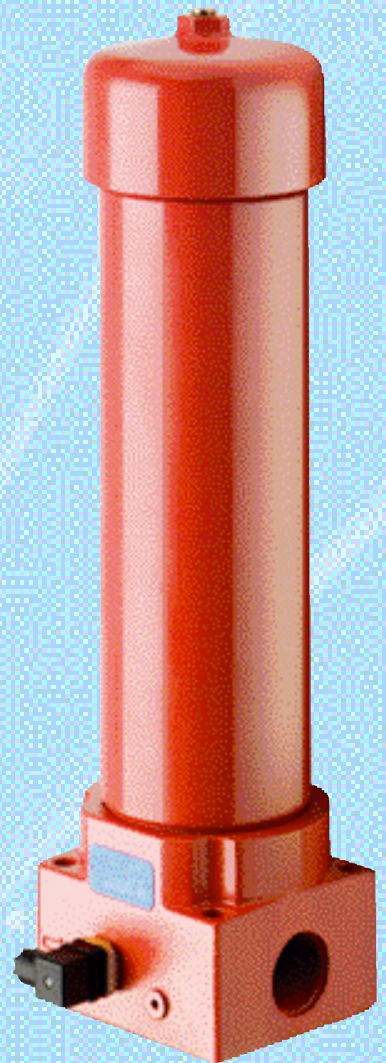
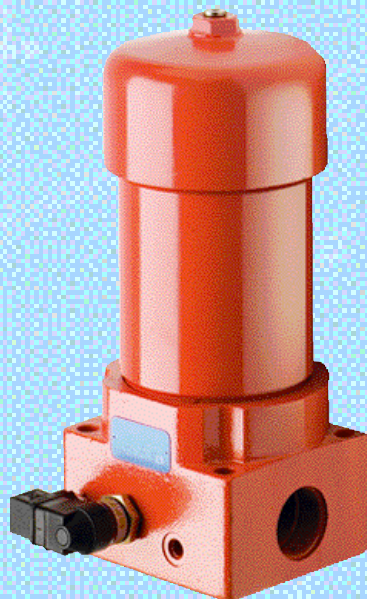
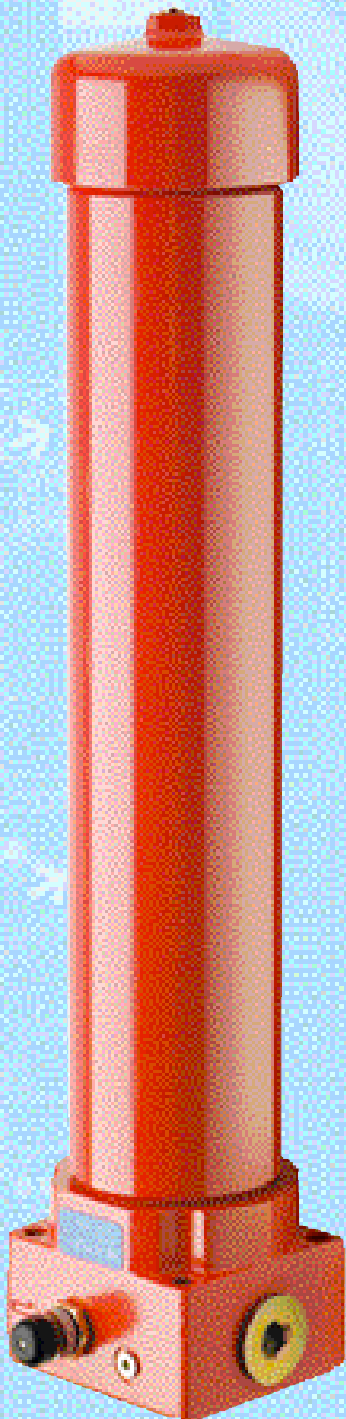
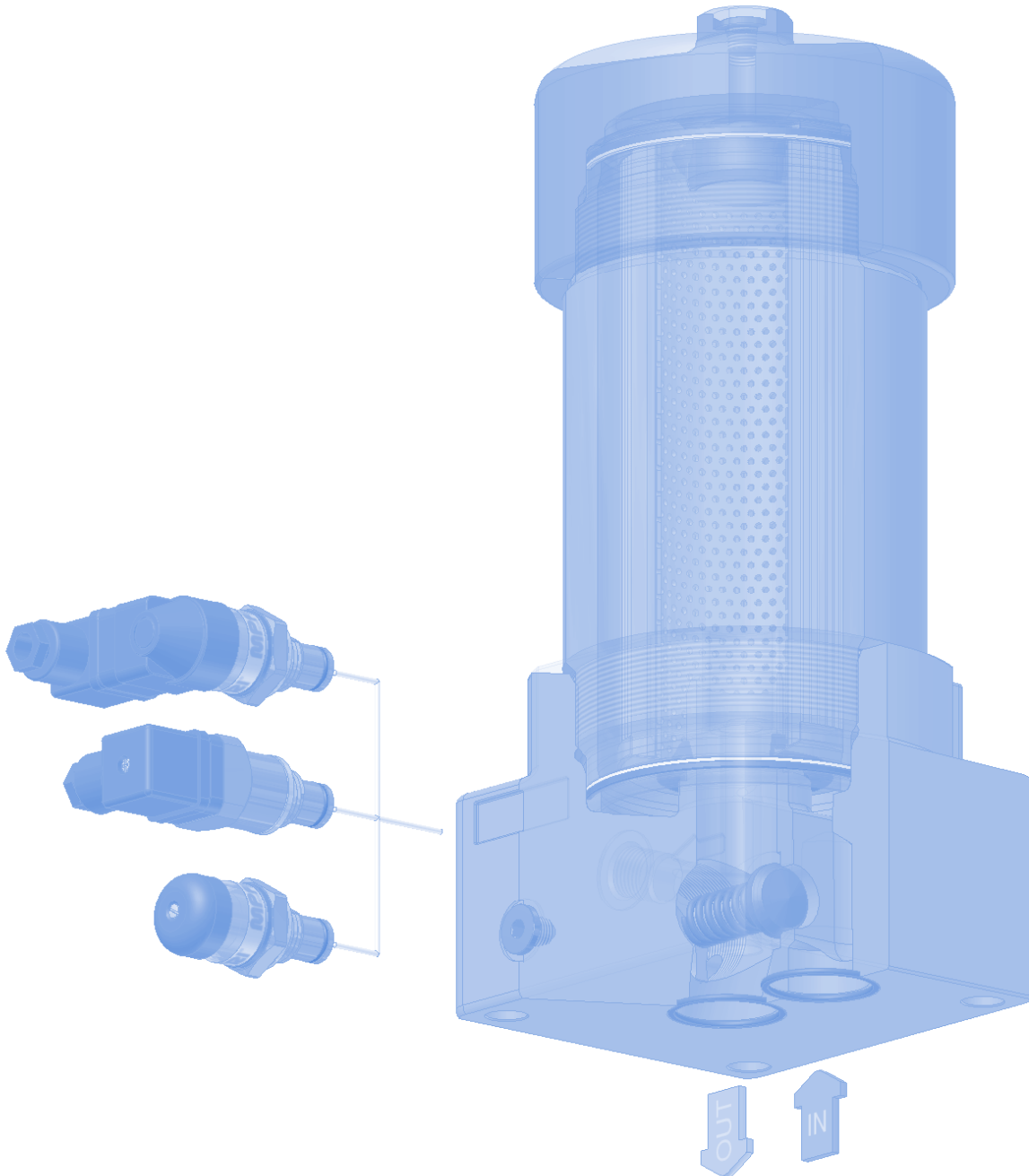


FHF 320



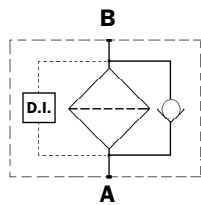
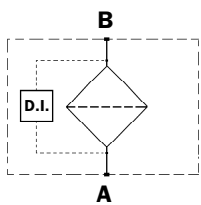
FHF **SERIES** **320**

Working pressure
350 bar



Style S

Style B



Technical data

Filter body (Materials)

- Head: Cast iron (chemical heat treatment)
- Housing: Steel (chemical heat treatment)
- Bypass valve: Steel
- Check valve: Steel

Pressure

- Maximum operating pressure: 350 bar (35 MPa)
- Test pressure: 525 bar (52.5 MPa)
- Burst pressure: 1260 bar (126 MPa)
- Pulsed pressure fatigue test 1,000,000 cycles with pressure from 0 to 350 bar (35 MPa)

Temperature

- From -25°C to +110°C

Bypass valve

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

Elements type Δp

- Elements in micro fibre series N : 20 bar
- Elements in micro fibre series H : 210 bar
- Elements in stainless steel mesh series N : 20 bar
- Oil flow from exterior to interior.

Seals

- Standard Nitrile (NBR) series A
- Optional FPM series V

Weights without filter elements (kg)

Length	1	2	3
• FHF 320	19	35.5	44.5

Filter internal volumes (dm³)

Length	1	2	3
• FHF 320	3.44	5.61	7.75

Connections

In-line Inlet/Outlet
Manifold Inlet/Outlet

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.
- 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

Filter Element Area

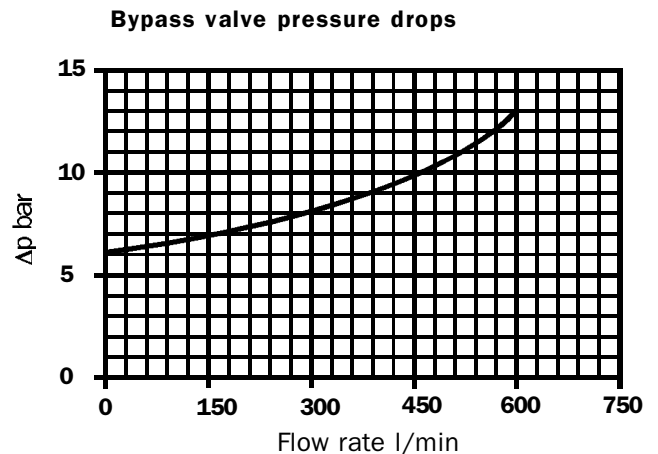
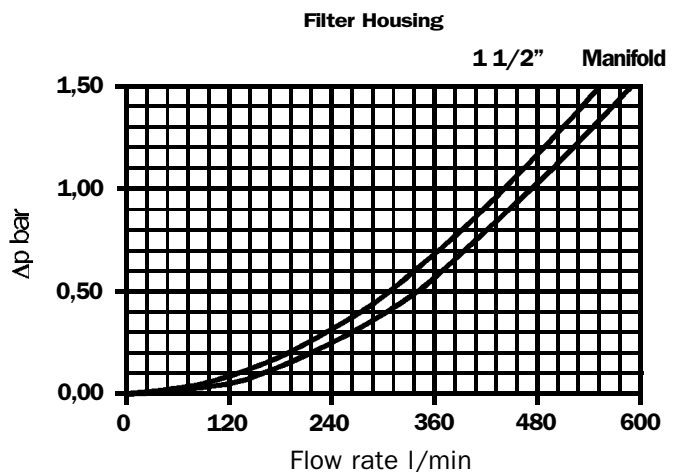
Filter element in stainless steel mesh
Length

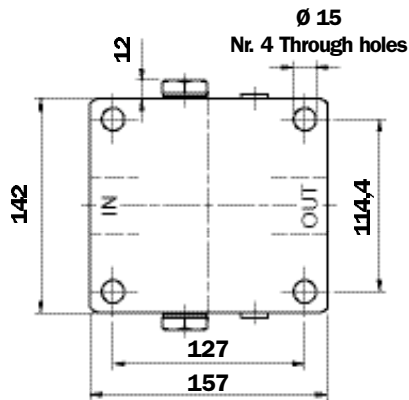
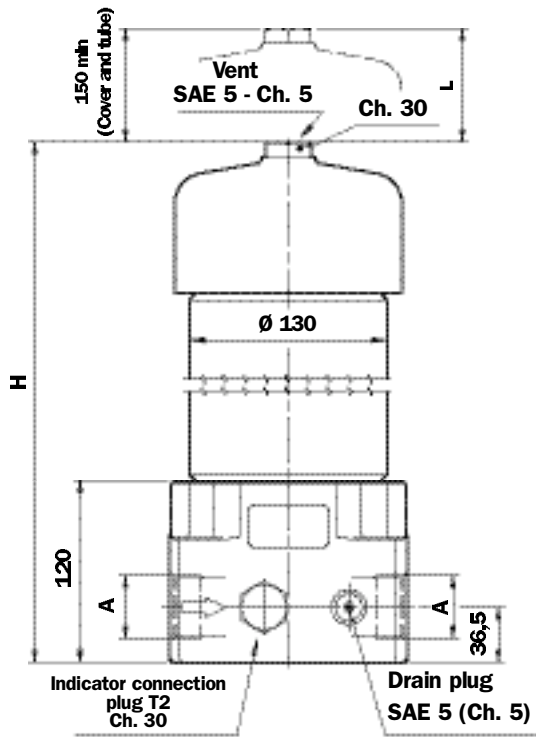
Type	1	2	3
HF320	4150	8050	12250
Values expressed in cm ²			

Pressure drops Δp Housing

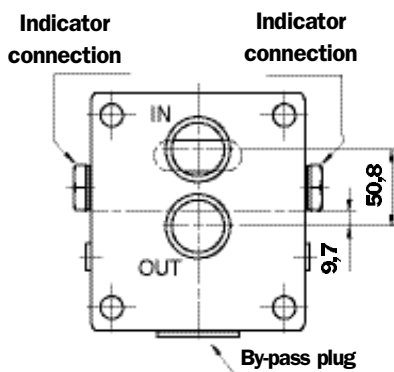
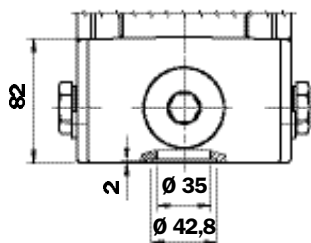
The curves are plotted using mineral oil with density of 0.86 kg/dm³ to ISO 3968.

Δp varies proportional with density.





Manifold version



Recommended maximum flow rate

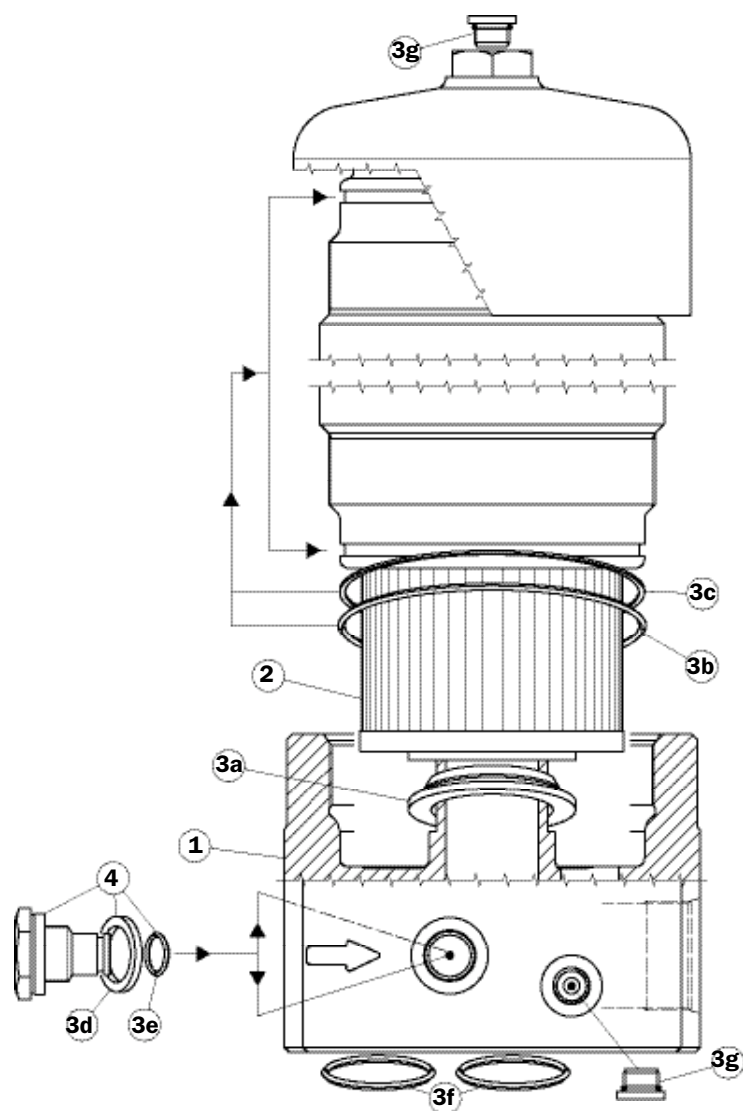
- Pressure drop of complete filter equal to Δp 1.5 bar.
- Oil kinematic viscosity 30 mm²/s (cSt).
- Density 0.86 kg/dm³.
- Connections of filter under test to Manifold.

Filter element type	Flow rate l/min Series N	Flow rate l/min Series H	Filter Length
A03	295	200	1
A06	335	205	
A10	348	280	
A16	400	300	
A25	465	340	
M25	-	-	
A03	380	310	2
A06	400	330	
A10	405	365	
A16	425	380	
A25	485	400	
M25	-	-	
A03	390	350	3
A06	420	355	
A10	425	400	
A16	445	405	
A25	500	420	
M25	-	-	

Filter Length	H mm	L mm
1	368	230
2	603	470
3	843	710

A Threaded Connections	A Flanged Connections
G 1 1/2"	MANIFOLD
1 1/2" NPT	1 1/2" SAE 6000 psi/M
SAE 24 (1 7/8"-12 UN)	
SAE 20 (1 5/8"-12 UN)	1 1/2" SAE 6000 psi/UNC

Spare parts FHF



Pos.	Description	Qty.	FHF Series FILTER 320 1 - 2 - 3	
1	Complete filter	1	See order table	
2	Filter element	1	See order table	
3	Seal kits	1	NBR 02050414	FPM 02050415
3a	O-Ring for filter element	2	01026566	01026585
3b	O-Ring for housing	2	OR 3425 Ø 107.62 x 2.62	
3c	Anti-extrusion ring	2	Parbak 156 Ø 108.41 x 2.18	
3d	Gasket	2	01030058 (HNBR)	01030046 (FPM)
3e	O-Ring	2	OR 2050 Ø 12.42 x 1.78	
3f	O-Ring for head	2	OR 3150 Ø 37.77 x 2.62	
3g	Vent and drain plug	3	SAE 5	
4	Indicator plug	2	T2H	T2V
-	Indicator	1	See order table	

Ordering information FHF

Filter assembly FHF 320

Example: FHF

1	2	3	4	5	6	7	8
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
320	1	S	A	G1	A03	N	P01

Filter element HF 320

Example: HF

1	2	6	4	7	8
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
320	1	A03	A	N	P01

1 - Size

2 - Filter length

3 - Valves

Without bypass

With bypass

4 - Seals

NBR

FPM

5 - Connections

Type **320**

G 1-1/2"

1-1/2" NPT

SAE 24

SAE 20

Manifold

1-1/2" SAE 6000 PSI/M

1-1/2" SAE 6000 PSI/UNC

6 - Filter elements

Inorganic microfibre 3 μ

Inorganic microfibre 6 μ

Inorganic microfibre 10 μ

Inorganic microfibre 16 μ

Inorganic microfibre 25 μ

Stainless steel mesh 25 μ (style N only)

$\beta_x(c) \geq 1000$
see page 10

7 - Filter elements collapse pressure

20 bar

210 bar

8 - Options

MP Filtri standard

Customer request

DIFFERENTIAL INDICATORS (see page 15)

MP Filtri - The filter functions as described in this bulletin are valid exclusively for original MP Filtri filter elements and replacement parts. All rights reserved

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