

# MSH series

Maximum working pressure up to 3.5 MPa (35 bar) - Flow rate up to 195 l/min



# MSH GENERAL INFORMATION

### Description

## Spin-on filters

# Maximum working pressure up to 3.5 MPa (35 bar) Flow rate up to 195 l/min

MSH is a range of spin-on filters suitable to be used in low pressure lines. They offer a good balance between performances, dimensions and prices. They are directly connected to the lines of the system through the hydraulic fittings.

### **Available features:**

- Female threaded connections up to 1 1/4", for a maximum flow rate of 195 l/min
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Strong sealing between the housing and cans, to be used in heavy applications
- Bypass valve, to relieve excessive pressure drop across the filter media
- Visual, electrical and electronic differential clogging indicators for low pressure applications

### **Common applications:**

- Delivery lines, in economic industrial equipment or mobile machines

### Technical data

### **Filter housing materials**

- Head: Anodized Aluminium
- Bypass valve: Nylon Steel
- Element: Aluminium Painted Steel

### **Bypass valve**

Opening pressure: 250 kPa (2.5 bar)  $\pm 10\%$ 

### Δp element type

- ∆p: 5 bar
- Oil flow from OUT to IN

### **Seals**

- Standard NBR series A
- Optional FPM series V

### **Temperature**

From -20 °C to +110 °C

### Note

MSH filters are provided for vertical mounting



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

Filter series	Weights [kg]	Volumes [dm³]
MSH 050	1.50	0.65
MSH 070	1.90	0.95
MSH 100	3.30	1.80
MSH 150	3.80	2.20

### Cartridge

Thread connections				
Туре	Connection			
CH 050 - 070	M32 x 2			
CH 100 - 150	M45 x 2			

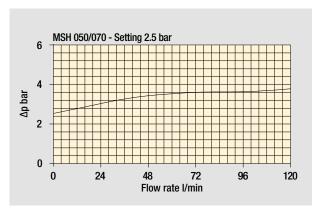
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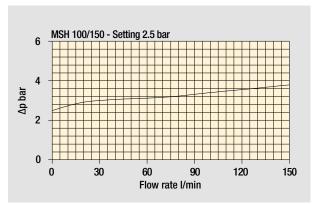
Hydraulic symbols

Filter series	Style S	Style B		
MSH 050	•	•		
MSH 070	•	•		
MSH 100	•	•		
MSH 150	•	•		
	D.I. IN	OUT TO THE PART OF		

### Pressure drop

Bypass valve pressure drop

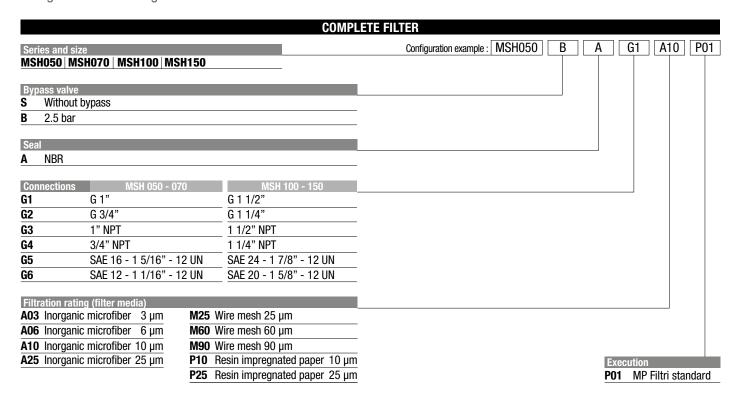


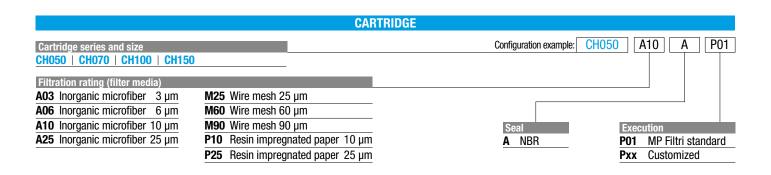


The curves are plotted using mineral oil with density of 0.86 kg/dm³ in compliance with ISO 3968. Δp varies proportionally with density.

# MSH MSH050 - MSH070 MSH100 - MSH150

### Designation & Ordering code





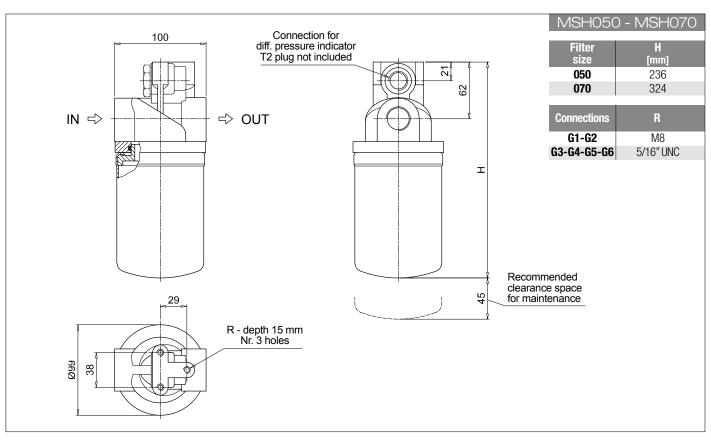
CLOGGING INDICATORS					See page	714-715
Diffe	Differential pressure indicators					
DEA	Electrical differential pressure indicator		DTA	Electronic differential pressure indicator		
DEM	Electrical differential pressure indicator		DVA	Visual differential pressure indicator		
DLA	Electrical / visual differential pressure indicator		DVM	Visual differential pressure indicator		
DLE	Electrical / visual differential pressure indicator					
		PLUGS			See	page 737

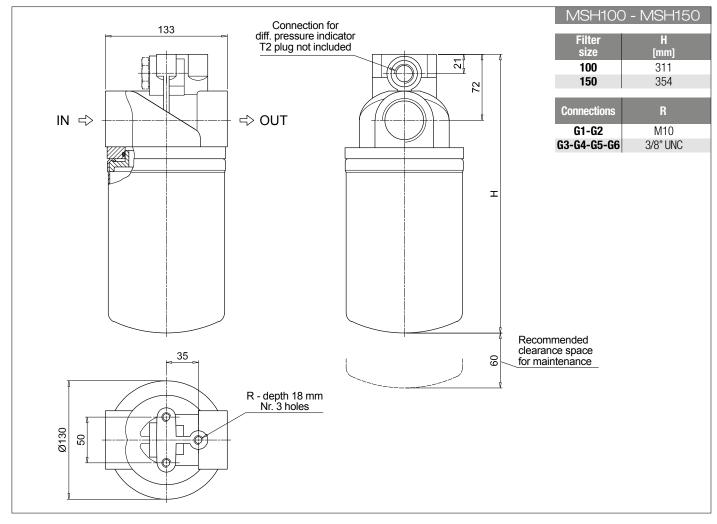
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Plug (not included)

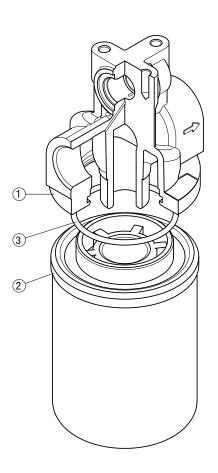
**T2** 

### **Dimensions**





Order number for spare parts



	Q.ty: 1 pc.	Q.ty: 1 pc.	Q.ty: 1 pc.
Item:	1	2	3
Filter series	Filter assembly	Cartridge	Seal code number
MSH 050-070	order orde	See	O-R 167 (ø 63.50 x 3.53)
MSH 100-150		table	O-R 4362 (ø 91.67 x 3.53)

