

Gravity FlowSD™ Metal Detection Systems



Stainless Steel Construction

Easy to clean with quick release connector for reject valve.



Compact Design

The compact design fits easily into most lines.



User Friendly Interface

The washdown rated control panel is user intuitive and was designed to simplify operations.



Inspection of Powdered and Granular Products

Safeline's Gravity FlowSD™ metal detector is guaranteed to detect all tramp metal contamination from free-flowing materials, maintaining a stringent inspection standard on high volume bulk product lines.

This compact metal detector is ideal where space is limited. The cylinder has a faster response time than other gravity feed metal detectors and fits easily into your line. The cost-effective Y-valve is extremely easy to clean and can be rated to NEMA 4X standards. The reject swings out easily for cleaning which offers minimal wear to moving parts.

Gravity FlowSD™ Metal Detector System

- **Designed for high volume applications**
- **PowerPhase protection for ultimate sensitivity**
- **Vibration immunity**

High Efficiency Diverter - The newly designed reject valve incorporates high-speed pneumatics with a cushioned cylinder. It also enables large granular items to be inspected without danger of blockage or wear which can be a problem with rejects utilizing a flexible sealed flap. The complete mechanism has smooth flow lines and can be quickly dismantled without tools for inspection and cleaning.

Reject Confirmation - When additional security is required, or if frequent testing is impractical, the optional reject confirmation will signal an alarm if metal is detected and the reject mechanism fails to respond within a pre-set time. Reject swings out easily for inspection and cleaning.

For In-Line Testing and Performance Validation - Access and retrieval ports are supplied on the inlet and outlet pipes. Line personnel simply drop a standard test sample, embedded with a metallic test ball, into the product flow. Removable stainless steel grids, mounted on the accept and reject ports, allow the sample to be easily recovered. The detector automatically calls for performance checks when required and issues a "Test Overdue" warning if the test is not promptly completed. Once the test is successfully completed, the detector reverts to normal operation.

Standard models are available with throughput pipes from 4" to 10", for product flows (other sizes available upon request).

Duplex System - Minimizes waste on costly products such as plastic resin. The product rejected from the first system is trickle fed through a second detector. Contamination is again rejected and up to 80% of the acceptable product is redirected to the main flow.

High Abrasive Applications - To inspect abrasive products such as grain or rice.

Specifications - Electrical: 80V ac – 260V ac, 50/60 HZ

Air: 80PSI

Safeline - making your products safer.



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