

LIQUIMAG AUTO CLEAN

Filter magnet system for liquid and pasty products

- Separation of finest magnetic metal contaminations (also slightly magnetised stainless steel particles)
- Especially suited for the requirements of the food industry
- Ensures constantly high product quality
- Automatic cleaning function
- "Plug & play" with pre-programmed control unit
- For pressure pipelines with up to 10 bar
- Certified for ATEX zone 0
- Most powerful magnetic flux density (13700 gauss)
- Hygienic Design
- Versatile connection possibilities
- Solid stainless steel design
- Optimal separation result without pressure drop
- Also suitable for the inspection of pasty media and products containing solids
- Suitable for CIP/SIP
- FDA compliant version



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Function:

Quality and quality inspection are of outstanding importance in the food industry, where processes that are used in production must be absolute state-of-the-art. The LIQUIMAG AUTO CLEAN type separators therefore are designed to meet all the requirements and specifications applicable in food production. The filter magnets can be easily integrated in existing conveying pipes in which liquid and pasty products are transported. The magnet separators require little maintenance, are cleaned automatically, and therefore guarantee economic and efficient operation.

The product is cleaned by means of magnet rods. After the set cleaning cycle time, a pneumatic cylinder moves the magnet cores out of the filter housing. Contaminations can be flushed out through the reject outlet by the continuous pumped product or by a separate flushing liquid.

Typical application areas:

- Food industry: butter, oils, sauces, chocolates, jam, juice
- Chemical industry: coolant, hydraulic fluid
- Pharmaceutical industry: preserving agents, saline solutions (medicine)

Magnet separators with N45 high-energy neodymium magnet material can be used for operating temperatures of up to 100°C. For high-temperature applications a special samarium-cobalt magnet material is available.

Performance features of LIQUIMAG AUTO CLEAN filter magnets:

- The very high magnet power of 1370 mT (13700 gauss) and the special arrangement of the magnet rods guarantee best-possible separation of magnetic contaminations.
- Even shear-stressed stainless steel particles that show a very low magnetism at the shear area can be removed with this magnet separator.
- Suitable for CIP ("cleaning in place") and SIP ("sterilisation in place").
- A version with double-wall filter housing that can be heated with warm water is available for applications involving products that can only be conveyed in heated condition.

