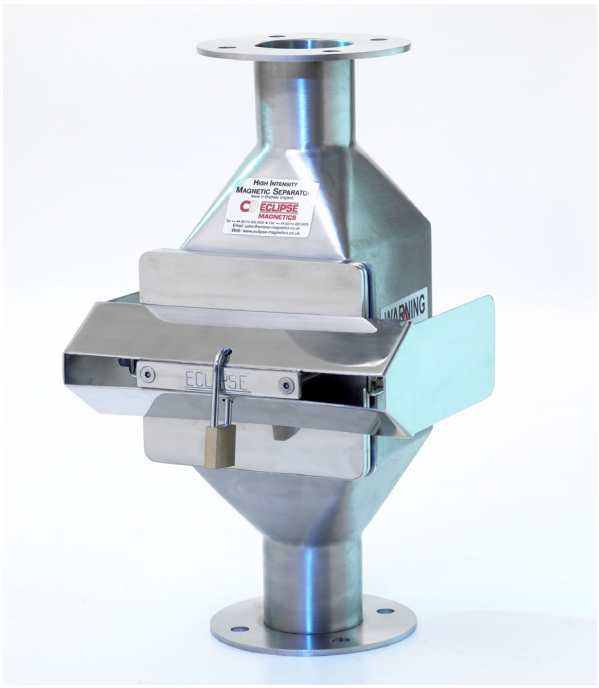
Pneumag

Adbulco
Advanced Bulk Components

Datasheet No. 513



The Eclipse Magnetics Pneumag high intensity magnetic separator has been designed to operate in pneumatic conveying lines to provide protection against ferrous and para-magnetic contamination.

The unit contains a single double row high intensity magnetic cartridge. It is secured into its housing by quick release toggle clamps, which ensure even pressure is generated around the unique silicon-based metal-detectable seal.

The Pneumag can be incorporated into any form of pneumatic conveying line, from lean to dense phase, and can be installed at any angle from vertical to horizontal. A common installation location is at tanker discharge to inspect incoming materials.

All dry powders and granular type materials can be processed through the unit. Pneumag can operate in line pressures of +/-1 Bar, units are available up to +/-5 Bar on request, with a maximum processing line speed of 35m / sec.

A lockable tamper proof cover plate is provided to ensure only authorised personnel have access to the unit.

Cleaning

The Pneumag uses the Eclipse Magnetics 'Easy Clean' system.

To clean, simply release the quick release toggle clamps, remove the contaminated cartridge from the housing and then remove the magnetic cores from the tube assembly. All attracted contamination will be released allowing for inspection or further analysis.

Suitable Products

Dry powders and granulates.

Suitable Locations

All.

Benefits

- Easy to clean
- Tamper poof guard
- Metal detectable seal
- Reduces 'spark' risk
- Removes sub-micron sized contaminants
- Meet audit requirements
- Rare earth 7,000, 9,000 Gauss

Category

Secondary protection - fines.

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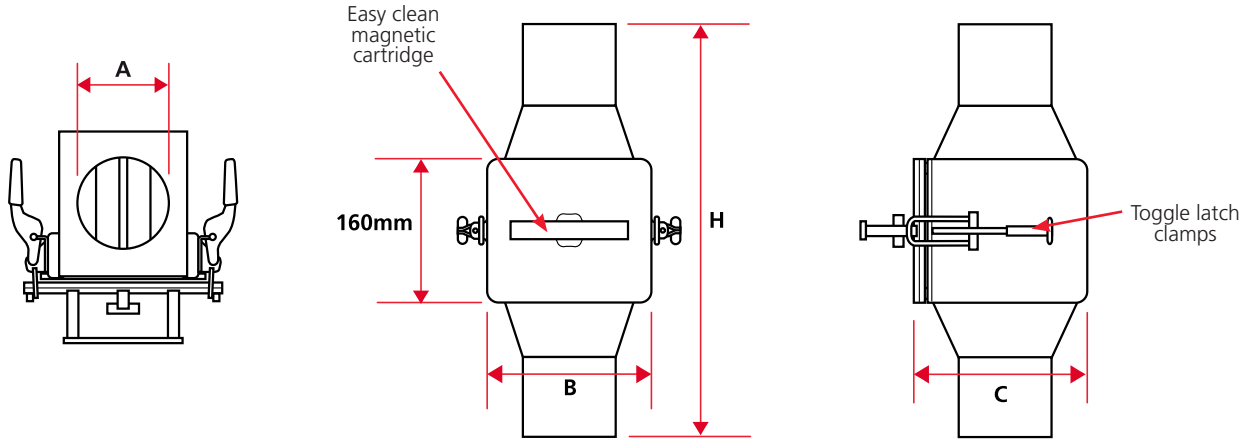
Technical Data



Product Information

Part Number	Spout Dia. A mm	B mm	C mm	H mm	No. of Rods	Weight kg
PNEU50	50	150	132	460	3	8
PNEU75	75	180	180	460	4	11
PNEU100	100	180	180	460	4	11
PNEU125	125	240	220	500	6	18
PNEU150	150	240	220	500	6	18
PNEU175	175	290	272	500	8	24
PNEU200	200	290	272	500	8	24

Performance

Magnetic performance	7,000* Gauss standard strength 9,000 Gauss high strength
Performance reading	On tube surface
Magnetic material	Rare earth neodymium iron boron
Magnet grade	N45 – Inspected and confirmed via hysterograph prior to use
Temperature	-20°C / +60°C
Pressure	+ / - 1 Bar

*7.000 Gauss should be selected for bread flour applications to allow for permissible iron oxide.

Materials

Housing	316 grade stainless steel
Tubing	316 grade stainless steel – aerospace quality
Other Parts	316 grade stainless steel
Surface finish	Brushed internally / externally to 1.2µm
Sealing	Metal detectable silicon rubber – dark blue, FDA approved
Toggle Clamps	Mild steel – Bright Zinc plated

Options

- Stainless steel toggle clamps
- High temperature samarium cobalt magnetic material +250°C
- 11,000 Gauss fixed grid
- Overpressure to + / - 5 Bar
- Double magnetic core arrangement
- 304 grade stainless steel
- ATEX certified
- Pharmaceutical specification
- Safety relay switch
- Flanged to suit

*7,000 Gauss should be selected for bread flour applications to allow for permissible iron oxide

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

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