

MPS series

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



Description

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

Technical data

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

- Δp: 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



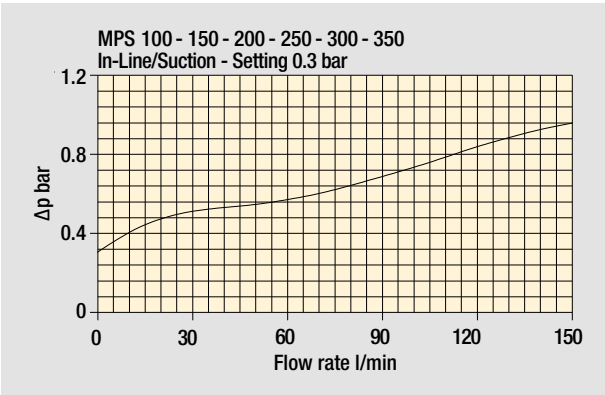
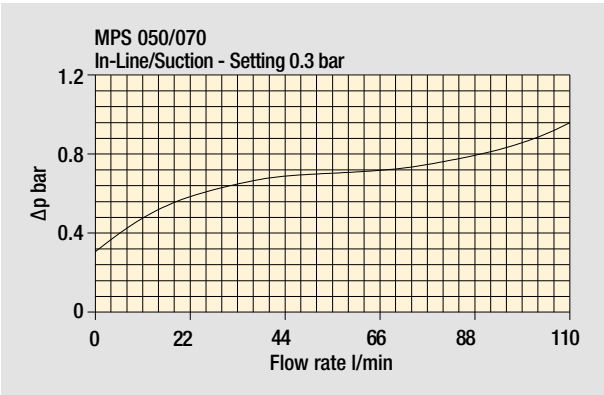
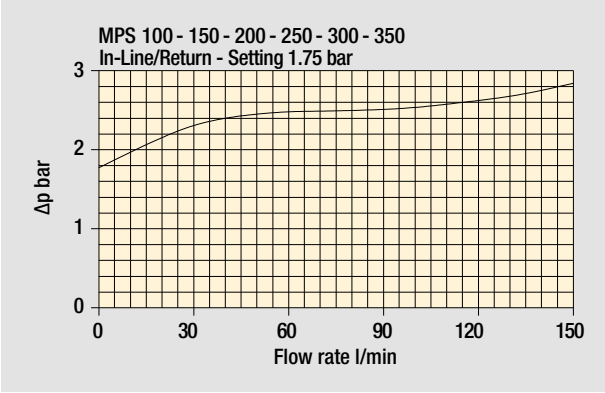
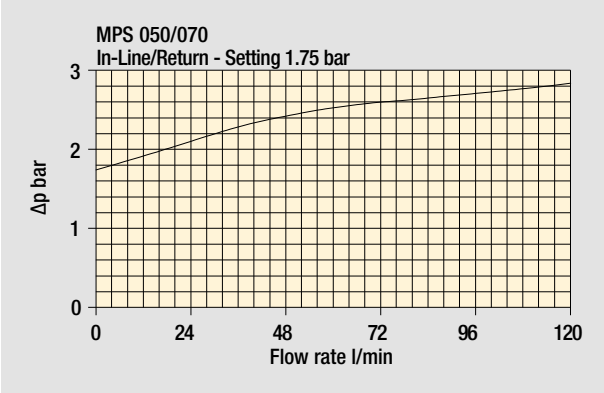
Weights [kg] and volumes [dm³]

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

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
	Style R/S	Style R/S	Style R/S	Style R/S	Style R/S

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.

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.

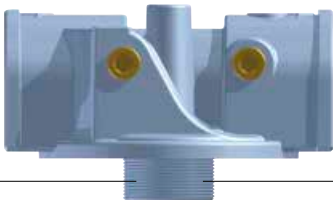
Water holding capacities:
CW 050= 240 ml
Ordering code: **CW050P10AP01**

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

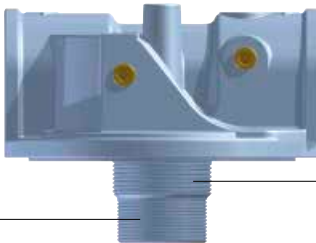
Water holding capacities CW		
	good	poor
Viscosity	30/46 mm ² /s (cSt)	> 46 mm ² /s (cSt)
H ₂ O p.p.m.	600/800 p.p.m.	> 800 p.p.m.
Flow rate	CW050 7/15 l/min CW150 20/40 l/min	CW050 > 20 l/min CW150 > 50 l/min
Temperature	40/60 °C	< 30 °C

CG / CW
1" - 12 UNF



CS
G 3/4"

CG / CW
1 1/2" - 16 UN



CS
G 1 1/4"

MPS MPS050 - MPS070 MPS051 - MPS071

Designation & Ordering code

COMPLETE FILTER

Series and size

MPS050 | MPS070

With connections for clogging indicators

MPS051 | MPS071

With connections for differential indicators

Bypass valve

MPS 050 - 070

MPS 051 - 071

R

Return: 1.75 bar

•

•

S

Suction: 30 kPa

•

U

Without bypass

•

P

Without bypass

•

Connections

G1

G 3/4"

G2

3/4" NPT

G3

SAE 12 - 1 1/16" - 12 UN

Filtration rating (filter media)

A03

Inorganic microfiber

3 µm

A06

Inorganic microfiber

6 µm

A10

Inorganic microfiber

10 µm

A25

Inorganic microfiber

25 µm

M25

Wire mesh

25 µm

M60

Wire mesh

60 µm

M90

Wire mesh

90 µm

P10

Resin impregnated paper

10 µm

P25

Resin impregnated paper

25 µm

Configuration example :

MPS050

R

G1

A10

A

P01

Seal

A

NBR

Execution

P01

MP Filtri standard

CARTRIDGE

Cartridge series and size

CS050 | CS070

Filtration rating (filter media)

A03

Inorganic microfiber

3 µm

A06

Inorganic microfiber

6 µm

A10

Inorganic microfiber

10 µm

A25

Inorganic microfiber

25 µm

M25

Wire mesh

25 µm

M60

Wire mesh

60 µm

M90

Wire mesh

90 µm

P10

Resin impregnated paper

10 µm

P25

Resin impregnated paper

25 µm

Configuration example:

CS050

A10

A

P01

Seals

A

NBR

Execution

P01

MP Filtri standard

Pxx

Customized

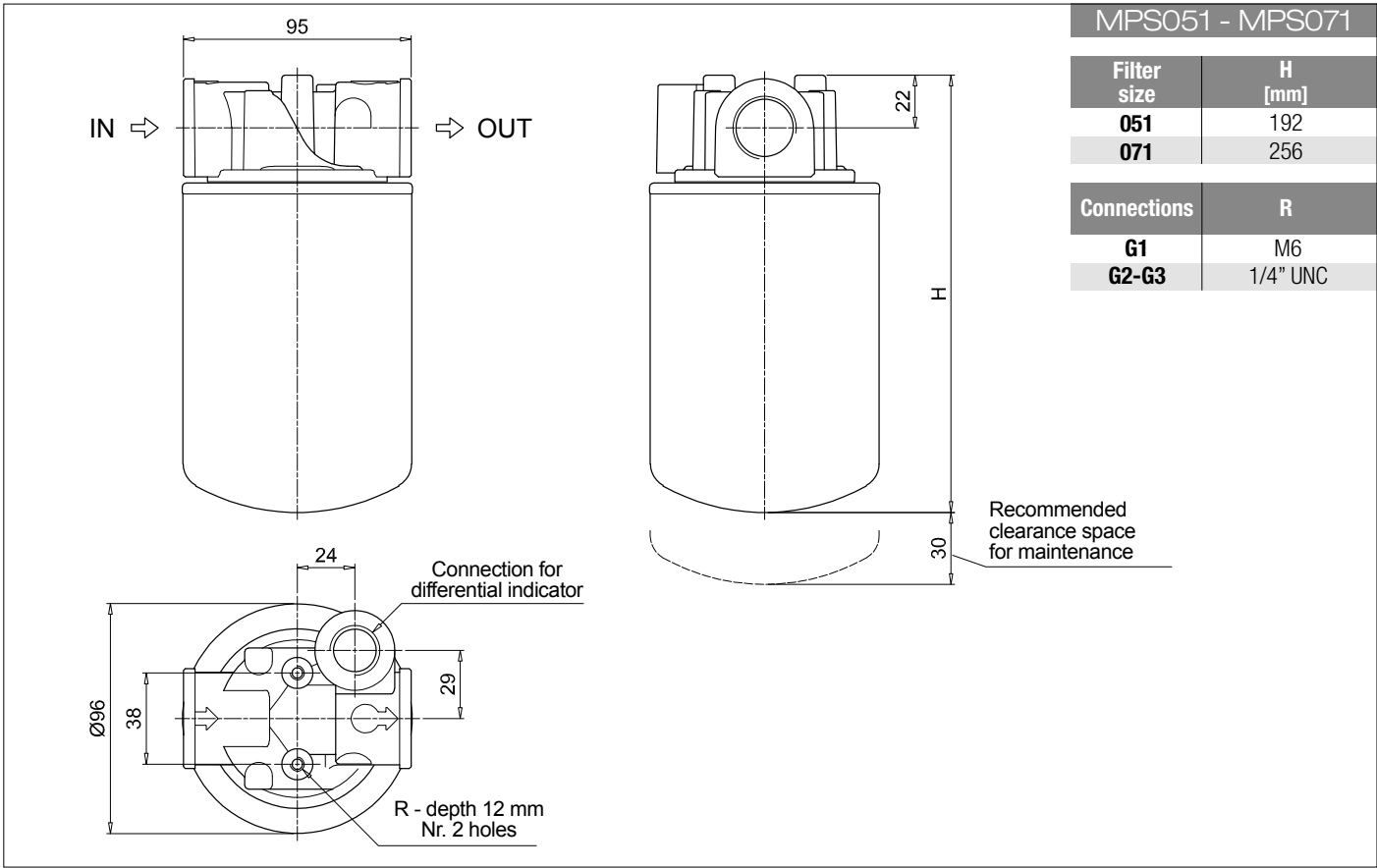
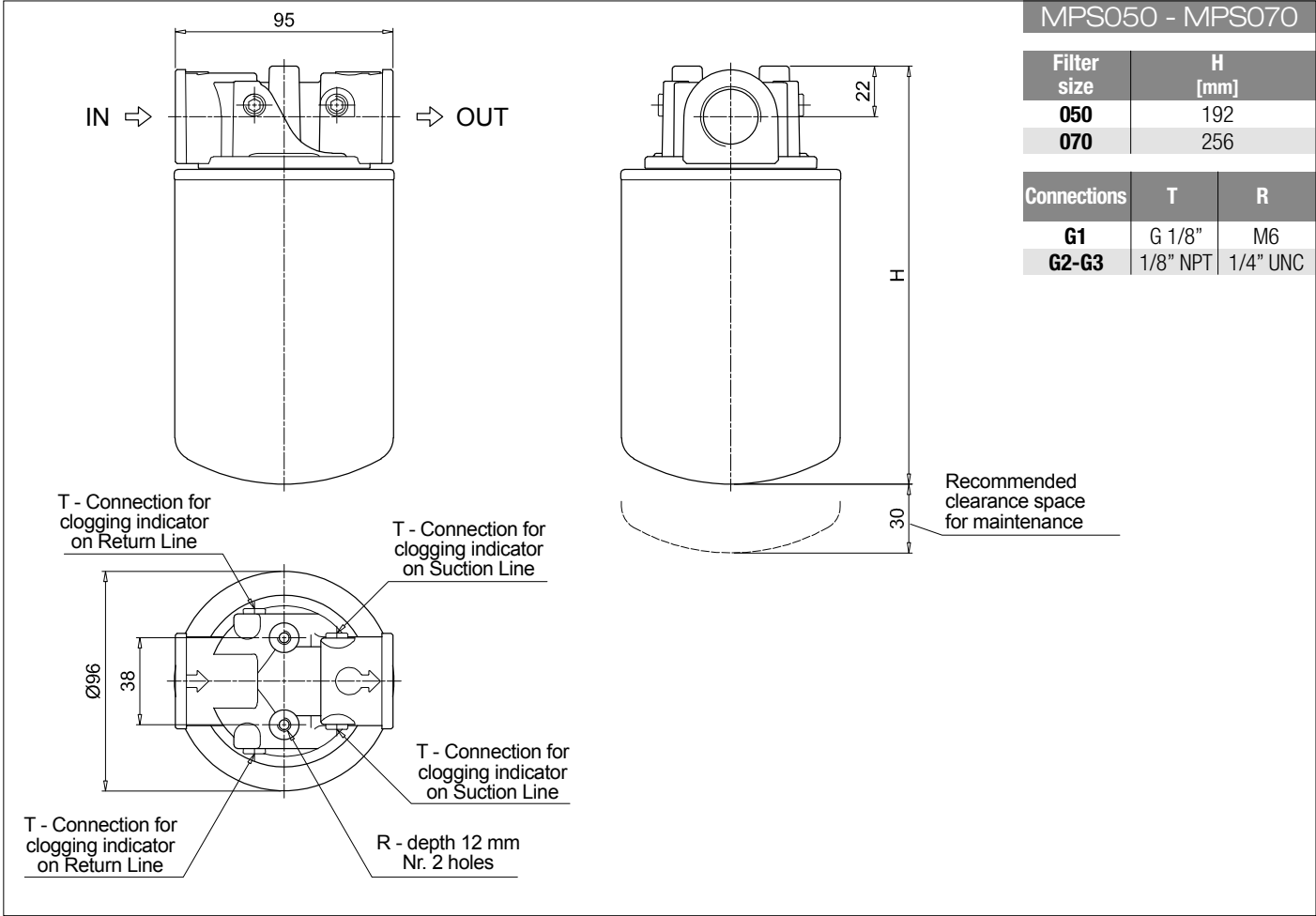
ACCESSORIES					
Clogging indicators on RETURN line		page	page		
BVA	Axial pressure gauge	315	BEA	Electrical pressure indicator	314
BVR	Radial pressure gauge	315	BEM	Electrical pressure indicator	314
BVP	Visual pressure indicator with automatic reset	316	BLA	Electrical / visual pressure indicator	314-315
BVQ	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
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			

Spin-on filters

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MP FILTRI

ТОВ "Промислова Гідравліка": <https://promhydraulic.com.ua/ua/>
Телефонуйте: +380 (95) 670-15-32, +380 (98) 533-91-67, +380 (96) 244-48-42



MPS MPS100 - MPS150 MPS101 - MPS151

Designation & Ordering code

COMPLETE FILTER

Series and size

MPS100 | MPS150 With connections for clogging indicators

MPS101 | MPS151 With connections for differential indicators

Bypass valve

MPS 100 - 150 | MPS 101 - 151

R Return: 1.75 bar

S Suction: 30 kPa

U Without bypass

P Without bypass

Connections

G1 G 1 1/4"

G2 1 1/4" NPT

G3 SAE 20 - 1 5/8" - 12 UN

Filtration rating (filter media)

A03 Inorganic microfiber 3 µm

A06 Inorganic microfiber 6 µm

A10 Inorganic microfiber 10 µm

A25 Inorganic microfiber 25 µm

M25 Wire mesh 25 µm

M60 Wire mesh 60 µm

M90 Wire mesh 90 µm

P10 Resin impregnated paper 10 µm

P25 Resin impregnated paper 25 µm

Configuration example :

MPS100

R

G1

A10

A

P01

Seal

A NBR

Execution

P01 MP Filtri standard

CARTRIDGE

Cartridge series and size

CS100 | CS150

Filtration rating (filter media)

A03 Inorganic microfiber 3 µm

A06 Inorganic microfiber 6 µm

A10 Inorganic microfiber 10 µm

A25 Inorganic microfiber 25 µm

M25 Wire mesh 25 µm

M60 Wire mesh 60 µm

M90 Wire mesh 90 µm

P10 Resin impregnated paper 10 µm

P25 Resin impregnated paper 25 µm

Configuration example:

CS100

A10

A

P01

Seals

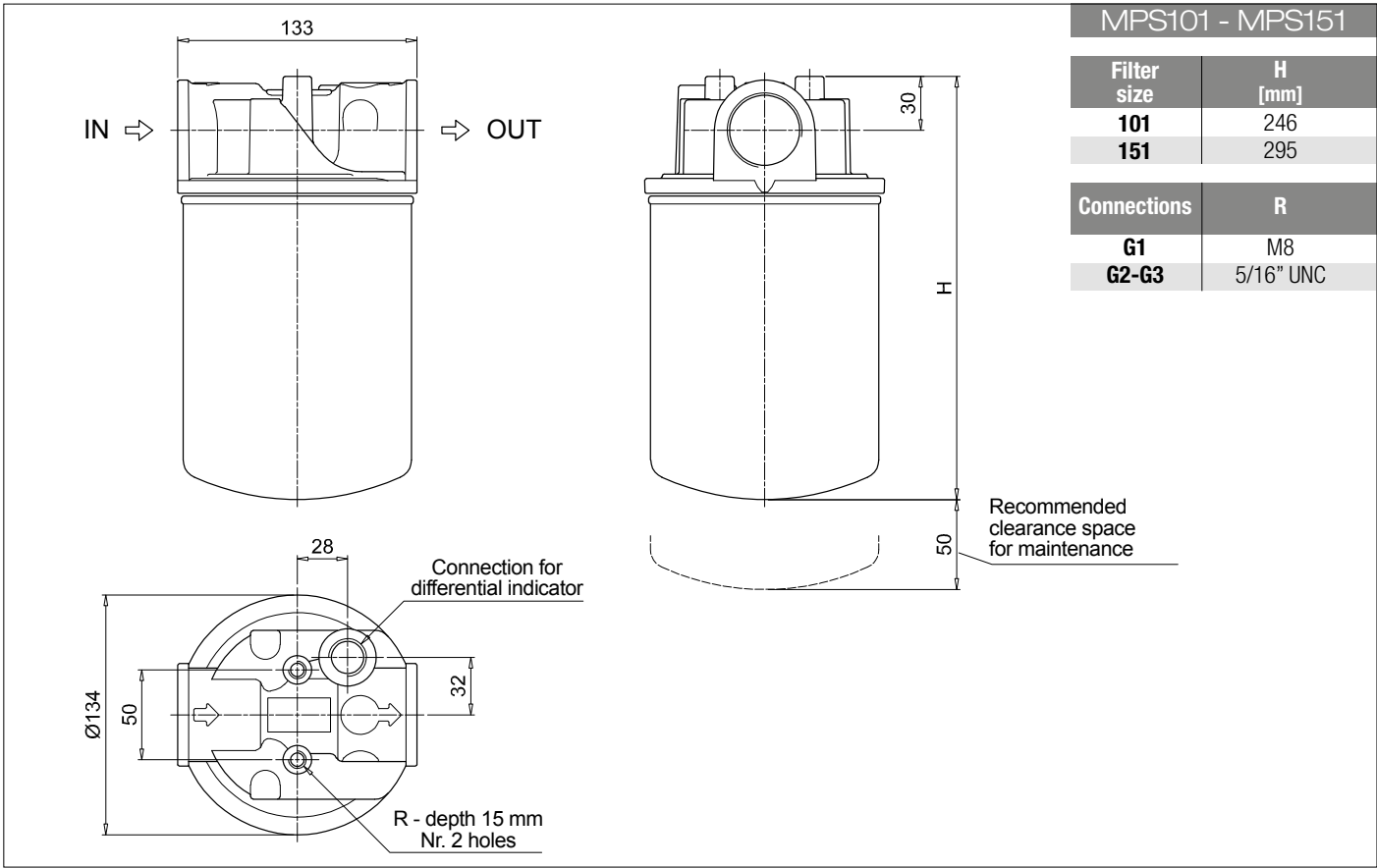
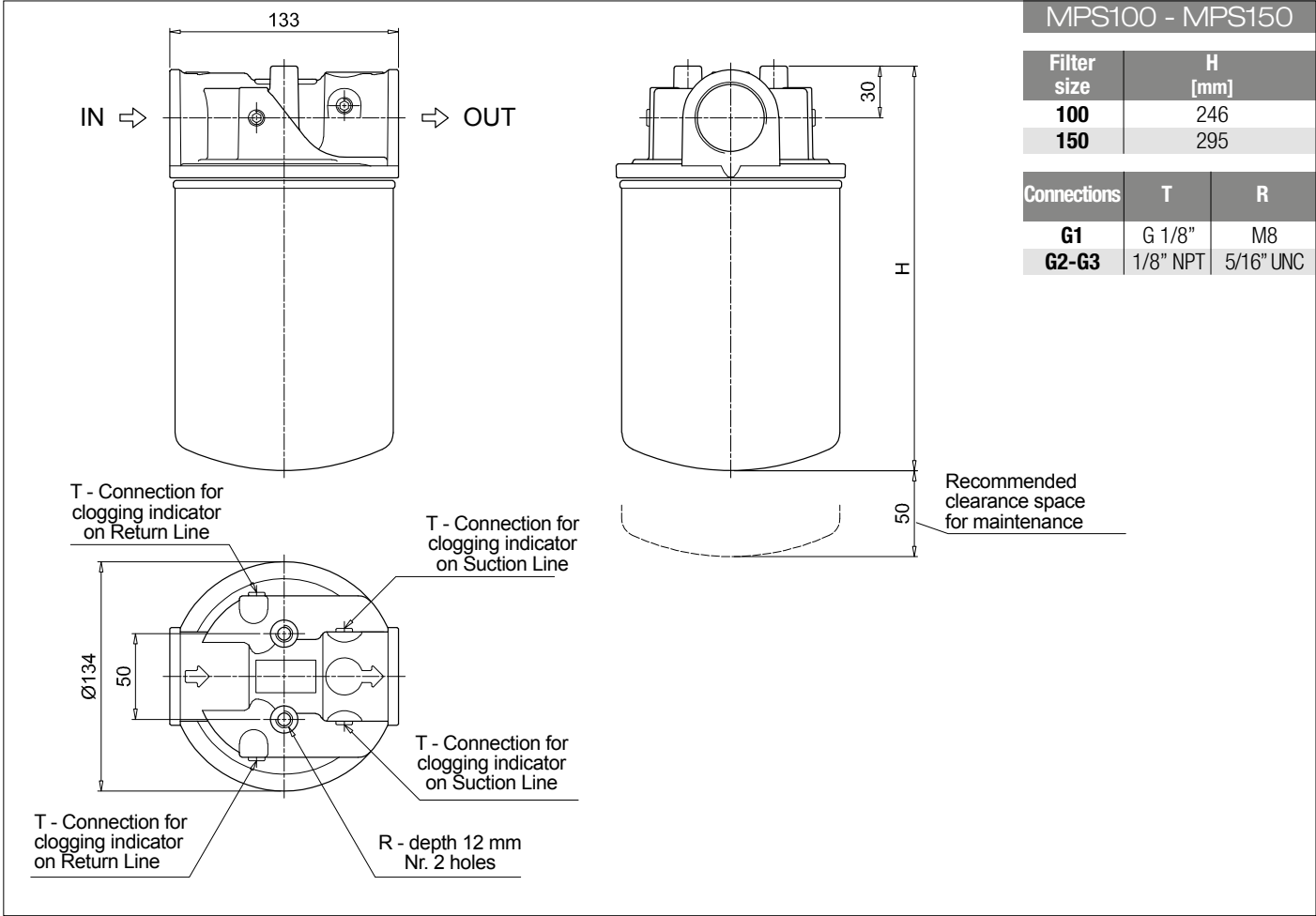
A NBR

Execution

P01 MP Filtri standard

Pxx Customized

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
BVP	Visual pressure indicator with automatic reset	316	BLA Electrical / visual pressure indicator 314-315
BVQ	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
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	



MPS MPS200 - MPS250

Designation & Ordering code

COMPLETE FILTER

Series and size

MPS200 | MPS250

Configuration example :

MPS200

R

G1

A10

A

P01

Bypass valve

R Return: 1.75 bar

S Suction: 30 kPa

U Without bypass

Connections

G1 G 1 1/2"

G2 1 1/2" NPT

G3 SAE 24 - 1 7/8" - 12 UN

Filtration rating (filter media)

A03 Inorganic microfiber 3 µm

A06 Inorganic microfiber 6 µm

A10 Inorganic microfiber 10 µm

A25 Inorganic microfiber 25 µm

M25 Wire mesh 25 µm

M60 Wire mesh 60 µm

M90 Wire mesh 90 µm

P10 Resin impregnated paper 10 µm

P25 Resin impregnated paper 25 µm

Seal

A NBR

Execution

P01 MP Filtri standard

CARTRIDGE

Cartridge series and size

CS100 | CS150

Configuration example:

CS100

A10

A

P01

Filtration rating (filter media)

A03 Inorganic microfiber 3 µm

A06 Inorganic microfiber 6 µm

A10 Inorganic microfiber 10 µm

A25 Inorganic microfiber 25 µm

M25 Wire mesh 25 µm

M60 Wire mesh 60 µm

M90 Wire mesh 90 µm

P10 Resin impregnated paper 10 µm

P25 Resin impregnated paper 25 µm

Seals

A NBR

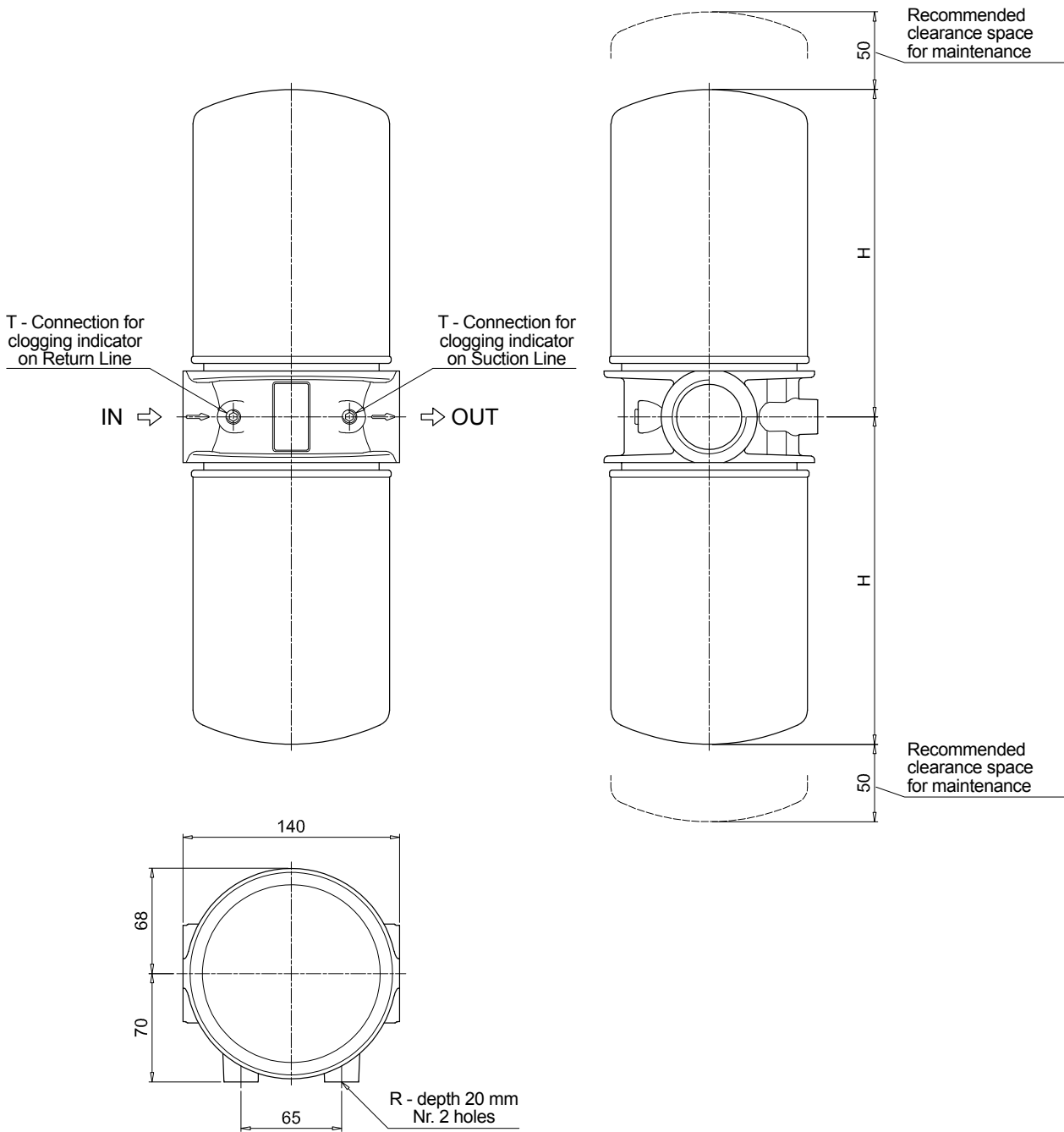
Execution

P01 MP Filtri standard

Pxx Customized

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
BVP	Visual pressure indicator with automatic reset	316	BLA Electrical / visual pressure indicator 314-315
BVQ	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

MPS200 - MPS250		
Filter size	H [mm]	
200	213	
250	262	
Connections	T	R
G1	G 1/8"	M10
G2-G3	1/8" NPT	7/16" UNC



MPS MPS300 - MPS350 MPS301 - MPS351

Designation & Ordering code

COMPLETE FILTER

Series and size

MPS300 | MPS350 With connections for clogging indicators

MPS301 | MPS351 With connections for differential indicators

Bypass valve

MPS 300 - 350 | MPS 301 - 351

R Return: 1.75 bar

S Suction: 30 kPa

U Without bypass

P Without bypass

Connections

G1 G 1 1/2"

G2 1 1/2" NPT

G3 SAE 24 - 1 7/8" - 12 UN

F1 1 1/2" SAE 3000 psi/M

F2 1 1/2" SAE 3000 psi/UNC

Filtration rating (filter media)

A03 Inorganic microfiber 3 µm

A06 Inorganic microfiber 6 µm

A10 Inorganic microfiber 10 µm

A25 Inorganic microfiber 25 µm

M25 Wire mesh 25 µm

M60 Wire mesh 60 µm

M90 Wire mesh 90 µm

P10 Resin impregnated paper 10 µm

P25 Resin impregnated paper 25 µm

Configuration example :

MPS300

R

F1

A10

A

P01

Seal

A NBR

Execution

P01 MP Filtri standard

CARTRIDGE

Cartridge series and size

CS100 | CS150

Filtration rating (filter media)

A03 Inorganic microfiber 3 µm

A06 Inorganic microfiber 6 µm

A10 Inorganic microfiber 10 µm

A25 Inorganic microfiber 25 µm

M25 Wire mesh 25 µm

M60 Wire mesh 60 µm

M90 Wire mesh 90 µm

P10 Resin impregnated paper 10 µm

P25 Resin impregnated paper 25 µm

Configuration example:

CS100

A10

A

P01

Seals

A NBR

Execution

P01 MP Filtri standard

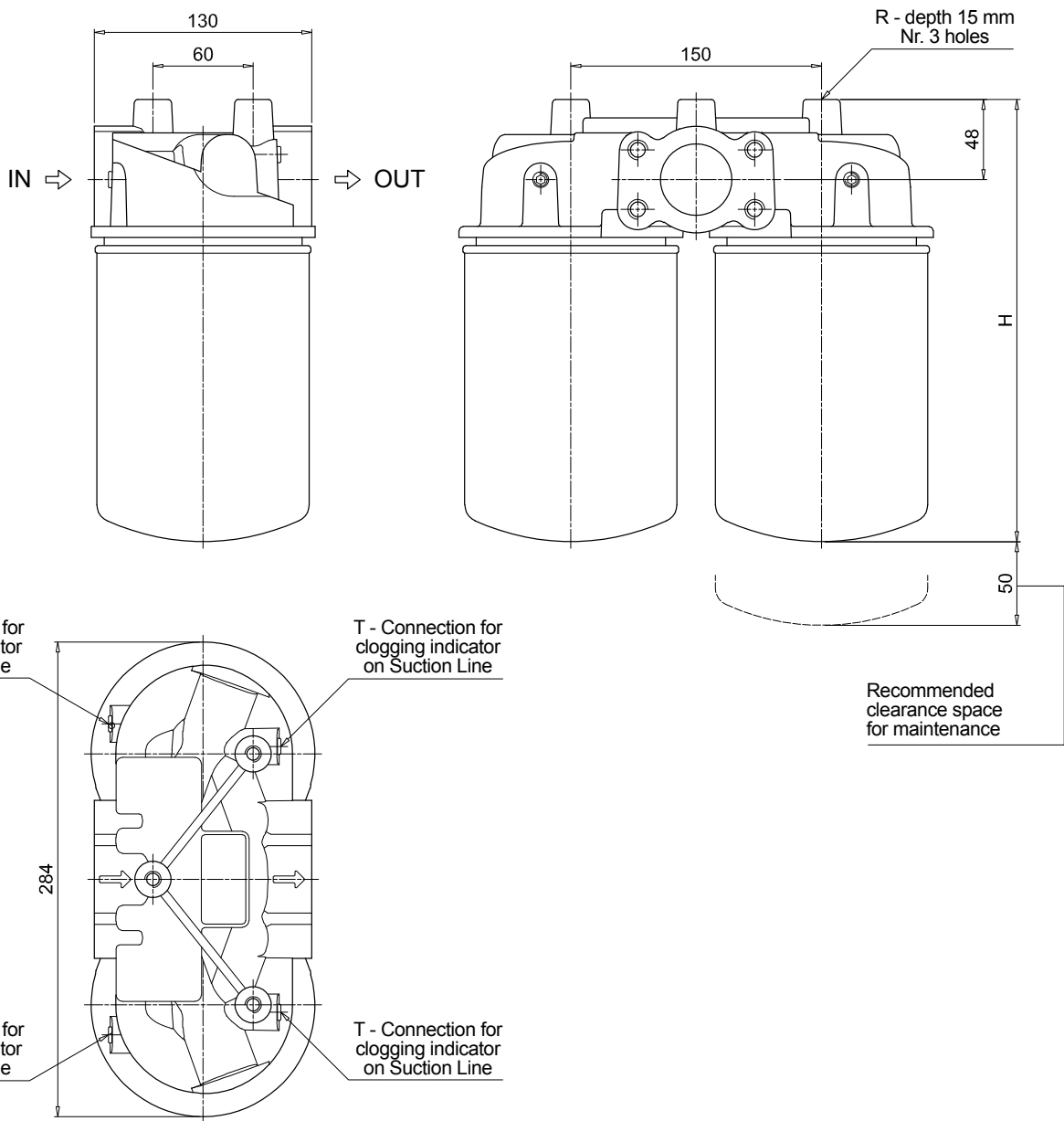
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ACCESSORIES			
Clogging indicators on RETURN line		page	page
BVA	Axial pressure gauge	315	BEA Electrical pressure indicator 314
BVR	Radial pressure gauge	315	BEM Electrical pressure indicator 314
BVP	Visual pressure indicator with automatic reset	316	BLA Electrical / visual pressure indicator 314-315
BVQ	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
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	

MPS300 - MPS350

Filter size	H [mm]
300	266
350	315

Connections	T	R
G1	G 1/8"	M10
G2-G3	1/8" NPT	7/16" UNC
F1	G 1/8"	M10
F2	1/8" NPT	7/16" UNC



Dimensions

MPS301 - MPS351	
Filter size	H [mm]
301	266
351	315
Connections	R
G1	M10
G2-G3	7/16" UNC
F1	M10
F2	7/16" UNC

