

# Liquid Filter

## At A Glance



**Protection: Secondary**



**Feed Type: Pumped / Liquid Line**



**Material Type: NdFeB**



**Cleaning Type: Manual**

**Our high intensity liquid filter magnetic separator has been designed to operate in pressurised transfer lines to provide protection against ferrous and para-magnetic contamination.**

The housing comprises a vessel, magnetic lid assembly and swing bolts, which secure the unit together. The filter is available in two versions, single wall and double wall (jacketed for heated pipelines).

The filter can be used in any line that processes liquids at all viscosity levels and can be installed at any angle from vertical to horizontal. A common installation location is tanker loading and discharge to inspect outgoing and incoming materials. The filter can be supplied to suit various processing volumes, pressures, temperatures and specifications.

## Benefits

- Easy to clean
- Meets audit requirements
- No consumables
- Removes sub-micron sized contaminants
- Suitable for use in ATEX environments (out of scope certificate available)

## Performance

Magnetic Performance	7000, 9000, 10000, 11000 (Fixed) & 12000 (Fixed) Gauss
Performance Reading	On tube surface
Magnet Grade	NdFeB or SmCo grade dependent on performance required
Temperature	-20°C / +80°C (+225°C for SmCo units)
Pressure	+ 6.0 Bar

## Suitability

Suitable Products	Chocolate, molasses, jam, syrup, juice, sauce, pastes, soup, pickles, spreads, beverages etc.
Suitable Location	All, vertical, horizontal or angled



## Materials

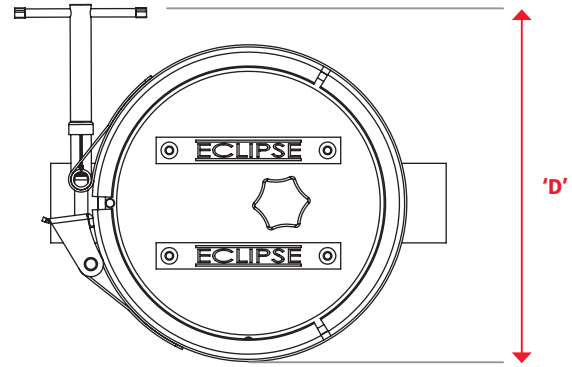
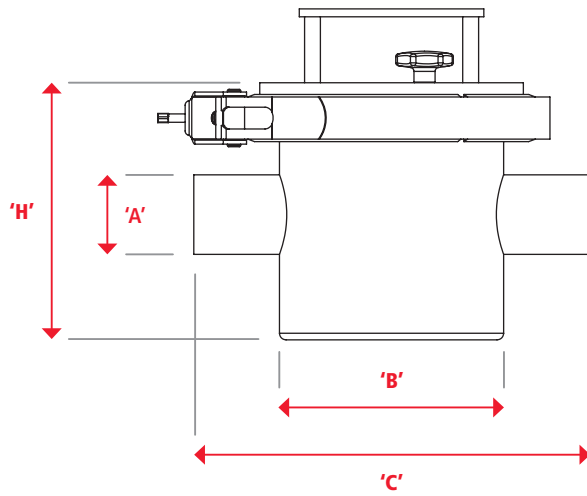
Magnetic Material	Rare Earth Neodymium Iron Boron - (NdFeB)
Housing / Tubing	316 grade stainless steel
Other Parts	304 grade stainless steel
Sealing	Silicon rubber O-ring
Drain	1" BSP drain plug
Surface Finish	Brushed internally / Polished externally to 1.2µm

## Cleaning

To clean, simply release the quick release band clamp, remove the contaminated cartridge from the housing. For Easy Clean units, remove the magnet cores from the tube and wipe the tubes with a clean cloth to remove contamination. Attracted contamination can then be sent for further analysis.

## Options

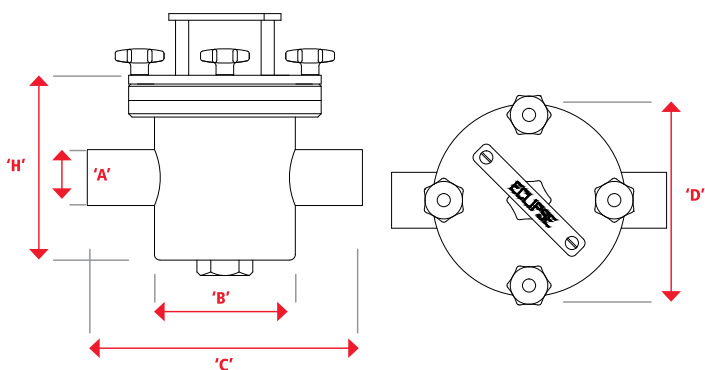
- Pharmaceutical specification
- Safety relay switch
- Hygienic fittings
- Higher temperature versions available, up to 225°C
- Higher pressure versions available, up to 30 bar
- EPDM, viton or metal detectable seal options also available
- Flange options: PN16, PN10, plain spout, ANSI B150, SMS, RJT, DIN11851, Tri Clamp, other options available



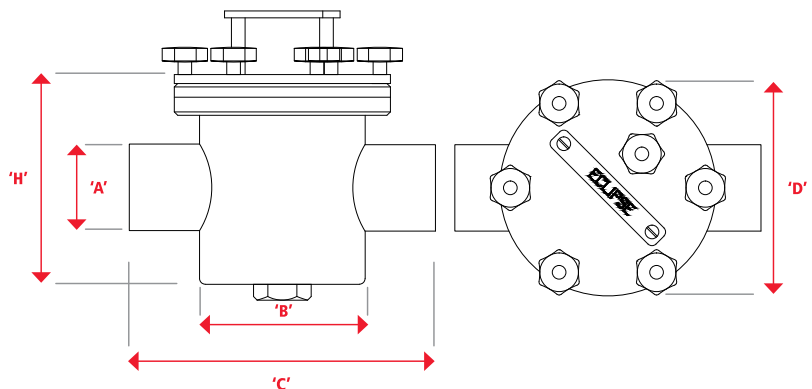
Part Number (Single Wall)	Spout Dia. A (mm)	Dia. B (mm)	C (mm)	D (mm)	H (mm)	Number Of Rods	Weight (kg)
ILF110/50 (See diagram below)	40	128	250	175	170	3	11
ILF140/75 (See diagram below)	50	146	270	190	190	5	17
ILF200/50	50	170	350	260	200	7	22
ILF200/75	75	170	350	260	200	7	22
ILF300/50	50	260	450	360	300	9	36
ILF300/75	75	260	450	360	300	9	36
ILF300/100	100	260	450	360	300	9	36

Part Number (Jacketed)	Spout Dia. A (mm)	Dia. B (mm)	C (mm)	D (mm)	H (mm)	Number Of Rods	Weight (kg)
ILF200/50/J	50	200	350	260	220	7	22
ILF200/75/J	75	200	350	260	220	7	22
ILF300/50/J	50	300	450	360	300	9	36
ILF300/75/J	75	300	450	360	300	9	36
ILF300/100/J	100	300	450	360	300	9	36

ILF110/50



ILF140/50



For non-standard sizes, please contact [sales@eclipsemagnetics.com](mailto:sales@eclipsemagnetics.com)