

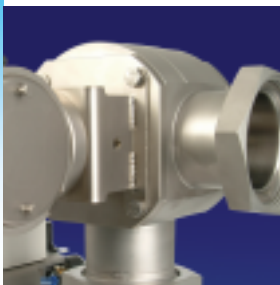
Pipeline metal detection systems

For liquids, pastes and slurries



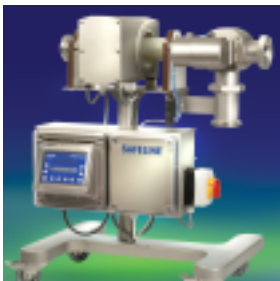
Easy to operate

Quick, easy setting through a robust membrane key panel, the well proven Signature electronics platform has long been the industry standard for metal detector operation.



Optional reject valves

A wide range of reject valves and integrated components are available enabling systems to be designed to suit specific needs.



Compact design

Mettler-Toledo Safeline pipeline metal detection systems are designed to be installed in restricted spaces in new or existing production lines. Use of ZMFZ technology minimises overall line length.

Pipeline metal detection systems

Mettler-Toledo Safeline's pipeline detectors are intended for use in the food industry and are built around our well proven L and LZ series detection heads.

These rugged, compact systems are suitable for the inspection of liquids, pastes and slurries; e.g. soups, liquid chocolate, meat pastes, etc.

Detection heads are designed to deliver unrivalled sensitivity detecting even difficult to find non-magnetic stainless steels.

Heads and systems are designed for minimised length allowing them to be inserted into new or existing lines where space is restricted.

Pipeline metal detection systems

For liquids, pastes and slurries

Features

- **Suitable for use in harsh environments**
- **Unrivalled detection sensitivity**
- **Compact design**
- **Space saving technology**
- **System integration**

Suitable for use in harsh environments

The L & LZ series detectors are intended for use in pipeline applications where the product to be inspected flows through a non metallic pipe positioned in the detector aperture. A reject valve can be positioned down line and on detection of metal will divert contaminated product.

Designed to operate in the harshest of "process" environments the L & LZ series metal detectors are constructed in stainless steel to a sealing standard in excess of IP66, a membrane covered control panel maintains the integrity of the sealing standard even during set up and removes the need for control panel doors which if left open can lead to expensive water damage.

Unrivalled detection sensitivity

L & LZ series metal detectors offer the highest levels of sensitivity across a wide range of applications. The use of Safeline's high frequency technology combined with enhanced filtering techniques ensures they deliver the highest levels of sensitivity. All metal types and shapes are detectable including the normally difficult to detect non magnetic stainless steels and non spherical contaminants such as wire, swarf and slithers of metal. A choice of single or dual frequency versions allows optimisation of detection sensitivity over a wide range of products.

Compact design

The L series detectors are available in a range of aperture to suit most applications. The detector is extremely compact; the electronics and control panel are physically remote from the detector facilitating a small compact detector design suitable for use in confined spaces. Two types of detector are available; the standard L version offers the highest levels of detection sensitivity where pipe length is not critical. Also available is the space saving LZ version for use where pipe length is critical and or where metal is positioned close to the detector aperture.

Space saving technology

The LZ series metal detectors utilise Safeline's revolutionary zero metal free zero (ZMFZ) technology to allow these detectors to work in close proximity to other metal structures and process equipment. An internal cancellation (ICF) is generated in opposition to the primary magnetic field of the detector; this subsequently inhibits the leakage of the magnetic field, and therefore, reduces the insertion space required and allows the use of minimal length throughput pipes with metallic fittings.

Systems integration

The Safeline design service will be pleased help you integrate the L series in to your own specific application. A locally based specialist will visit your plant and help you find the most effective solution. A wide range of solutions are available RJT, DIN, Triclamp and ISS are just some of the standard range of fittings supplied together with reject valves and custom support frames.

Specialist reject valves are available to cope with a variety of product types including those with high viscosity or with suspended solids. A range of specially designed cutting valves can be supplied for pumped meats and semi-solid products. Flow meters and viscosity sensors can be incorporated into the line to further enhance the operation of the reject system; water jacketed pipes and reject valves are available for liquid chocolate and other products liable to solidify.



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