

MSH series

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



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) ±10%

Δp element type

- Δp: 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 [dm³]

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

Type	Connection
CH 050 - 070	M32 x 2
CH 100 - 150	M45 x 2

CH



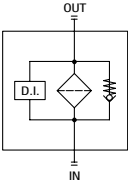
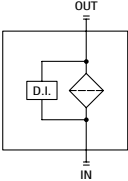
Spin-on filters

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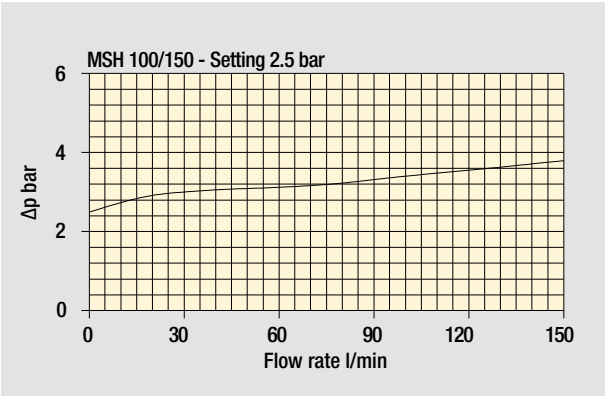
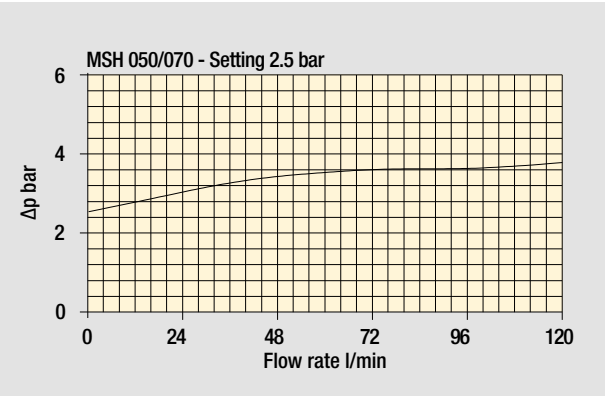
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Filter series	Style S	Style B
MSH 050	•	•
MSH 070	•	•
MSH 100	•	•
MSH 150	•	•



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

COMPLETE FILTER

Series and size

MSH050 | MSH070 | MSH100 | MSH150

Configuration example :

MSH050

B

A

G1

A10

P01

Bypass valve

S Without bypass

B 2.5 bar

Seal

A NBR

Connections

MSH 050 - 070

MSH 100 - 150

G1

G 1"

G 1 1/2"

G2

G 3/4"

G 1 1/4"

G3

1" NPT

1 1/2" NPT

G4

3/4" NPT

1 1/4" NPT

G5

SAE 16 - 1 5/16" - 12 UN

SAE 24 - 1 7/8" - 12 UN

G6

SAE 12 - 1 1/16" - 12 UN

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

Execution

P01 MP Filtri standard

CARTRIDGE

Cartridge series and size

CH050 | CH070 | CH100 | CH150

Configuration example:

CH050

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

Seal

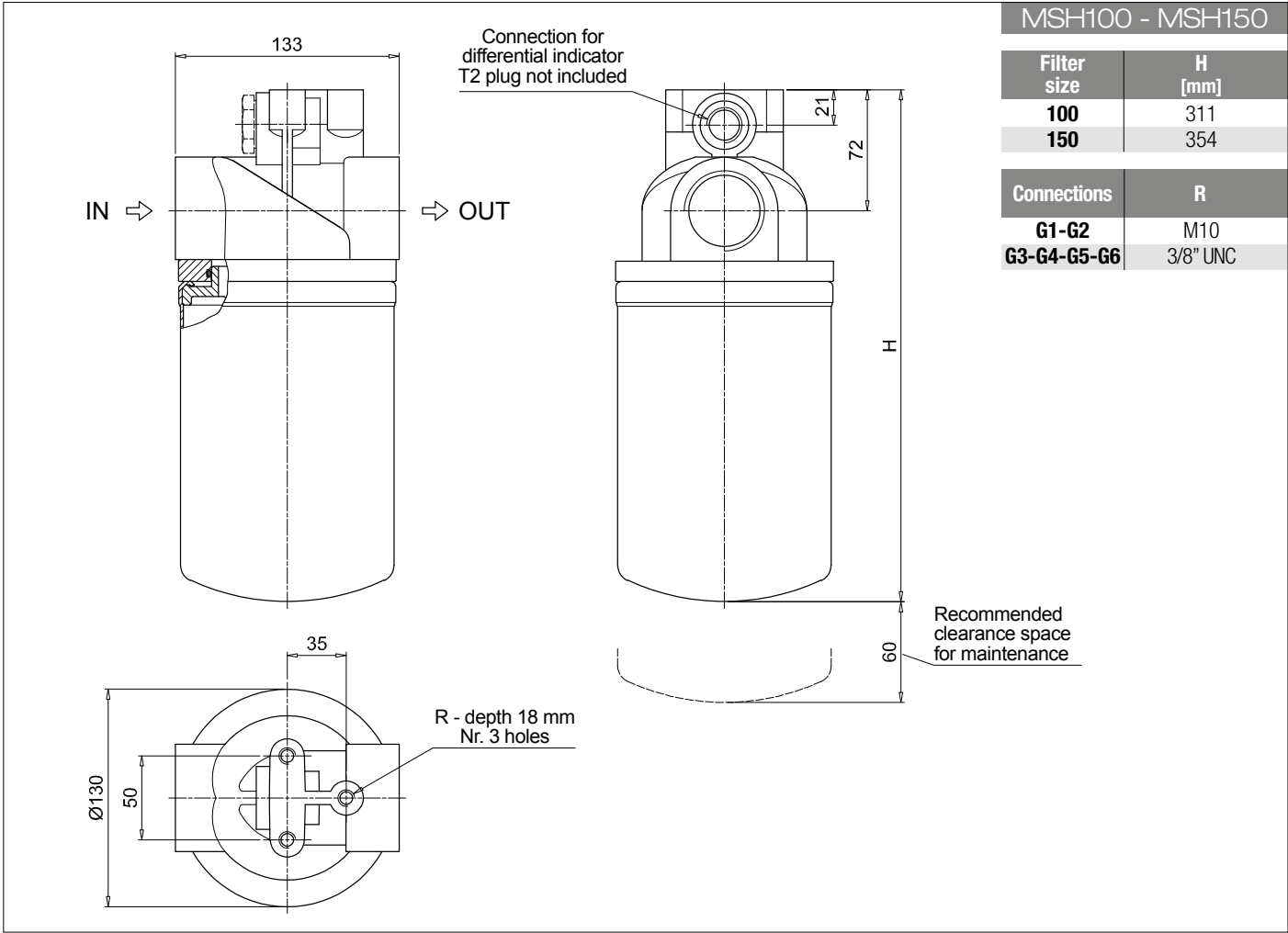
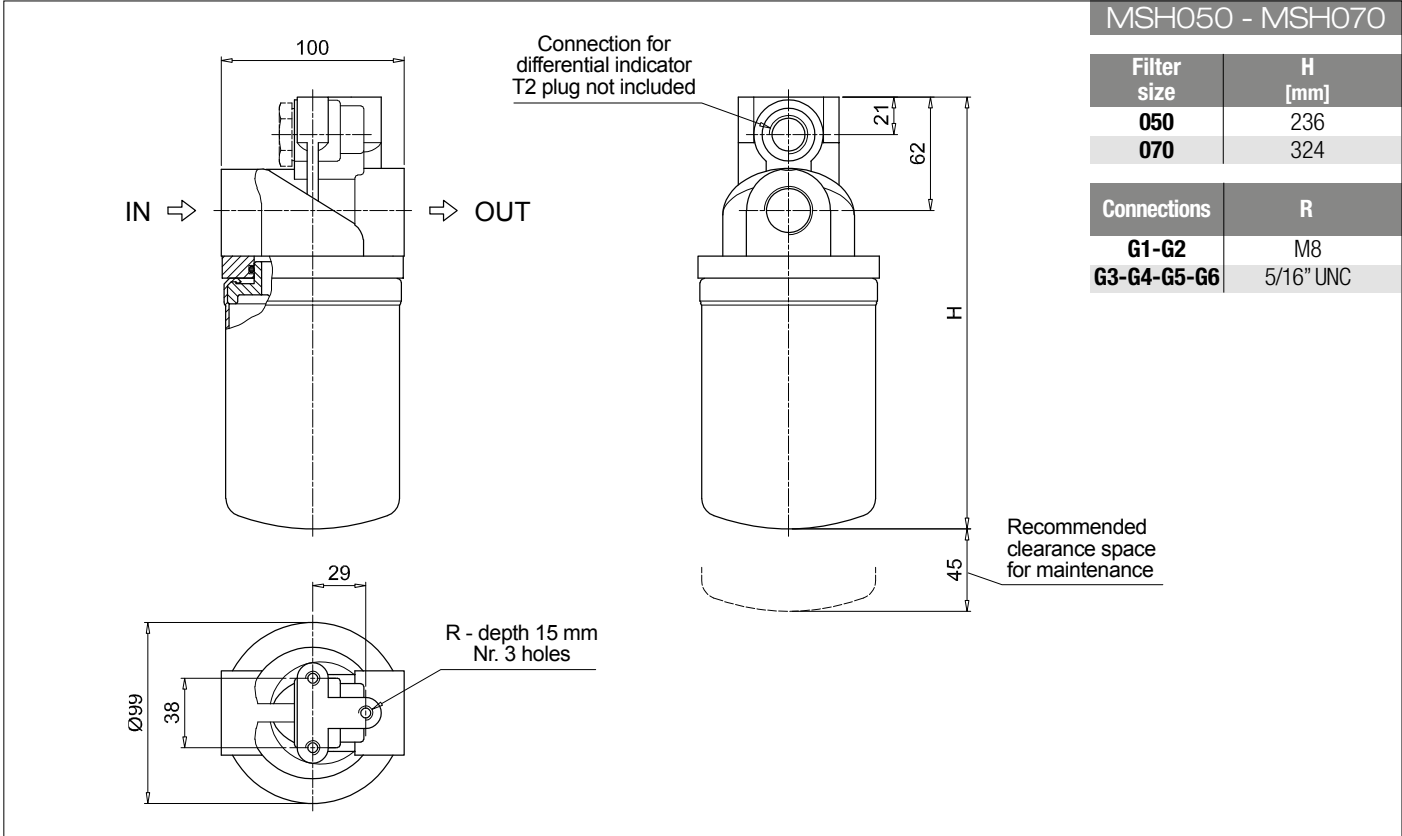
A NBR

Execution

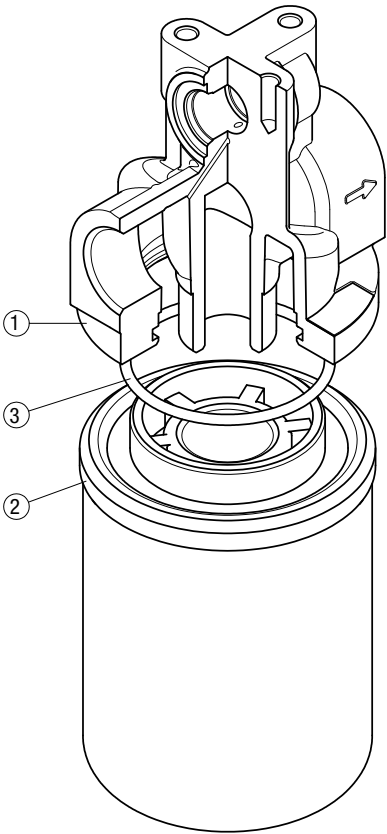
P01 MP Filtri standard

Pxx Customized

ACCESSORIES			
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	
Additional features		page	
T2	Plug	321	



Order number for spare parts



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