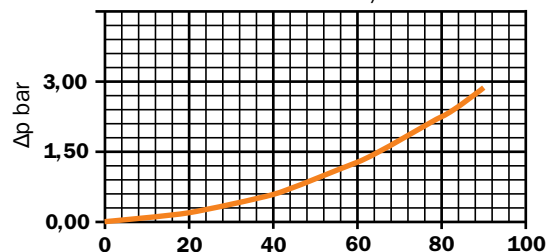
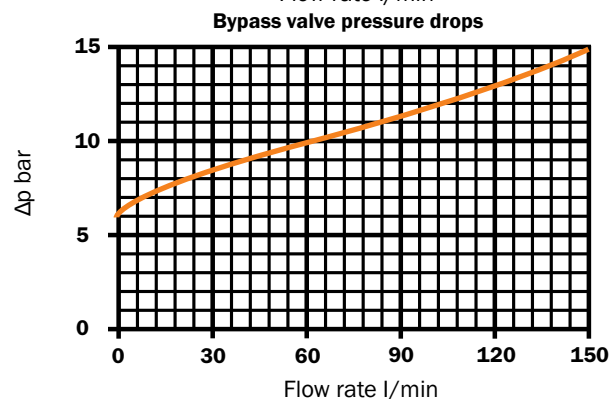
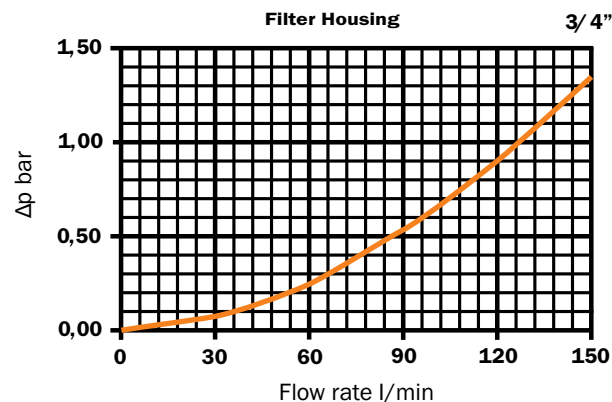
Filter Element Area

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

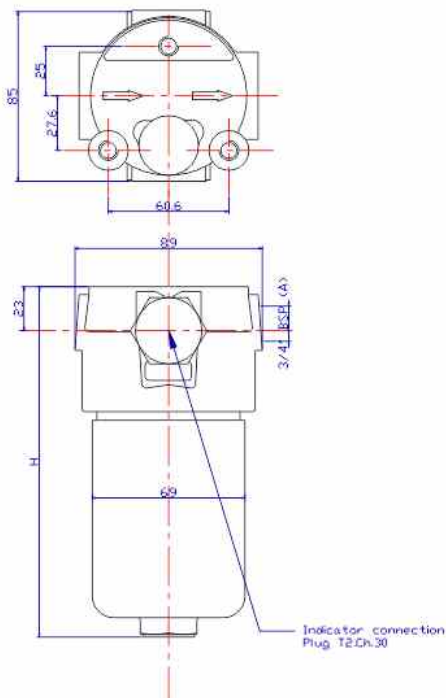
The curves are plotted using mineral oil with density of 0.86 kg/dm^3 b ISO 3968.

Δp varies proportional with density



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Standard Indicator

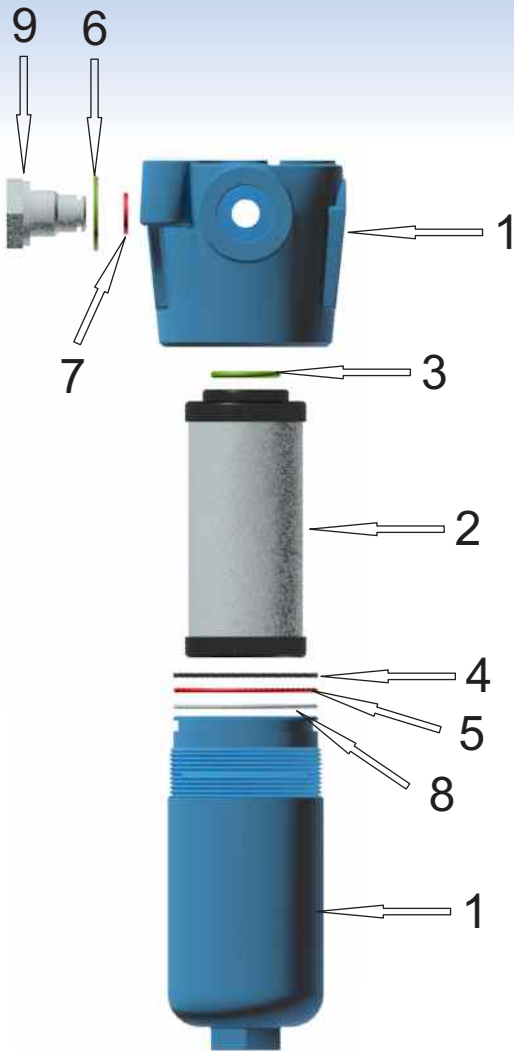


Option P03 with indicator at 90°

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	-	
A03	53	45	2
A06	58	50	
A10	87	78	
A16	100	90	
A25	125	119	
M25	140	-	
A03	68	59	3
A06	71	62	
A10	100	92	
A16	110	100	
A25	135	130	
M25	140	-	
A03	85	75	4
A06	92	82	
A10	118	106	
A16	120	112	
A25	135	135	
M25	145	-	
Length		H	
1		158	
2		195	
3		237	
4		285	



No	Description	FHP050 series FILTER 050 1 - 2 - 3 - 4	
		C.I (heat treated) Steel(heat treated)	
1	Filter Head & Housing		
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

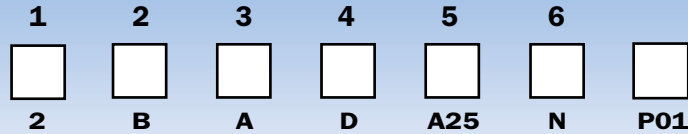
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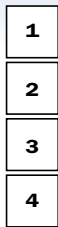
Ordering information

Filter assembly FHP050

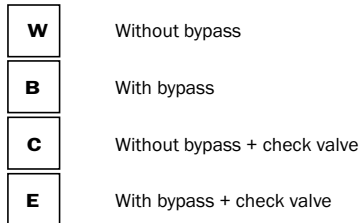
Example: HP050



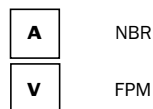
1 - Filter lengths



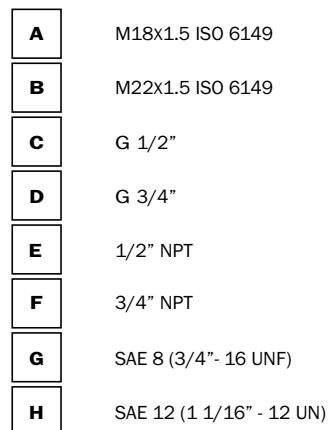
2 - Bypass valve



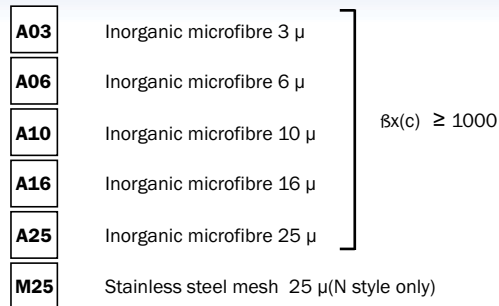
3 - Seals



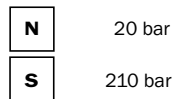
4 - Threaded connections



5 - Filter elements

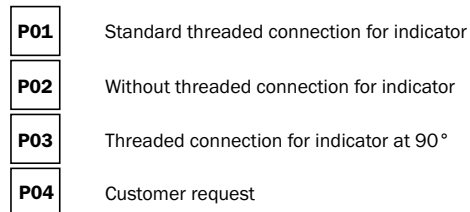


6 - Filter elements differential pressure

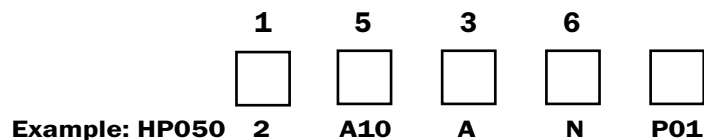


7 - Options

Filter



Filter element HP 050



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