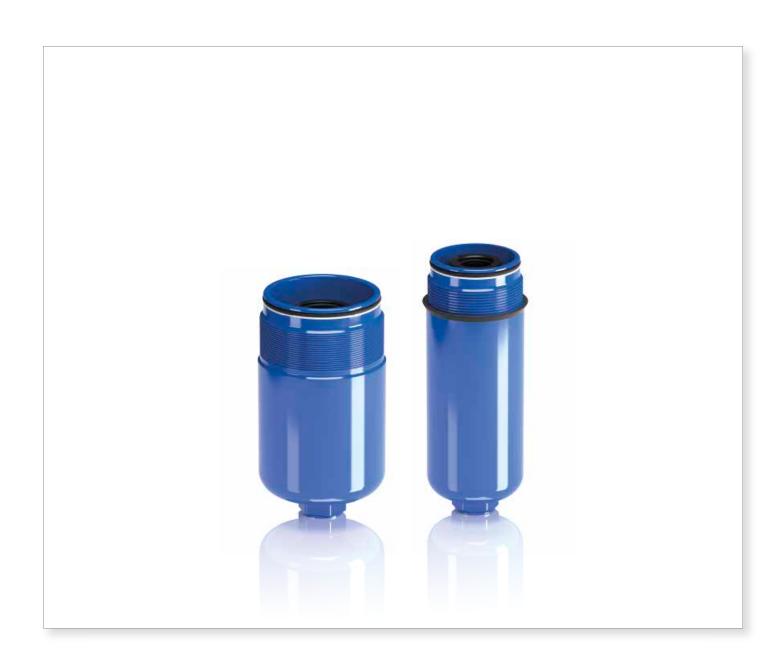




Maximum working pressure up to 42 MPa (420 bar) - Flow rate up to 300 l/min



## INSTALLATION, SERVICE AND MAINTENANCE MANUAL AND SAFETY INSTRUCTIONS





Please scan or click the QR codes to get updated electronic version of the related document.





HPB050 HPB150

For all the QR codes: Scan or click me!



Description Technical data

## High Pressure Bowl Kit

Maximum working pressure up to 42 MPa (420 bar) Flow rate up to 300 l/min

HPB is a range of high pressure bowl kits for protection of sensitive components in high pressure hydraulic systems in the mobile machines. They are directly integrated in the control blocks.

#### **Available features:**

- Fine filtration rating, to get a good cleanliness level into the system
- -Low collapse filter element "N", for use with blocks provided with bypass valve
- High collapse filter element with external support "S", for use with blocks not provided with the bypass valve

#### Filter housing materials

- Housing: Phosphatized steel

#### **Pressure**

- Test pressure: 63 MPa (630 bar)
- Burst pressure: 126 MPa (1260 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 42 MPa (420 bar)

#### Δp element type

- Microfibre / Wire mesh filter elements series N: 20 bar
- Microfibre / Wire mesh filter elements series S: 210 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

#### Note

HPB filters are provided for vertical mounting

## Weights [kg] and volumes [dm<sup>3</sup>]

Filter series	Weights [kg]							Volumes [dm³]					
	Length						Length						
HPB 050		1.10	1.50	1.90	2.40	3.50		0.30	0.45	0.60	0.80	1.20	
HPB 150		2.90	4.90	6.30	-	-		0.45	0.85	1.10	-	-	





High Pressure filters



## Flow rates [I/min]

		Filter element design - N Series							Filter element design - S Series					
Filter series	Length	A03	A06	A10	A16	A25	M25	A03	A06	A10	A16	A25		
HPB 050	1	42	43	79	82	106	147	29	39	57	59	74		
	2	52	57	85	96	121	149	45	49	76	88	114		
	3	66	69	97	106	130	150	58	61	89	99	125		
	4	83	89	113	115	134	152	74	80	106	108	129		
	5	107	110	130	134	141	154	93	95	111	121	139		
	1	81	88	156	163	179	295							
HPB 150	2	142	145	227	230	236	312							
	3	170	180	242	245	263	315							

Maximum flow rate for a complete pressure filter with a pressure drop  $\Delta p = 1.5$  bar.

The reference fluid has a kinematic viscosity of 30 mm<sup>2</sup>/s (cSt) and a density of 0.86 kg/dm<sup>3</sup>.

For different pressure drop or fluid viscosity we recommend to use our selection software available on www.mpfiltri.com.

You can also calculate the right size using the formulas present on the FILTER SIZING paragraph at the beginning of the full catalogue or at the beginning of the filter family brochure. Please, contact our Sales Department for further additional information.

Filter series	Style S
HPB 050	•
HPB 150	•



Hydraulic symbols



Description Technical data

### High Pressure Bowl Kit

Maximum working pressure up to 42 MPa (420 bar) Flow rate up to 300 l/min

HPB is a range of high pressure bowl kits for protection of sensitive components in high pressure hydraulic systems in the mobile machines. They are directly integrated in the control blocks.

#### **Available features:**

- Fine filtration rating, to get a good cleanliness level into the system
- -Low collapse filter element "N", for use with blocks provided with bypass valve
- High collapse filter element with external support "S", for use with blocks not provided with the bypass valve

#### Filter housing materials

- Housing: Phosphatized steel

#### **Pressure**

- Test pressure: 63 MPa (630 bar)
- Burst pressure: 126 MPa (1260 bar)
- Pulse pressure fatigue test: 1 000 000 cycles with pressure from 0 to 42 MPa (420 bar)

#### Δp element type

- Microfibre / Wire mesh filter elements series N: 20 bar
- Microfibre filter elements series S: 210 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

#### Note

HPB filters are provided for vertical mounting

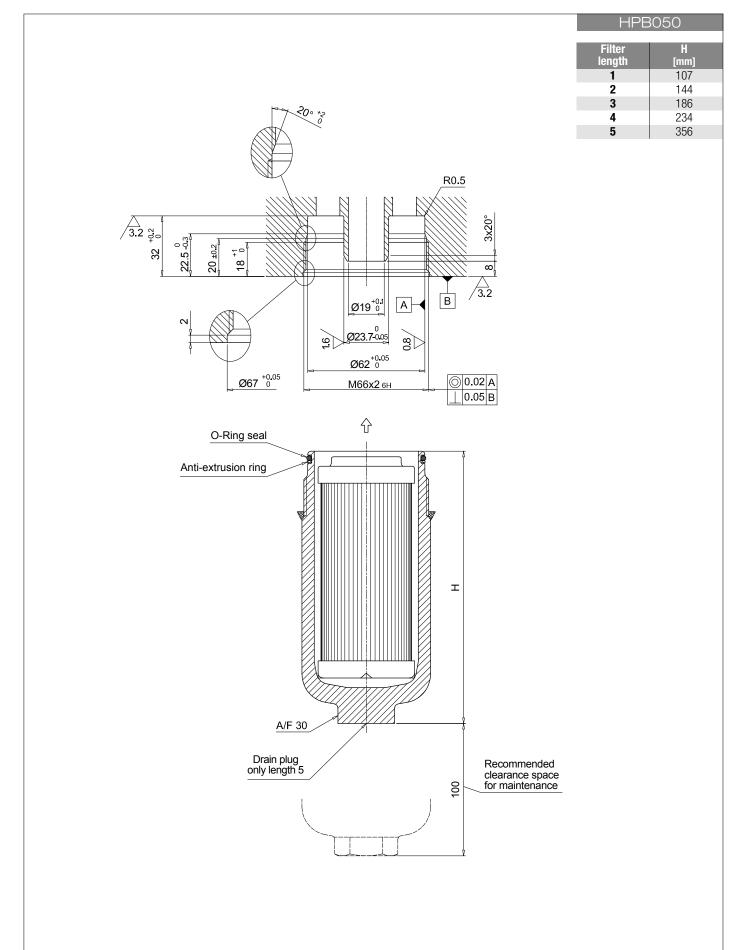
# Weights [kg] and volumes [dm<sup>3</sup>]

Filter series	Weights [kg]							Volumes [dm³]					
	Length						Length						
HPB 050		1.10	1.50	1.90	2.40	3.50		0.30	0.45	0.60	0.80	1.20	
HPB 150		2.90	4.90	6.30	-	-		0.45	0.85	1.10	-	-	



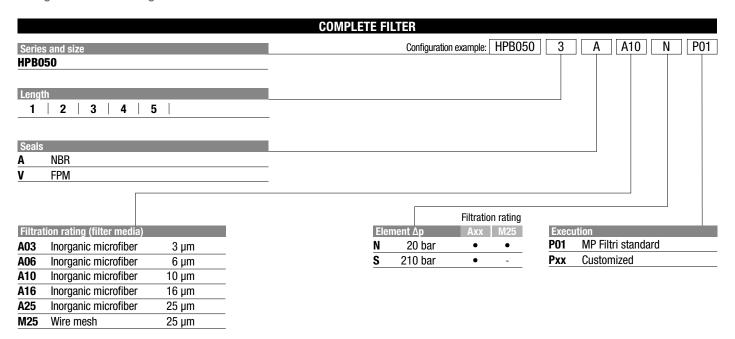


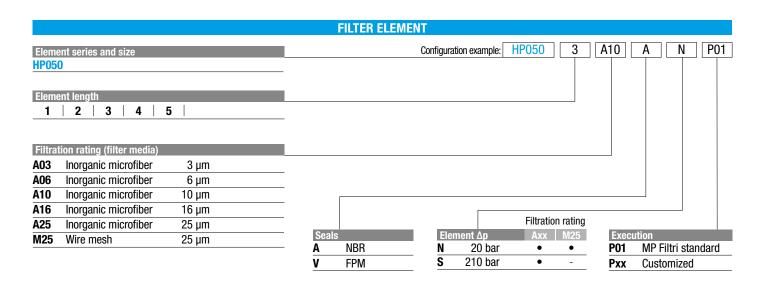
## Dimensions



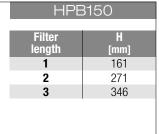


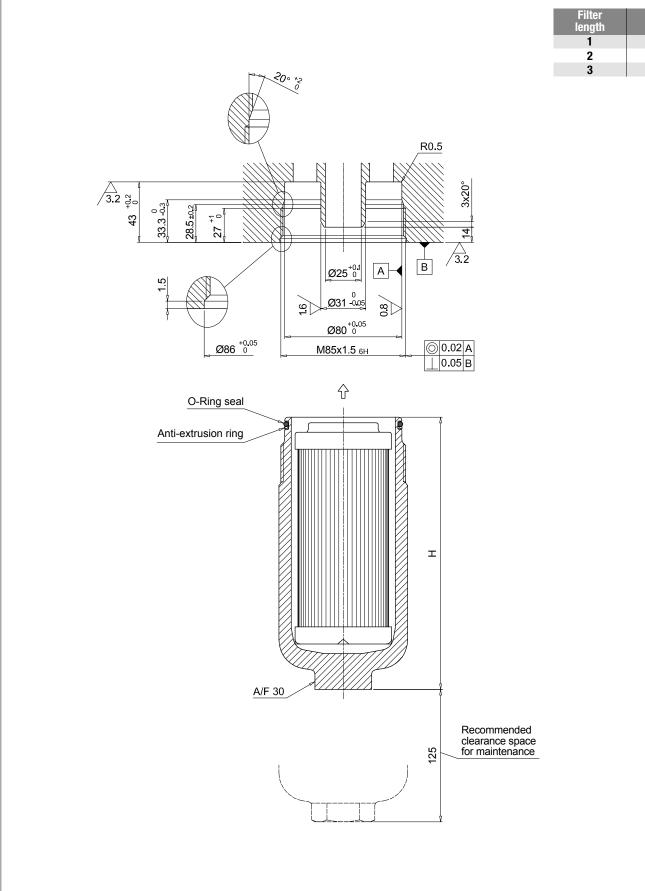
## Designation & Ordering code





## **Dimensions**





# HPB SPARE PARTS

## Order number for spare parts

