Micromag

High Intensity - Rare Earth

Datasheet no. 401

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

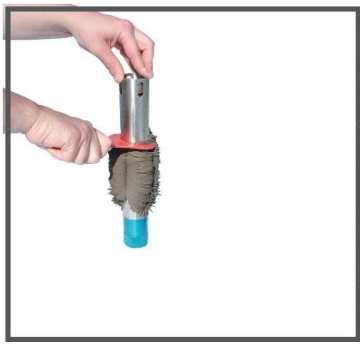
Contaminated fluid enters the inlet port where it is dispersed by the unique tapered radial flow channels. Fluid passes down the outside of the centrally mounted rare earth magnetic core which captures contamination particles along its length, resulting in excellent filtration efficiency.

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 too 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.

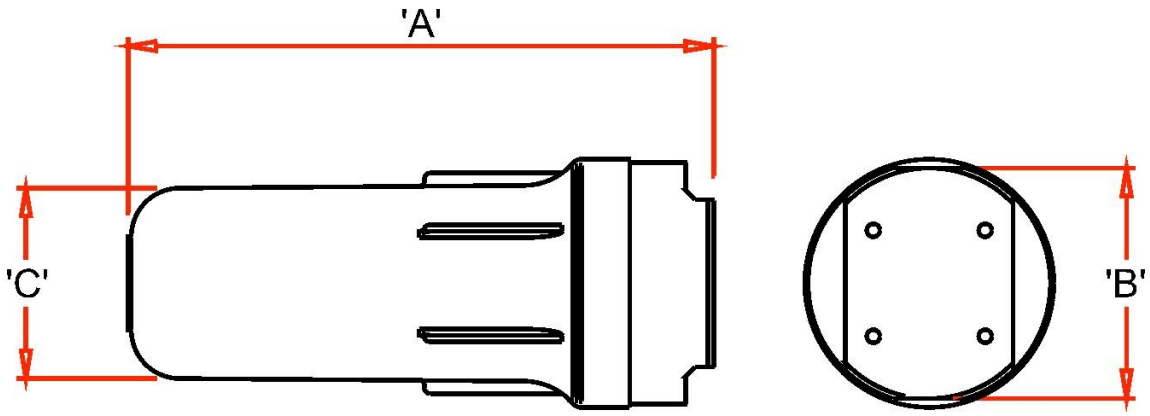
Benefits

- 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 Information

Product number	Flow rate ltrs/min.	Contamination capacity kgs	Max. operating pressure bar	Connection ″ BSP	Temperature range °C	Weight kgs	Construction	Dimensions mm A	B	C
MM5	70	0.9	12	1	5 – 50	3.15	SAN housing, Aluminum lid	190	105	95
MM10	100	2	12	1	5 – 50	5.2		315	125	100
MM20	150	4	12	1½	5 – 50	9.7		605	135	100

Performance

Maximum Pressure 12 Bar
Magnetic Performance High intensity
Circuit Design Open
Magnetic Material rare earth neodymium iron boron
Magnet Grade N45 – Inspected & confirmed via hystergraph prior to use
Temperature 5°– 50°C

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