Permanent magnets for the removal of ferrous metal contamination from liquid lines.

Benefits
- Preserve product purity by removing small particles of magnetic scale, rust and fine iron contamination
- Protect valuable machinery
- Eliminate downtime

Features
- Available in Ferrite, Megastrength and Xtreme™ Rare Earth magnetic materials
- High quality body construction
- Sanitary models
- Easy clean design available
- Pipe sizes from 50mm
- Water jacketed models
- Only the highest grades of magnetic and body materials are utilised to provide optimum protection for wet separation
- Integral sump in all models to help trap larger non-magnetic items as they settle out into the bottom of the body

Applications
- Food
- Paints and inks
- Engineering
- Ceramics
- Paper
- Chemicals

STRONGEST EVER
Rare Earth magnets Now with
18% more pulling power!
**Model ‘B’ Range**

**Standard Design**

For 50mm through 100mm pipelines.

Available in Ferrite, Megastrength and Xtreme™ Rare Earth, the magnetic element fits into the Grade 316 stainless steel body casting in such a way as to ensure that all of the product passing through the trap enters the strongest part of the magnetic field.

The strength and design of the magnetic circuit ensure that any collected contaminants are held to the downstream side of the tubes, preventing the particles from being washed off.

The body contour of the trap tends to spread the material equally round the element, without restricting the flow of the material.

Operating pressures of up to 10 bar (150 p.s.i.) are standard, with heavier duty models available on request. The pressure drop within the body is equivalent to a 90° bend.

All sizes have B.S.P. threaded ends as standard, with flanges or special threads available as extras.

**Easy Clean Design**

Eriez ‘B’ Traps are also available with Easy Clean magnetic elements for complete removal of fine iron particles from an outer sleeve, thus speeding up the cleaning process and reducing downtime.

The element stud can be locked to eliminate accidental cleaning.

**Water Jacketed Design**

When it is essential that the product is kept heated for it to remain fluid, eg honey or chocolate, a stainless steel (grade 304) water jacket can be constructed around the main body.

The B.S.P. inlet and outlet ensures a constant flow of hot water.

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**Drive Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipeline Size N.B.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>Fluid</th>
<th>Medium</th>
<th>Viscous</th>
<th>Total</th>
<th>Element</th>
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</tbody>
</table>

Dimensions and capacities are a guide only. Please ask for a certified drawing when ordering.
Model 'T' Range

For 150mm through 450mm pipelines. These high capacity units reduce damage and maintenance to filters, pumps and other process machinery handling liquid materials.

Rugged, welded pipe and reinforced plate construction withstand operational pressures of up to 5.3 bar (75 p.s.i.).

The standard body is constructed from mild steel and has flanged ends and a drain plug for removal of entrapped non-magnetic particles.

Guide lugs on the element locate with rods in the body for correct positioning, whilst a non-magnetic area at the base of each tube makes cleaning easier.

Unlike the Model 'B', which can be installed in any orientation, the 'T' Trap is primarily for upright installations. Check with Eriez engineers for vertical or angled applications.

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<table>
<thead>
<tr>
<th>Model</th>
<th>Pipeline Size N.B.</th>
<th>Dimensions (mm)</th>
<th>Nominal weight (kg)</th>
<th>Fluid Capacities(l/s)</th>
<th>Medium</th>
<th>Viscous</th>
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**Models ‘L’ and ‘L-T-F’**

50mm pipelines only.

This model of Trap is again available with both Ferrite and Rare Earth magnetic elements.

The unit was designed to serve as a low-cost, pipeline trap where operating conditions are not too severe.

The housing is of non-sanitary cast bronze construction capable of withstanding pressures of up to 10.5 bar (150 p.s.i.).

B.S.P. threaded internal connectors are standard. However, alternatives may be considered on request.

Although the inlet and outlet are designed for 50mm pipelines, standard reducers can be used to adapt it to lines as small as 13mm.

The powerful magnetic circuit is encased in a single magnetic tube, which, in the case of the ‘L-2-F’ design, can be surrounded with a perforated bronze filter sleeve to assist in capturing non-magnetic fines, lint, etc.

Screens are available with 0.5mm or 0.8mm diameter openings.

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**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipeline Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Weight (kg)</th>
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<td>84</td>
<td>106</td>
<td>7</td>
</tr>
</tbody>
</table>

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**Models U**

This is a powerful, permanent magnetic separator for liquid-line applications. It uses a Rare Earth magnet circuit to remove fine and weakly magnetic contamination like rust, scale or screen wire, and removes ferrous contamination from difficult-to-flow or chunky products like vegetables, salsa or meat batters.

The special body design of the Model U incorporates a gradually tapered transition that gently directs the product under a magnetic surface. The body design does not incorporate diverters or baffles. This design works well for applications where large pieces would plug finger-style traps, or where delicate products would break if forced against a baffle. This model has a maximum operating pressure of 3.3 bar (50 psi).

The Model U Trap’s compact design can be installed easily into 76mm (3”) or 102mm (4”) lines. The standard unit is sanitary, incorporates Eriez Super-Strength Rare Earth magnet element, is of 316 stainless steel construction and has BSP threaded ends.

Optional features include stronger and high temperature Rare Earth magnet circuits, ferrule and flanged ports.

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<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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