

Automag

Self Purging Magnetic Filter – High Intensity

Datasheet no. 404

The patented Automag unit is the latest generation of self-purging high intensity magnetic filters for high flow, high contamination industrial applications.

The Automag has two flow chambers. Fluid enters the inlet chamber where primary filtration takes place. The partly treated fluid flows into a second chamber where it is slowed so that the final filtration treatment can take place. It then returns to the process.

Installing Automag will improve your manufacturing effectiveness and reduce operator intervention.

Using fully filtered fluid, free from micron sized particles will:

- Improve surface finish
- Extend tool/wheel life
- Improve fluid flow
- Cut costs on scrap reduction
- Reduce downtime

All applications, which use pumped cutting fluids will benefit from using this equipment.

Typical Applications

- Grinding
- Honing
- Milling
- Fine finishing

Cleaning

A signal from your control system activates the outlet valve (not included) so fluid is redirected to a purge tank or reclamation unit (available as an option), then the centrally positioned pneumatic cylinder withdraws the magnetic elements from the filter.

When the contamination has been purged the magnetic elements are reinserted and the outlet valve is returned to position, bringing the unit back online. The complete cleaning cycle takes 10-15 seconds depending on fluid type and filter location.

Suitable Fluids

Oil, coolant, water.

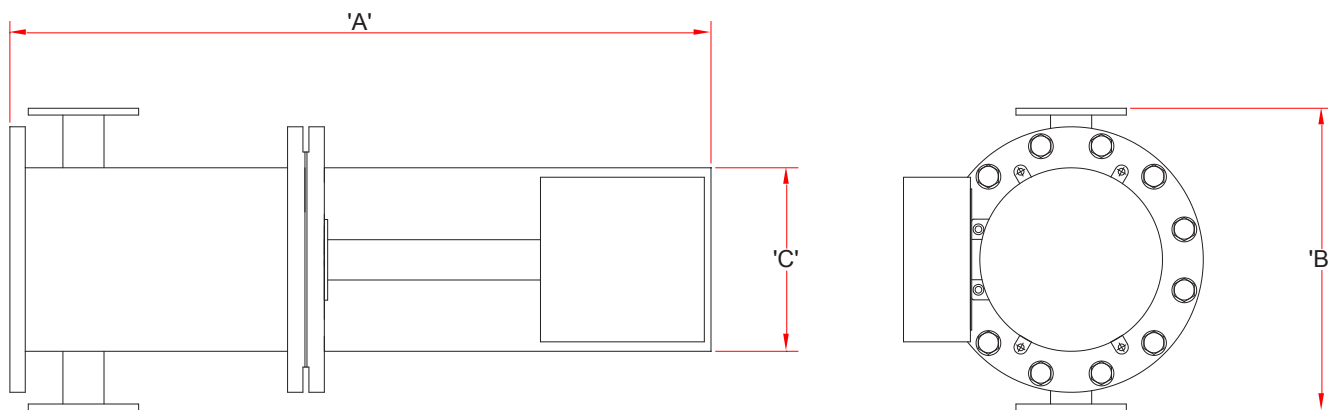
Suitable Locations

Pre- & post-fluid holding tank, machine or process.

Benefits

- Double magnetic length
- High collection capacity
- Removes micron sized contamination
- Self purging
- Rare earth high intensity magnetic material
- Compact
- No maintenance





Product Information

Part Number	Diameter mm			Port Pipe	Rod Qty	Capacity kgs	Max FlowRate ltrs/min
	A	B	C				
AMC	740	300	200	1½" PN16	8	2.5	200
AM6	1065	450	275	2" PN16	6	7	450
AM12	1145	620	405	3" PN16	12	14	900

Performance

Maximum Pressure

10 Bar g

Magnetic Performance

AM6 & AM12 9000 Gauss, AMC 6000 Gauss

Performance Reading

On tube surface

Magnetic Material

rare earth neodymium iron boron

Magnet Grade

N45 – Inspected & confirmed via hystergaph prior to use

Temperature

5°–70°C

Materials

Filter Body

304 Grade stainless steel, powder coated white

Filter Cover

304 Grade stainless steel, powder coated silver

Control Box

Aluminium, powder coated white

Pneumatic Cylinder

Festo

Solenoid Valve

ASCO

Limit Switch

Proximity Sensors, RS origin

Options

Simple timer control box

Purge valve arrangement

Super high flow rate systems

Pre-programmed PLC controls

Complete mounting skid arrangement

Purge fluid collection tank and reclaim system

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

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