



Maximum working pressure up to 32 MPa (320 bar) - Flow rate up to 485 l/min



529

FHB GENERAL INFORMATION

Description

Technical data

High Pressure filters

Manifold

Maximum working pressure up to 32 MPa (320 bar) Flow rate up to 485 I/min

FHB is a range of high pressure filter for protection of sensitive components in high pressure hydraulic systems in the mobile machines. They are directly connected to the side of the manifold, through the proper flanged interface.

Available features:

- Manifold connections up to Ø30 mm, for a maximum flow rate of 485 l/min
- Fine filtration rating, to get a good cleanliness level into the system
- Bypass valve, to relieve excessive pressure drop across the filter media
- Check valve, to protect the system against reverse flow
- Low collapse filter element "N", for use with filters provided with bypass valve
- High collapse filter element "H", for use with filters not provided with bypass valve
- High collapse filter element with external support "S", for filter element protection against the back pressure caused by the check valve in filters not provided with the bypass valve
- Visual, electrical and electronic differential clogging indicators

Common applications:

Delivery lines, in any high pressure industrial equipment or mobile machines

Filter housing materials

- Head: Phosphatized cast iron
- Housing: Phosphatized steel
- Bypass valve: Steel
- Check valve: Steel

Pressure

- Working pressure: 32 MPa (320 bar)
- Test pressure: 48 MPa (480 bar)
- Burst pressure: 96 MPa (960 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 32 MPa (320 bar)

Bypass valve

- Opening pressure 600 kPa (6 bar) ±10%
- Other opening pressures on request.

∆p element type

- Microfibre filter elements series N: 20 bar - Microfibre filter elements - series H: 210 bar
- (not available for FHB050)
- Microfibre filter elements series S: 210 bar (only for FHB050)
- Wire mesh filter elements series N: 20 bar
- Fluid flow through the filter element from OUT to IN

Seals

- Standard NBR series A - Optional FPM series V

Temperature From -25 °C to +110 °C

Connections Manifold mounting

Note FHB filters are provided for vertical mounting



Weights [kg] and volumes [dm³]

Filter series		10	Neights [kg		Volumes [dm ³]							
	Length					5	Length					
FHB 050		2.61	2.98	3.39	3.86	5.04		0.21	0.30	0.40	0.52	0.81
FHB 065		3.33	3.69	4.90	-	-		0.20	0.27	0.49		-
FHB 135		6.61	8.21	9.21	-	140	1	0.40	0.73	0.94		() - ()
FHB 320		12.95	15.08	17.37	26.77	-		0.91	1.63	2.40	3.59	-



FHB FHB065 - FHB135 - FHB320

Designation & Ordering code

				COMPLET	E FILTER										
Seri	es and size	_		Configurat	ion example:	FHB32	0 4		S	Α	F1	AOE	H	F	PO1
FHB								-0-5							
17 - C															
Leng	jth FHB065 FH	B135 FHB320					55								
1	•		-												
2	•	• •	-												
3	•	• •	-												
4			-												
Valv	es														
S	Without bypass														
B	With bypass 6 bar														
Т	With check valve, without bypas	SS													
D	With check valve, with bypass 6														
Seal	s NBR			-						-					
A V	FPM			C											
V	FPW														
Con	nections														
F1	Manifold														
B. TTTT IN															
	ation rating (filter media)	A16 Inorgania m	orofibor	16 µm								502			
AUG	Inorganic microfiber 3 µm	A16 Inorganic m													
	Inorganic microfiber 6 µm	A25 Inorganic m	Icroliber	25 µm											
ATU	Inorganic microfiber 10 µm	M25 Wire mesh		25 µm											
			51										62		
				Valv	es										
		Eleme		S B	TD	Exect			178				1 2	3	4
		N	20 bar	•	•		MP Filtri						• •	٠	•
		Н	210 bar	•	•		Maintenar		m the	bottor	n of the	housing			•
						Pxx	Customiz	ed							

				FILTE	R ELEM	ENT										
Element series an	1/ Commission of the second					Configuration exan	nple:	HP320		4	A	06	A		H [P0
HP065 HP135	HP320															
Element length	HP065	HP135	HP320							- 22						
	•		•													
2	•	•	•													
3	•	•	٠													
4			•													
Filtration rating (1 A03 Inorganic m	icrofiber 3 µm		Inorganic microfiber	16 µr												
A06 Inorganic mi			Inorganic microfiber	25 µr												
A10 Inorganic mi	icrofiber 10 µm	M25	Wire mesh	25 µr	n								194			
				Sea				nent Δp	24			Exe	the state of the s	and the second s		
				A	NBR		N	20 ba			(1)	P01			ri stano	Jar
				V	FPM		H	210 ba				Pxx	U	uston	lized	

ACCESSORIES										
Differential indicators	page									
DEA Electrical differential indicator	567	DLE Electrical / visual differential indicator								
DEH Hazardous area electronic differential indicator	567-568	DTA Electronic differential indicator								
DEM Electrical differential indicator	568-569	DVA Visual differential indicator								
DLA Electrical / visual differential indicator	569-570	DVM Visual differential indicator								
Additional features	page									
T2 Plug	572									

page 570 571

571 571

Dimensions





(537)