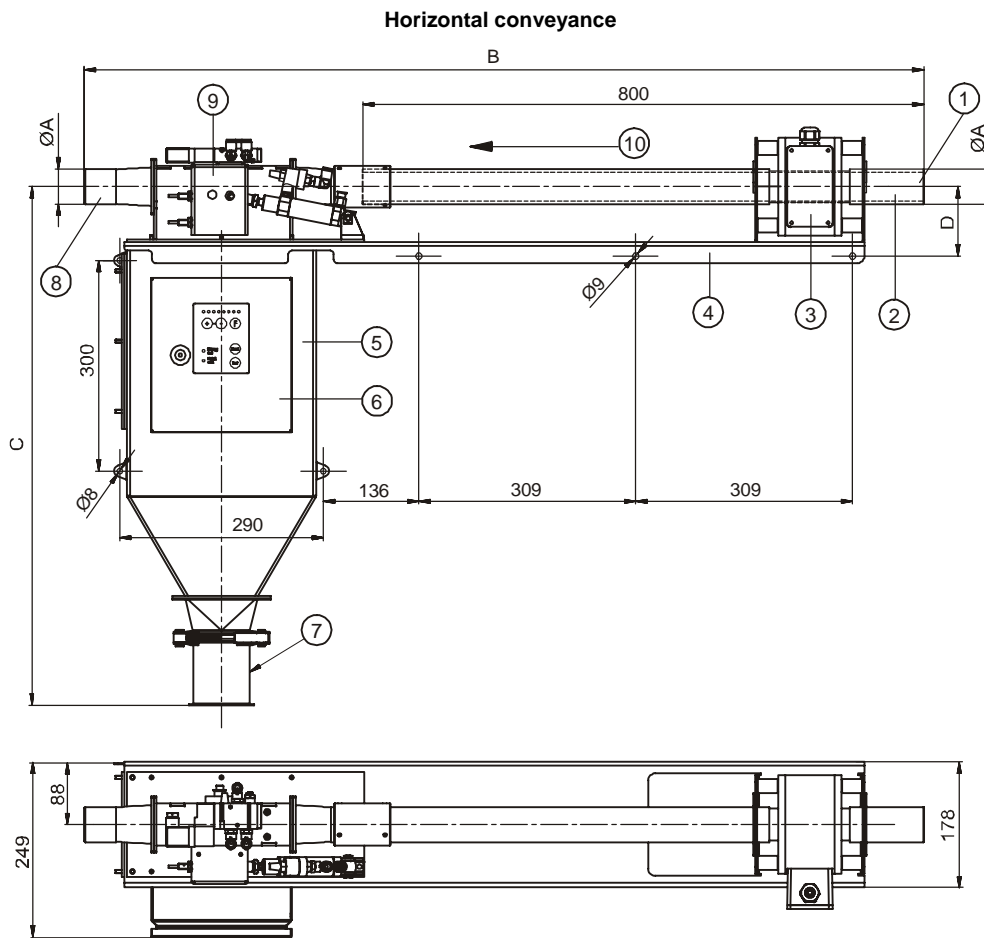


# GF 40-70-PRIMUS metal separator

## ■ Dimensions



- |                  |  |
|------------------|--|
| 1 Inlet          | 6 Control unit                         |
| 2 Scanning pipe  | 7 Reject outlet (80 mm „System Jacob“) |
| 3 Detection coil | 8 Material outlet                      |
| 4 Mounting frame | 9 Separation unit                      |
| 5 Container      | 10 Conveying direction                 |

## ■ Technical data

Type	GF-P 40	GF-P 50	GF-P 60	GF-P 70
Article number	GF-P040-0	GF-P050-0	GF-P060-0	GF-P070-0
Inlet and outlet pipe diameter $\varnothing A$	40 x 3.7	50 x 4.6	60 x 2.1	70 x 1.8
Effective ID of inlet pipe	32.6	40.8	55.8	66.4
B	1156	1196	1210	1266
C	734	739	744	747
D	94	99	104	107
<b>Maximum scanning sensitivity<sup>1)</sup> <math>\varnothing</math> Fe-ball:</b>				
at V = 10 m/sec	0.50	0.50	0.62	0.70
at V = 20 m/sec	0.61	0.61	0.77	0.86
Weight [kg]	26.5	26.5	26.5	27.5

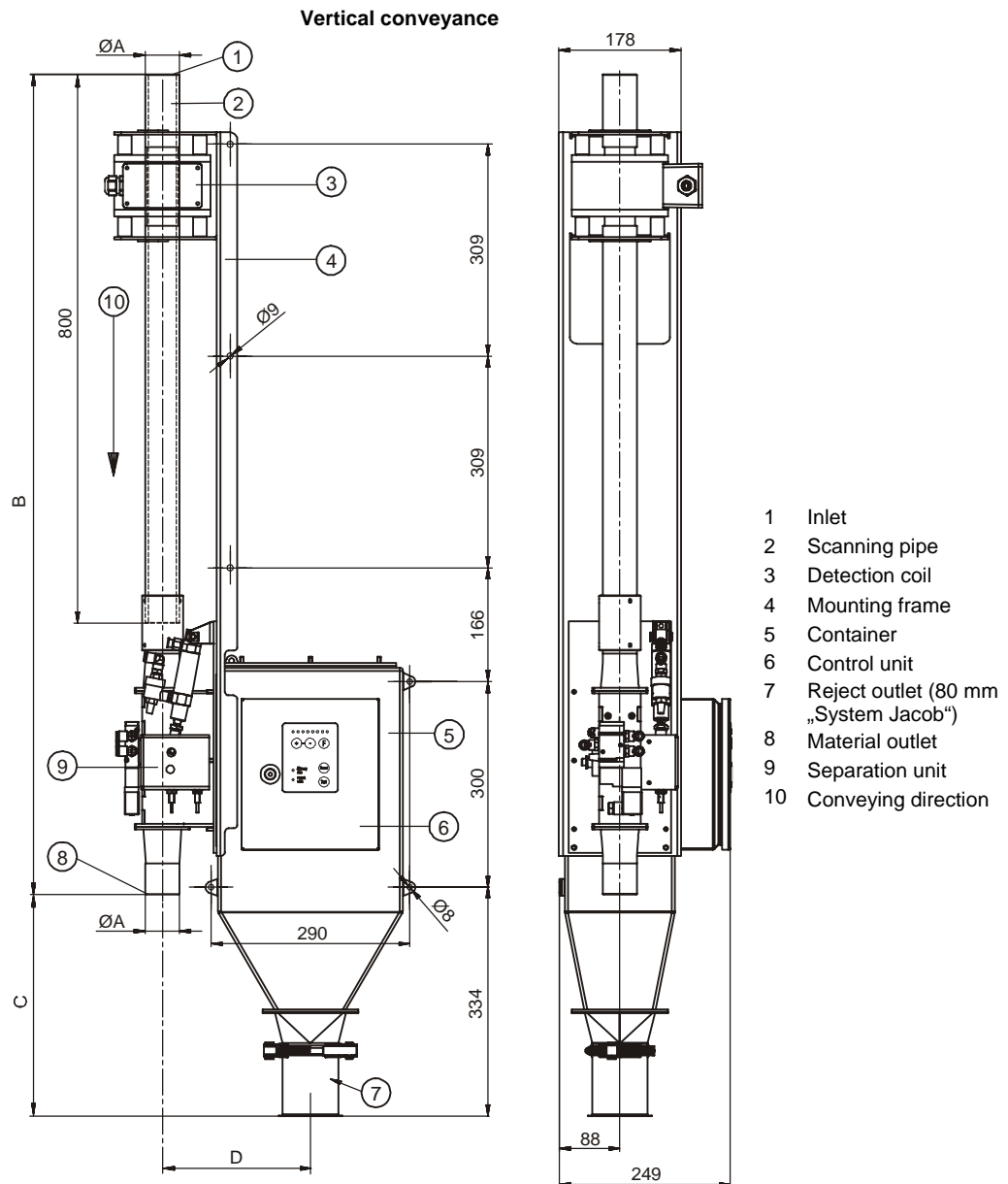
Larger types on request

All dimensions in mm

<sup>1)</sup> The specified sensitivity (sphere  $\varnothing$  in mm) is related to the centre of the aperture of the detector (most unfavourable position). The achievable sensitivity within a product depends on its product effect (intrinsic conductivity caused by moisture, carbon content, metal oxides etc.), the product temperature and environmental influences. The detectability of metal particles is also determined by their nature, shape and position.

# GF 40-70-PRIMUS metal separator

## ■ Dimensions



## ■ Technical data

Type	GF-P 40	GF-P 50	GF-P 60	GF-P 70
Article number	GF-P040-0	GF-P050-0	GF-P060-0	GF-P070-0
Inlet and outlet pipe diameter $\varnothing A$	40 x 3.7	50 x 4.6	60 x 2.1	70 x 1.8
Effective ID of inlet pipe	32.6	40.8	55.8	66.4
B	1156	1196	1210	1266
C	331.5	323.5	323.5	296.5
D	215	220	225	228
<b>Maximum scanning sensitivity<sup>1)</sup> <math>\varnothing</math> Fe-ball:</b>				
at V = 10 m/sec	0.50	0.50	0.62	0.70
at V = 20 m/sec	0.61	0.61	0.77	0.86
<b>Weight [kg]</b>	26.5	26.5	26.5	27.5

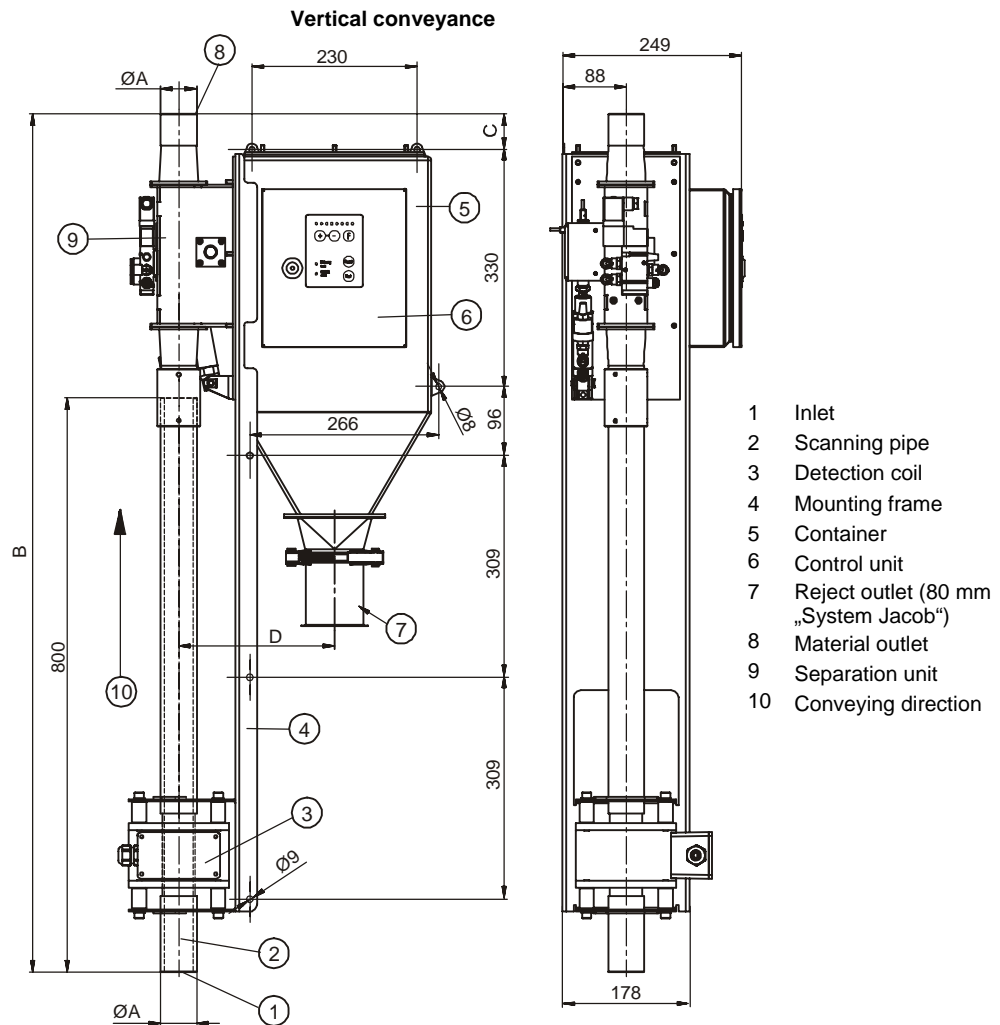
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All dimensions in mm

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## ■ Dimensions



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Article number	GF-P040-0	GF-P050-0	GF-P060-0	GF-P070-0
Inlet and outlet pipe diameter $\varnothing A$	40 x 3.7	50 x 4.6	60 x 2.1	70 x 1.8
Effective ID of inlet pipe	32.6	40.8	55.8	66.4
B	1156	1196	1210	1266
C	42.5	50.5	50.5	77.5
D	215	220	225	228
<b>Maximum scanning sensitivity<sup>1)</sup> <math>\varnothing</math> Fe-ball:</b>				
at V = 10 m/sec	0.50	0.50	0.62	0.70
at V = 20 m/sec	0.61	0.61	0.77	0.86
<b>Weight [kg]</b>	26.5	26.5	26.5	27.5

Larger types on request

All dimensions in mm

<sup>1)</sup> The specified sensitivity (sphere  $\varnothing$  in mm) is related to the centre of the aperture of the detector (most unfavourable position). The achievable sensitivity within a product depends on its product effect (intrinsic conductivity caused by moisture, carbon content, metal oxides etc.), the product temperature and environmental influences. The detectability of metal particles is also determined by their nature, shape and position.



# GF 40-70-PRIMUS metal separator

## ■ Conditions of use

- Use:** For the inspection of granulated and ground material in vacuum or pressure feeding systems in the plastics industry as well as other industries with similar applications.
- Product characteristics:** Dry, pourable, no long fibres, possibly existing product effect compensatable, grain size < 8 mm
- Product temperature:** -10° C to +80° C
- Ambient temperature:** -10° C to +60° C

## ■ Scope of delivery / Standard design

- Scope of delivery:** Compact unit with integrated metal detector, separation unit with container, mount on PRIMUS control unit.
- Operation:**
- Membrane keypad with 3 keys as well as Reset and Test buttons
  - Access protection
  - LED lights for operation, metal alarm and fault
- Separation unit:** Stainless steel 1.4301 (AISI 304), PTFE
- Electronics housing:** Mild steel, varnished, aluminium grey (RAL 9007)
- Parts in contact with material:** Stainless steel 1.4301 (AISI 304), PE-EL
- Scanning pipe:** PE-EL (antistatic)
- Operating voltage:** 100-240 VAC (±10%), 50/60 Hz
- Current input:** Approx 160 mA/115 V, approx 80 mA/230 V
- Mains cable:** 1.8 m with plug
- Type of protection:** IP 54
- Compressed air connection:** 6-8 bar; 6/8 mm tube connection
- Vacuum conveying:** 0.5 bar
- Pressure feeding:** Maximum 2 bar
- Maximum material conveying speed:** 20 m/sec
- Eject duration:** Adjustable from 0.05 to 29 sec
- Scanning sensitivity:** Selectable with 8 adjustments
- Self monitoring:** Detection coil and outputs

## ■ Options / Accessories

- |   |   |
|---|---|
| <input type="checkbox"/> External beacon                                  | <input type="checkbox"/> Counter (number of detections)   |
| <input type="checkbox"/> Alarm indication                                 | <input type="checkbox"/> Compressed-air monitor   |
| <input type="checkbox"/> Alarm and metal indication                       | <input type="checkbox"/> Level indicator for reject box   |
| <input type="checkbox"/> External horn                                    | <input type="checkbox"/> Continuous vacuum or pressure conveying: automatic emptying of the reject bin by means of two pinch valves |
| <input type="checkbox"/> Alarm indication                                 | <input type="checkbox"/> Discontinuous pressure conveying: automatic emptying by means of one pinch valves                          |
| <input type="checkbox"/> Alarm and metal indication                       | <input type="checkbox"/> Function monitor for reject diverter   |
| <input type="checkbox"/> External signal combination (beacon / horn)      | <input type="checkbox"/> Low wear scanning pipe   |
| <input type="checkbox"/> Alarm indication                                 | <input type="checkbox"/> Test samples   |
| <input type="checkbox"/> Alarm and metal indication                       |   |
| <input type="checkbox"/> Control unit can be operated remotely up to 15 m |   |
| <input type="checkbox"/> Filter control valve                             |   |

## ■ Special versions

- |  |   |
|--|---|
| <input type="checkbox"/> Special supply voltages     | <input type="checkbox"/> Product temperature to 140° C    |
| <input type="checkbox"/> Special varnishes           | <input type="checkbox"/> Higher product temperature range |
| <input type="checkbox"/> High abrasive materials     | <input type="checkbox"/> Explosion-proof                  |
| <input type="checkbox"/> Pipe connections customized | <input type="checkbox"/> .....                            |
| <input type="checkbox"/> .....                       |   |