

# RAPID VARIO-FS

## Metal separator for free-fall applications

- Detects and separates magnetic and non-magnetic metal contamination, even when enclosed in product
- Reduces expensive machinery failure and minimises production downtime
- Ensures product quality
- Prevents customer complaints
- Break even within a very short period of time



- Separation unit and product-contacting metal parts completely made of stainless steel 1.4301 (AISI 304)
- Low installation height; the metal separator can be easily fitted into existing pipeline systems
- Separated detection and separation units:
  - Free-fall height can be individually adjusted on site
  - \*Position of waste reject unit can be turned to match position of collecting tray
- Standard Jacobs adaptors for inlet and outlet ensure quick, hassle-free installation
- Auto-Set (auto-teach function) or manual product compensation (no fixed setting) for improved adaptation to the intrinsic conductivity of the product to be inspected
- Pre-installed parameters for simplified operation
- Enhanced signal-to-noise-ratio minimises electromagnetic pollution and vibrations



Installation example: Metal separator RAPID VARIO-FS used for the quality control of PET regenerate. (old version)

### Scope of delivery:

- Metal separator with separated detection and separation units (mounted via standard Jacobs adaptors)
- Control Unit PRIMUS+

### Options/Accessories:

- Audible and visual alarm systems
- Feed hopper and filler inlet
- Digital incident counter
- Air pressure monitor
- Magnet system to remove Fe contaminants
- High temperature resistant
- Special design for abrasive bulk goods
- UL/CSA Certification
- Removable control unit
- ATEX design

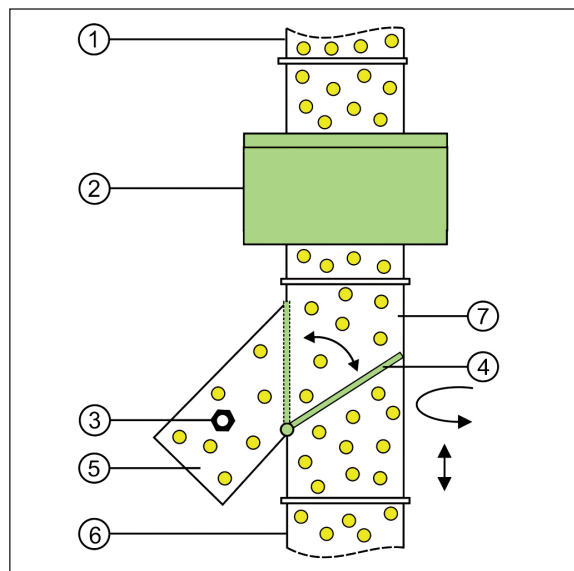


### Product Description:

The RAPID VARIO-FS metal separator is used to inspect bulk goods under free-fall conditions. It detects all magnetic and non-magnetic metal contaminations (steel, stainless steel, aluminium) – even when enclosed in the product. Metal contaminations are rejected through the “Quick Flap” reject unit.

The RAPID VARIO-FS is used mainly in industries with low hygiene applications.

### Function Chart:



- 1) Infeed    2) Detection coil    3) Metal contamination  
 4) Separation flap    5) Waste rejection    6) Material outlet  
 7) Separation unit (turnable, removable)

### Typical Application Areas:

- Plastics industry, In-house recycling
- Recycling industry
- Wood industry
- Chemical industry
- Food industry
- Feedingstuff industry

### Application:

- Machinery protection for extruders, blow moulding machines, fine grinding mills, after dosing (rotary valve, vibratory feed chutes)
- Quality control e.g. for final inspection of outgoing goods, granulate, reclaim, bagging stations, dryers and packing stations