

Micromag

High Intensity - Rare Earth

Datasheet no. 401

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

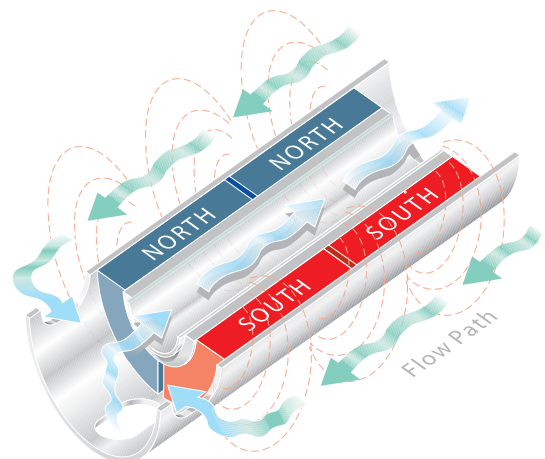
- Sub-micron filtration
- Large holding capacity
- High intensity rare earth magnetic material
- Clear bowl
- Suitable for all machining applications
- Environmentally responsible
- No consumables

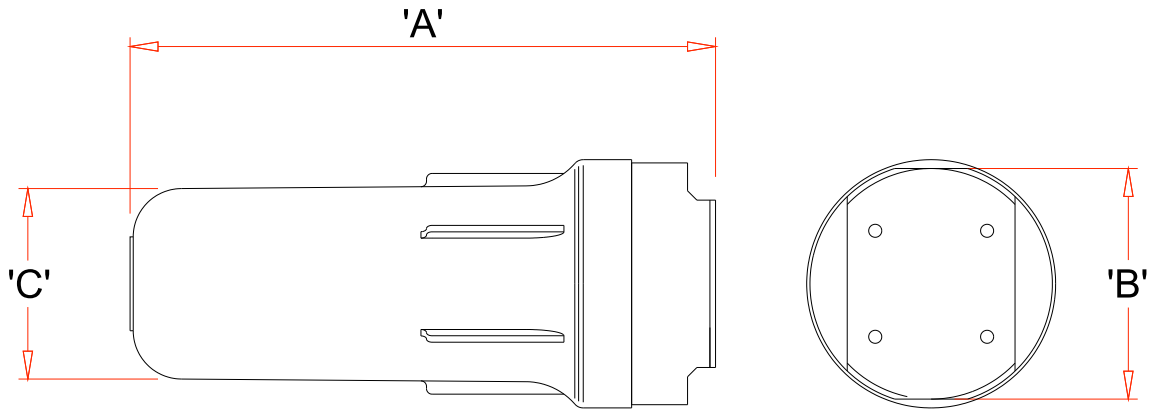
Category

Medium pressure.



Magnetic circuit & fluid flow path.





Product number	Flow rate Gallons/min	Contamination capacity lbs	Max. operating pressure psi	Connection NPT (in)	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

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

Materials

Housing	Styrene Acrylo Nitrile (SAN)
Lid	Marine grade aluminum, anodised blue
Magnetic Core	304 Grade stainless steel
Sealing	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.