

# Sealtite / Open Diverter Gravity Fall

## Metal detection systems for powders & granules



### Signature technology

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.



### Profile technology

Optional modern full colour touch screen interface is available through the latest Profile electronics platform. Providing a host of on screen features, Profile technology is the modern way to manage metal contamination and detection issues.



### Easy clean design

Designed to be dismantled quickly and easily without the need for special tools, Sealtite and open diverter reject devices provide 'easy-clean' access for minimised downtime.

### Sealtite / Open Diverter Gravity Fall

Designed to detect and reject metal contaminated product in bulk gravity fall applications, Mettler-Toledo Safeline's Sealtite and open diverter systems provide the optimum solution for the inspection of powdered and granular products.

Unrivalled sensitivity allows for the detection of all metal contaminants including normally difficult to detect non-magnetic stainless steels.

Sealtite technology is well suited to fine particle or dusty products whilst open diverter technology is more suited to products with larger particles reducing the risk of blockages. All systems are designed for minimised height allowing them to be installed in applications where space is restricted.

## Sealtite / Open Diverter Gravity Fall

Metal detection systems for powders & granules

### Features

- **Unrivalled detection sensitivity**
- **Sealtite or Open Diverter reject mechanisms**
- **Reduced installation space**
- **In-line validation and test routines**
- **Atex Compliant to Ex II Cat 2D T79 C**

### Unrivalled detection sensitivity

Safeline metal detectors offer the highest levels of sensitivity across a wide range of applications. The use of high frequency technology combined with enhanced filtering techniques deliver the highest levels of sensitivity across all metal types, including the normally difficult to detect non magnetic stainless steels. Non spherical contaminants such as wire, swarf and slithers of metal are also detected.

### Sealtite or Open Diverter reject mechanisms

The Sealtite Diverter mechanism all but eliminates the risk of dust and fine product particles escaping down the reject chute during normal production. The reject mechanism incorporates a unique, backplate mounted compression seal interlinked by levers to the reject diverter. The Open Diverter mechanism is intended for use with products that contain particulates. Particulates increase the risk of blockages if they become trapped in the diverter mechanism. Quick release clamps allow both types of reject housing to be quickly opened for access and cleaning.

### Reduced Installation Space

Incorporating unique, patented Internal Cancellation Field (ICF) technology and a high speed diverter mechanism the Safeline gravity fall system can be installed in close proximity to other metal structures with minimal vertical space requirements.

### In-line Validation and test routines

Integrated in-line performance validation and test facilities, essential for evidencing customer and regulatory compliance, are available to assist the user and verify correct system operation and usage.

### Atex Compliant to Ex II Cat 2D T79 C

Designed to work in dusty environments where there is potential explosion hazard the Safeline gravity fall systems are ATEX compliant.

### Profile touch screen or Signature membrane electronics

A choice of electronics from the very latest Profile electronics with touch screen icon driven windows style interface or the more familiar membrane Signature electronics. Both electronic options offer sophisticated digital signal processing with a long list of features. For more detailed information see separate data sheet.



Product Data Model	Tube Diameter	Typical Throughput Kg/hr	Overall Length	Max Fall Height	Sensitivity Fe	Non-Fe	SS
GF 50	50	1,500	720	350	0.25	0.3	0.4
GF 100	100	6,000	873	550	0.4	0.45	0.5
GFRH 100	100	6,000	650	300	0.6	0.67	0.7
GF 150	150	13,500	1050	800	0.6	0.7	0.8
GFRH 150	150	13,500	911	300	0.9	1.0	1.1
GF 200	200	24,000	1217	800	0.7	0.8	1.0
GFRH 200	200	24,000	1100	500	1.0	1.1	1.3
GF 250	250	38,000	1180	800	0.9	1.0	1.2
GF 300	300	54,000	2000	800	1.0	1.2	1.4

Sensitivity data is given as general guide, achievable sensitivity may be dependent on product.

Dimensions in mm

### Mettler-Toledo Safeline Limited

Monkford Street  
Salford M50 2XD  
Tel +44(0)161 848 8636  
Fax +44(0)161 848 8595  
email sales@safeline.co.uk

[www.safeline.co.uk](http://www.safeline.co.uk)

Visit for more information