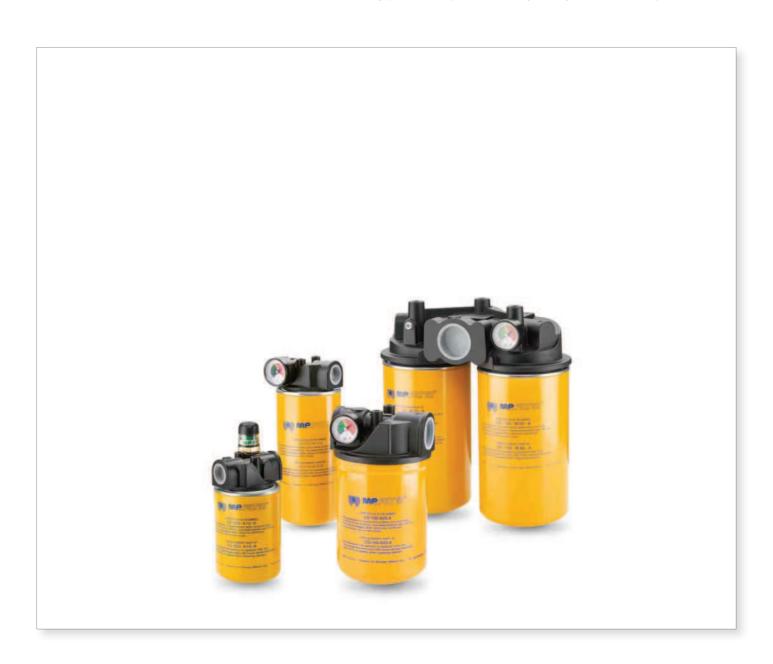


# MPS series

Maximum working pressure up to 1.2 MPa (12 bar) - Flow rate up to 365 l/min



## Description Technical data

## Spin-on filters

## Maximum working pressure up to 1.2 MPa (12 bar) Flow rate up to 365 l/min

MPS is a range of spin-on filters suitable to be used in suction, return and 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 1/2" and flanged connections up to 1 1/2", for a maximum flow rate of 365 l/min
- Fine filtration rating, to get a good cleanliness level into the reservoir
- Water removal elements (CW), to remove the free water from the hydraulic fluid
- Double connection for the cans, to fit both European and American standard elements
- Double cans fitting, to increase the life time of the filter
- Bypass valve, to relieve excessive pressure drop across the filter media
- Visual, electrical and electronic clogging indicators for suction and return applications
- Visual, electrical and electronic differential clogging indicators for low pressure applications

## **Common applications:**

- Suction lines, Return lines, Delivery lines, in economic industrial equipment or mobile machines.
- Off-line filtration tank in economic industrial equipment or mobile machines

## Filter housing materials

- Head: Aluminium
- Bypass valve: Nylon Steel
- Element: Zinc-Plated Steel Painted Steel

#### **Bypass valve**

- Return filter opening pressure: 175 kPa (1.75 bar) ±10%
- Suction filter opening pressure: 30 kPa (0.3 bar) ±10%

### Δp element type

- ∆p: 5 bar
- Fluid flow through the filter element from OUT to IN

#### Seals

Standard NBR - series A

### **Temperature**

From -20 °C to +110 °C

#### Note

MPS filters are provided for vertical mounting



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

Filter series	Weights [kg]	Volumes [dm³]
MPS 050	1.00	0.70
MPS 051	1.05	0.70
MPS 070	1.20	0.95
MPS 071	1.25	0.95
MPS 100	2.10	1.65
MPS 101	2.20	1.65
MPS 150	2.40	2.00
MPS 151	2.50	2.00
MPS 200	3.90	3.00
MPS 250	4.60	3.70
MPS 300-301	5.30	3.40
MPS 350-351	6.00	4.10

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# GENERAL INFORMATION MPS

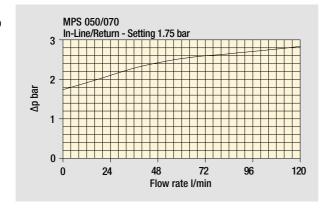
## Hydraulic symbols

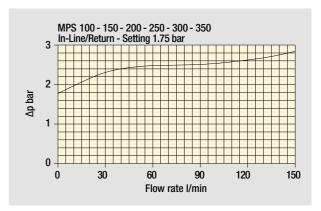
Filter series					
MPS 050	•				
MPS 051		•			
MPS 070	•				
MPS 071		•			
MPS 100	•				
MPS 101		•			
MPS 150	•				
MPS 151		•			
MPS 200			•		
MPS 250			•		
MPS 300				•	
MPS 301					•
MPS 350				•	
MPS 351	01.1.11/D	01.1.11/0	01.1.11	01.1.11/0	01.1.11/D
	Style U/P	Style U/P	Style U	Style U/P	Style U/P
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	Style R/S	Style R/S	Style R/S	Style R/S	Style R/S
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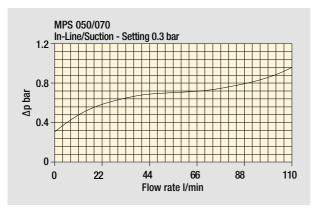
## MPS GENERAL INFORMATION

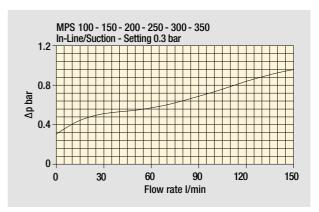
## Pressure drop

Bypass valve pressure drop









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



**CS** 050 - 070 - 100 - 150 **CG - CW** 050 - 070



**CG - CW** 100 - 150



## CW

This series of cartridge removes water from oil while filtering the oil at the same time.
Water absorbent polymers up to 800 times their own weight provide this major feature.

Water holding capacities: CW 050= 240 ml

Ordering code: CW050P10AP01

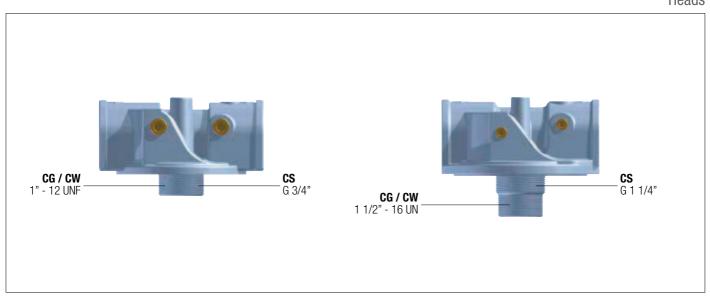
CW 150= 788 ml

Ordering code: CW150P10AP01

Thread connections			
Element	Connection		
CS 050 - 070	G 3/4"		
CS 100 - 150	G 1 1/4"		
CG / CW 050 - 070	1" - 12 UNF		
CG / CW 100 - 150	1 1/2" - 16 UN		

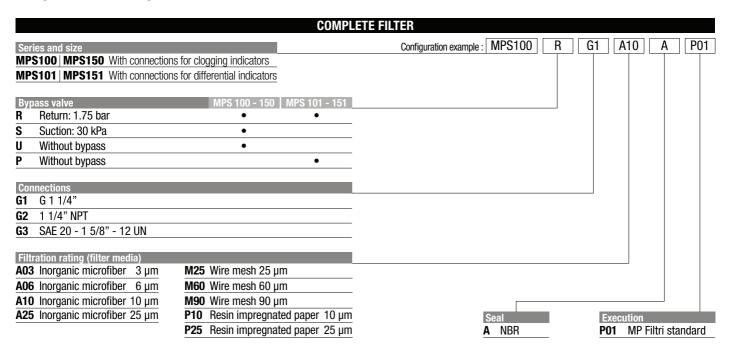
Water holding capacities CW				
	good	poor		
Viscosity	30/46 mm <sup>2</sup> /s (cSt)	> 46 mm <sup>2</sup> /s (cSt)		
H <sub>2</sub> 0 p.p.m.	600/800 p.p.m.	> 800 p.p.m.		
Flow rate	CW050 7/15 I/min CW150 20/40 I/min	CW050 > 20 I/min CW150 > 50 I/min		
Temperature	40/60 °C	< 30 °C		

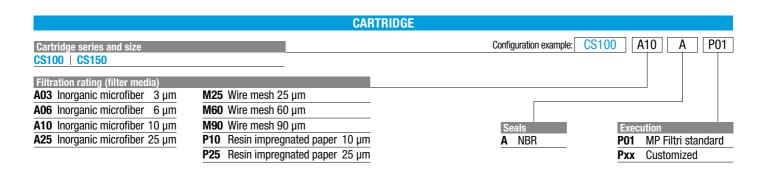
## Heads



## MPS MPS100 - MPS150 MPS101 - MPS151

## Designation & Ordering code





ACCESSORIES							
Clogging indicators on RETURN line	page		page				
BVA Axial pressure gauge	315	BEA Electrical pressure indicator	314				
BVR Radial pressure gauge	315	BEM Electrical pressure indicator	314				
<b>BVP</b> Visual pressure indicator with automatic reset	316	BLA Electrical / visual pressure indicator	314-315				
<b>BVQ</b> Visual pressure indicator with manual reset	316						
Clogging indicators on SUCTION line page			page				
VVB Axial pressure gauge	313	VEB Electrical vacuum indicator	312				
VVS Radial pressure gauge	313	VLB Electrical/visual vacuum indicator	312				
<b>Differential indicators</b> page			page				
<b>DEA</b> Electrical differential indicator	317	<b>DTA</b> Electronic differential indicator	320				
<b>DEM</b> Electrical differential indicator	317-318	<b>DVA</b> Visual differential indicator	320				
<b>DLA</b> Electrical / visual differential indicator	318-319	<b>DVM</b> Visual differential indicator	320				
DLE Electrical / visual differential indicator	319						

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# MPS100 - MPS150 MPS101 - MPS151 MPS

## **Dimensions**

