

# 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 down 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 take 10-15 seconds depending on fluid type and filter location.

### Suitable Fluids

Oil, coolant, water.

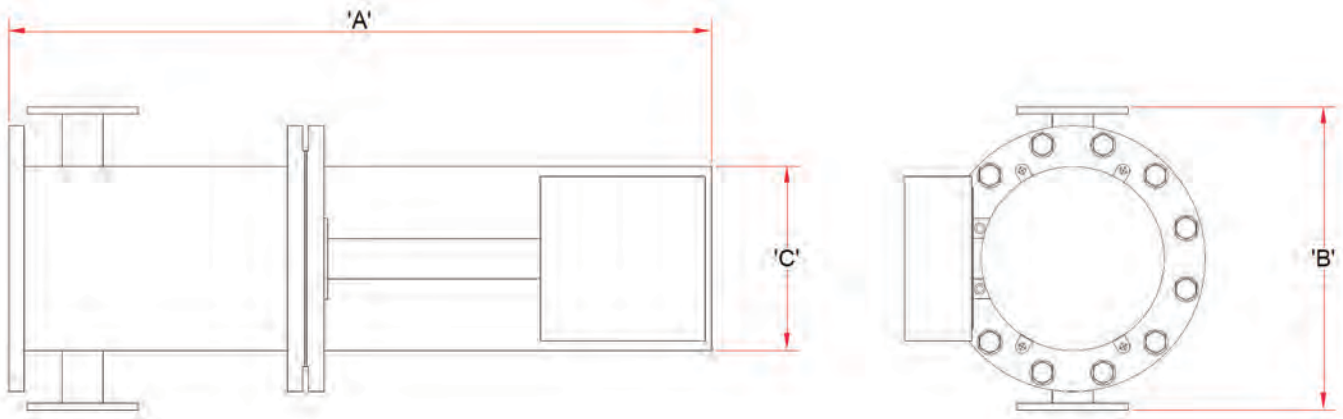
### Suitable Locations

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	Port Pipe	Rod Qty	Capacity kgs	Max FlowRate ltrs/min	Weight kgs	Diameter mm		
						A	B	C
AMC	1½" PN16	8	2.5	200	40	740	300	200
AM6	2" PN16	6	7	450	186	1065	450	275
AM12	3" PN16	12	14	900	321	1145	620	405

## Performance

Maximum Pressure	10 Bar
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
Sealing:	Nitrile O-Ring, Gasket Seal - Novus 30

## 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, contact us.

Contact **Eclipse Magnetics** Authorised Distributor



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