

GF PRIMUS

Metal separator for pneumatic conveyor pipes

- detects and removes even the smallest magnetic and non-magnetic metal particles from regranulates and virgin material
- removes metal contaminants without any interruption to the production process or reduction of flow rate
- reduces production downtimes and damage to machinery
- easy to integrate in existing pipelines with "Easy Mount" assembly system
- can be integrated into pipelines of any orientation
- effective and reliable detection and removal of contaminants even at high speeds
- product effect compensation: intrinsic conductivity of bulk materials (eg from moisture or carbon) can be "tuned out"
- sealed separation unit so flow rate is unaffected by extraneous air flow



GF PRIMUS metal separators remove magnetic and non-magnetic metal particles (steel, stainless steel, aluminium etc) from pneumatically conveyed bulk materials such as granulates and regranulates. Metal contaminants (even those contained in granulate) are removed by means of a specially designed reject flap ('Quick Flap System') which

operates reliably and effectively even at high speeds, without any interruption to the material flow. Contaminated material is rejected into a container. The reject container is emptied automatically. A further advantage of the "Quick Flap System" is the minimal loss of good material.



GF PRIMUS metal separators are used in vacuum and pressure pipelines primarily for protecting plastics processing machinery. They are installed in pipelines prior to processing machinery, day silos or driers.

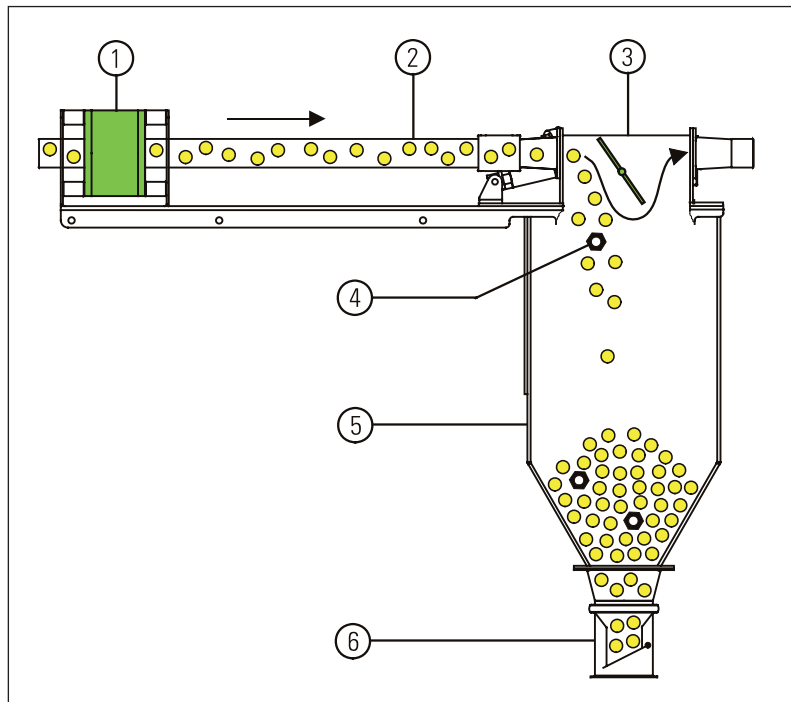
GF PRIMUS metal separators can be integrated in horizontal, vertical and inclined vacuum and pressure pipes. Retrospective installation in existing pipelines is straightforward and simple to achieve with the "Easy Mount" assembly system.



GF metal separator installed in vertical pipes

GF PRIMUS metal separators offer the following performance features:

- excellent metal detection, maximum resistance to interference and high mechanical and operational reliability
- automatic self-calibration and continuous self-monitoring and temperature adjustment
- fully automatic process with no interruption to flow of material once optimal customisation of scanning sensitivity and reject duration is achieved
- stainless steel (1.4301) separation unit supplied as standard



1) Detection coil 2) Scanning pipe 3) Separation unit 4) Metal 5) Reject container 6) Shutting flap (used in vacuum conveying)

- modular design concept provides flexibility to adapt to different conveying methods
- easily integrated into existing horizontal, vertical and inclined vacuum and pressure pipe systems
- "Quick Flap System" minimises loss of good material
- options available to accommodate materials at high temperature, exacting hygiene standards or abrasive, powdery bulk materials

Typical applications:

- Automobile industry: bumpers
- Electronics industry: connector components
- Data processing: optical discs
- Household goods: housing components
- Drinks industry: bottle caps
- Construction industry: profiles

GF PRIMUS metal separators are available in the following standard widths: 40, 50, 60, 70 mm. Other sizes available on request.

For detailed information please request our technical data sheet.