

The patented, compact Micromag magnetic filter can benefit many different industries.

Contaminated fluid enters the inlet port where it is dispersed by the unique tapered radial flow channels. Fluid passes down the outside of the centrally mounted rare earth magnetic core which captures contamination particles along its length, resulting in excellent filtration efficiency.

The geometry of the magnetic flux circuit means that contamination builds up in a controlled way, ensuring that the filter can never block, irrespective of how much contamination is held. Channels remain open allowing fluid to continue to flow freely.

The filtered fluid flows through the return slots located in the upper section of the magnetic core, down through the centre and exits through the outlet port.

## Cleaning

Using the supplied cleaning tool, a fully contaminated core can be cleaned in under 30 seconds. Only metallic particles are removed from the filter and these can be easily disposed. There are no dirty cartridges!

## Suitable Products

Neat and soluble oils.

## Installation Location

Pre- or post-pump, delivery line or pre-membrane cartridge.

## Benefits

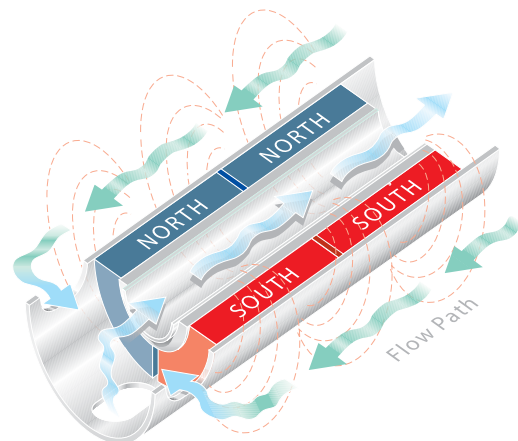
- Sub-micron filtration
- Large holding capacity
- High intensity rare earth magnetic material
- Clear bowl
- Suitable for all machining applications
- Environmentally responsible
- No consumables

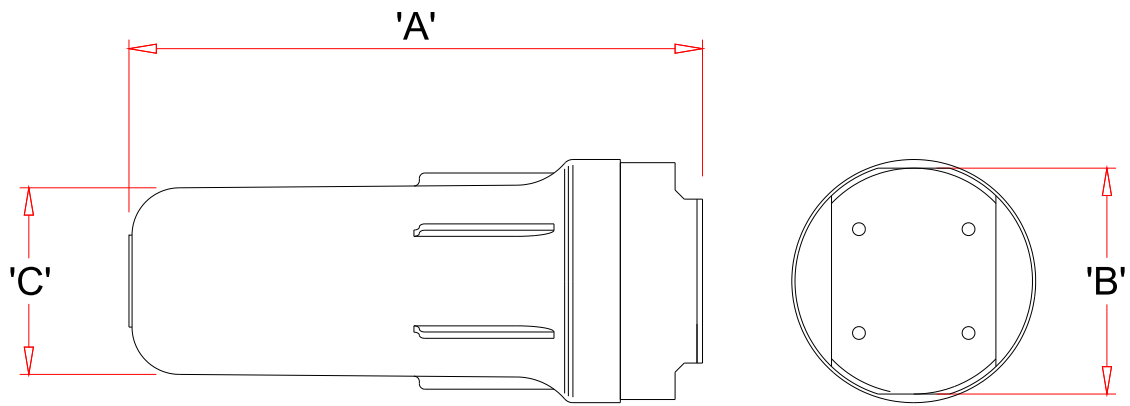
## Category

Medium pressure.



Magnetic circuit & fluid flow path.





Product number	Flow rate Gallons	Contamination capacity lbs	Max. operating pressure psi	Connection NPT Ø	Temperature range F	Construction	Dimensions inches		
							A	B	C
MM5 /1.0	18	2.2	174	1	41-122	SAN housing, aluminum lid	7.5	3.7	4.1
MM10 /1.0	26	4.4	174	1	41-122		12.4	4.0	4.9
MM20 /1.5	40	8.8	174	1½	41-122		23.9	4.0	5.3

## Performance

<b>Maximum Pressure</b>	174 psi
<b>Magnetic Performance</b>	High intensity
<b>Circuit Design</b>	Open
<b>Magnetic Material</b>	rare earth neodymium iron boron
<b>Magnet Grade</b>	N45 – Inspected & confirmed via hystergaph prior to use
<b>Temperature</b>	41 – 122F

## Materials

<b>Housing</b>	Styrene Acrylo Nitrile (SAN)
<b>Lid</b>	Marine grade aluminum, anodised blue
<b>Magnetic Core</b>	304 Grade stainless steel
<b>Sealing</b>	Nitrile O-ring

## Options

- Viton O-ring
- Bowl spanner
- Core cleaning post
- Mounting bracket
- Port adaptors

If you have any more questions, require technical assistance and would like a quotation, simply contact us.

[www.smartskim.com](http://www.smartskim.com)



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While every effort has been made to ensure the accuracy of the information in this publication please note that specifications may change without notice.



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