

# 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, 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 [dm3]

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	

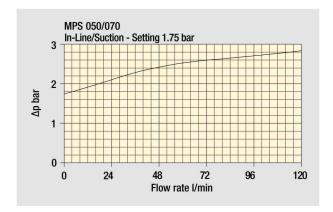


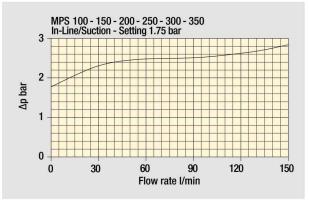
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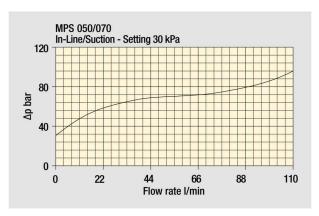
## GENERAL INFORMATION MPS

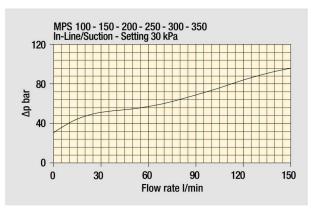
Pressure drop











The curves are plotted using mineral oil with density of 0.86 kg/dm $^3$  in compliance with ISO 3968.  $\Delta p$  varies proportionally with density.

# MPS GENERAL INFORMATION

### 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	Style U/P	Style U/P	Style U	Style U/P	• Style U/P
				100	
	OUT T III	OUT TO THE PROPERTY OF THE PRO	OUT	OUT II	OUT TO THE PROPERTY OF THE PRO
	Style R/S	Style R/S	Style R/S	Style R/S	Style R/S
	OUT TO THE STATE OF THE STATE O	OUT T	OUT T T IN	OUT THE STATE OF T	OUT TO THE PROPERTY OF THE PRO

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







#### 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** 

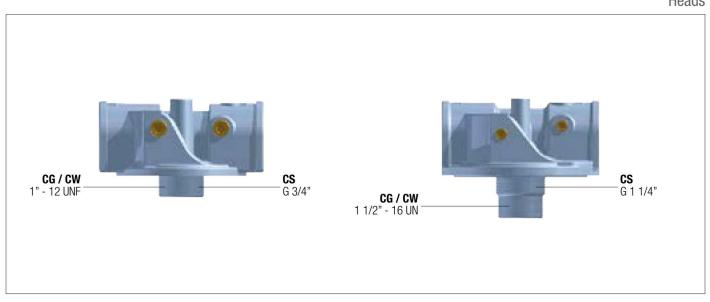
CW 150= 788 ml

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	

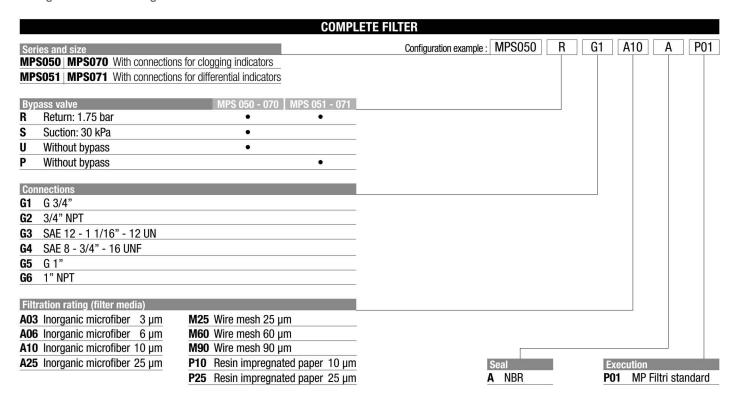
Water holding capacities CW			
good poor			
Viscosity	30/46 mm2/s (cSt)	> 46 mm2/s (cSt)	
H <sub>2</sub> 0 p.p.m.	600/800 p.p.m.	> 800 p.p.m.	
Flow rate	CW050 7/15 I/min CW150 20/40 I/min	CW050 > 20 I/min CW150 > 50 I/min	
Temperature	40/60 °C	< 30 °C	

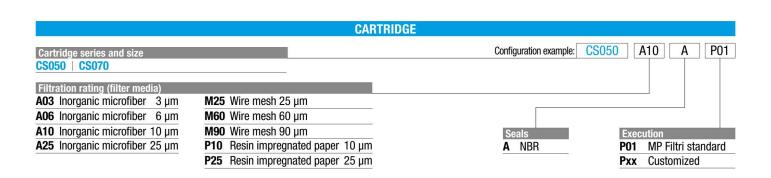
#### Heads



# MPS mps050 - mps070 mps051 - mps071

#### Designation & Ordering code





	ACCESSORIES					
Clogg	Clogging indicators on RETURN line page				page	
<b>BVA</b>	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	
BVQ	Visual pressure indicator with manual reset	316				
Clogg	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	
Diffe	Differential indicators page				page	
DEA	Electrical differential indicator	317	DTA	Electronic differential indicator	320	
DEM	Electrical differential indicator	317-318	DVA	Visual differential indicator	320	
DLA	Electrical / visual differential indicator	318-319	DVM	Visual differential indicator	320	
DLE	Electrical / visual differential indicator	319				