

# EHEDG EL Class II Magnetic Separator



## At A Glance

- Protection: Secondary**
- Feed Type: Lean / Dilute Phase and gravity discharge**
- Material Type: NdFeb**
- Cleaning Type: Manual**

## What is EHEDG?

The European Hygienic Engineering & Design Group (EHEDG) is the leading organisation devoted to the advancement of hygienic design and food engineering. Eclipse Magnetics' EHEDG Magnetic Separator successfully conforms to the essential hygienic design guidelines as set out by EHEDG EL Class II, therefore meeting the most demanding hygiene standards and guaranteeing the purity and quality of the finished product.



**Our EHEDG EL Class II high intensity magnetic separator has been designed to operate in lean / dilute conveying lines, and gravity pipes to provide protection against ferrous and paramagnetic contamination.**

The unit features a double row of magnets on a single assembly high intensity magnetic cartridge. It is secured into its housing by DIN 11853-3 clamps, which ensure even pressure is generated around the O-Ring.

The EHEDG Magnetic Separator can be incorporated into lean/dilute phase, conveying lines and gravity pipes in a vertical orientation. A common installation location is at tanker discharge to inspect incoming raw materials.

## Benefits

- Reduces 'spark' risk
- Certified EHEDG Type EL II
- Removes sub-micron sized contaminants

## Performance

Magnetic Performance	7,000, 9,000, 10,000 (Easy clean)
Performance Reading	On product contact surface
Magnet Grade	N35 (7k gauss), N45 (9K gauss) & N52 (10k gauss)
Temperature	Standard 80°C
Pressure	+ / - 1 Bar

## Suitability

Suitable Products	Dry powders and granulates
Suitable Location	Vertical conveying pipes

## Materials

Magnetic Material	Rare Earth Neodymium Iron Boron - (NdFeb)
Housing	*316 grade stainless steel
Tubing	*316 grade stainless steel
Other Parts	*316 grade stainless steel
Sealing	Silicon rubber – Red, FDA approved
Surface Finish	Polished internally Ra 0.6µm Brushed externally to Ra 0.8µm

\*316L Available if required

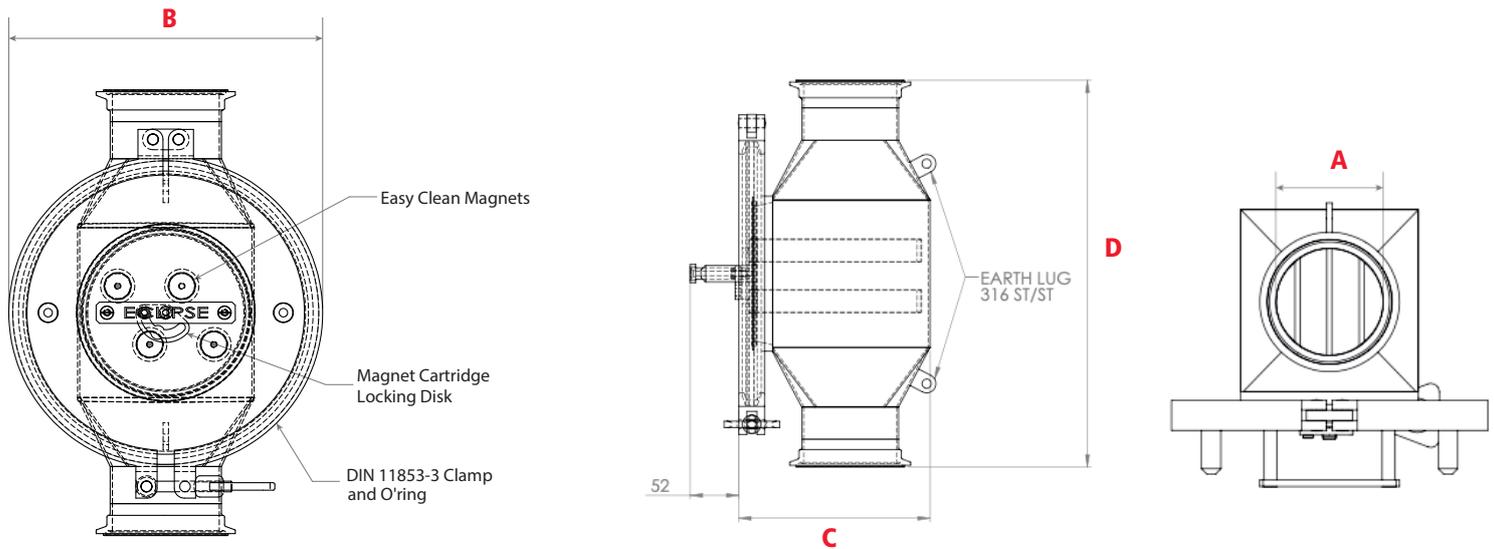
## Cleaning

The EHEDG EL Class II separator uses our 'easy clean' system. To clean, simply release the DIN 11853-3 clamps, remove the contaminated cartridge away 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.

## Options

- Higher temperature versions available
- Seal types - FKM, EPDM, Nitrile
- Plain Spout

# EHDG EL Class II Magnetic Separator



## Flanged units DIN11853-3

-XX- Select magnet performance (See table below)

Part Number	A mm	B mm	C mm	D mm	Number of Rods	Weight kg
PNEU65-XX-E-DIN	66	255	192	412	3	14
PNEU80-XX-E-DIN	81	293.5	206	416	4	19
PNEU100-XX-E-DIN	100	293.5	206	416	4	19
PNEU125-XX-E-DIN	125	344.5	239	482	6	27
PNEU150-XX-E-DIN	150	344.5	239	482	6	27

## Plain Spouted Units

-XX- Select magnet performance (See table below)

Part Number	A mm	B mm	C mm	D mm	Number of Rods	Weight kg
PNEU65-XX-E-P	66	255	192	412	3	14
PNEU80-XX-E-P	81	293.5	206	416	4	19
PNEU100-XX-E-P	100	293.5	206	416	4	19
PNEU125-XX-E-P	125	344.5	239	482	6	27
PNEU150-XX-E-P	150	344.5	239	482	6	27

## Magnet Performance

Select the magnet performance and replace -XX- in the Part Number. High temperature options are available up to 250 °C. With different grade Neodymium and either Silicone or FKM O-Rings.

Code XX	Description	Material	Grade	Gauss	Max Temperature (°C)
SS	Standard Strength	NdFeB	N35	7,000	80°
HS	High Strength	NdFeB	N45	9,000	80°
10K	10,000 Gauss	NdFeB	N52	10,000	80°