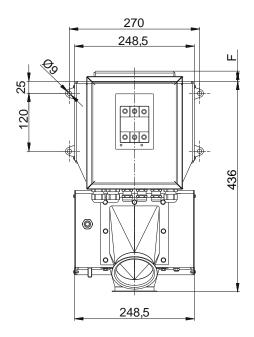
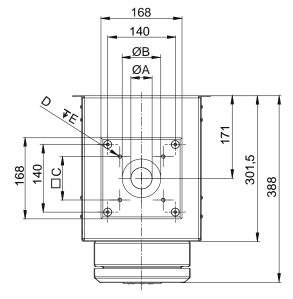
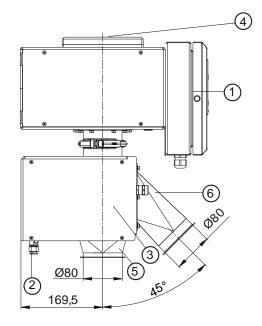
کر moton

Metal separator Metro SF 50 / 70 / 100 / 150

■ Dimensions Metro SF 50 / 70







- 1 Control unit MS+ Control
- 2 Compressed-air connection
- 3 Separation unit
- 4 Inlet flange plate
- 5 Material outlet (Jacob pipe system)
- 6 Reject outlet (Jacob pipe system)

All dimensions in mm

■ Technical data

Туре	Maximum sensitivity 1) Ø Ferrous ball	Maximum throughput 2)	ØA	ØB	С	D	E	F	Weight [kg]
Metro SF-050	0.4	2000 l/h	44	80	90	M8	15	21	26
Metro SF-070	0.5	5000 l/h	68	80	90	M8	15	21	26
Option Colortronic									
Metro SF-050	0.4	2000 l/h	44	50	110	M10	10	16	26
Metro SF-070	0.5	5000 l/h	/	68	110	M10	10	16	26

¹⁾ The stated detection sensitivity (ferrous ball Ø in mm) applies for nonconductive products at the standard operation frequency and refers to the centre of the detection aperture (most disadvantageous position). Products that show intrinsic conductivity due to moisture content, electrolytes or other conductive contents may reduce the sensitivity as well as variations of product temperature, environmental effects (mechanical shocks and vibrations, electromagnetic pollution) or the set product angle. The detectable size of metal particles depends on their nature, shape and position while passing the

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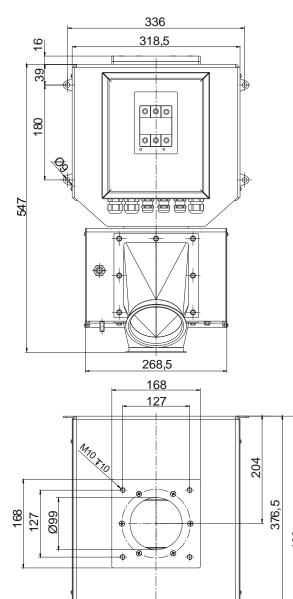
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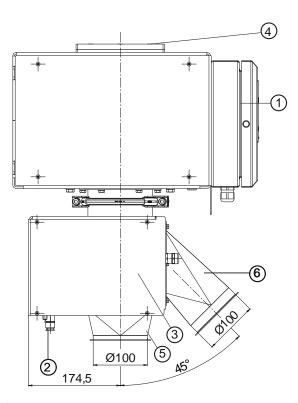
The stated throughput rate is based on well pourable granules. The shape of the particles and thus the flow characteristic of the bulk material determine the throughput rate which can vary. Upstream installed magnet separators may also reduce the throughput rate due to reduction of the cross section. All dimensions in mm

چک moton

Metal separator Metro SF 50 / 70 / 100 / 150

■ Dimensions Metro SF 100 (Option Colortronic)





- 1 Control unit MS+ Control
- 2 Compressed-air connection
- 3 Separation unit
- 4 Inlet flange plate
- 5 Material outlet (Jacob pipe system)
- 6 Reject outlet (Jacob pipe system)

All dimensions in mm

Technical data

Туре		Maximum sensitivity 1) Ø Ferrous ball	Maximum throughput ²⁾	Weight [kg]	
ĺ	Metro SF-100	0.7	12000 l/h	31	

¹⁾ The stated detection sensitivity (ferrous ball Ø in mm) applies for nonconductive products at the standard operation frequency and refers to the centre of the detection aperture (most disadvantageous position). Products that show intrinsic conductivity due to moisture content, electrolytes or other conductive contents may reduce the sensitivity as well as variations of product temperature, environmental effects (mechanical shocks and vibrations, electromagnetic pollution) or the set product angle. The detectable size of metal particles depends on their nature, shape and position while passing the

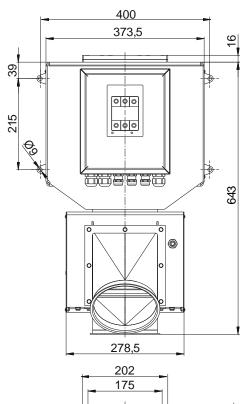
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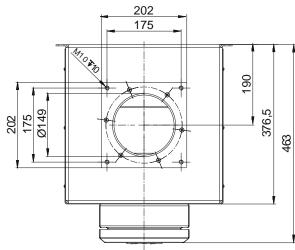
²⁾ The stated throughput rate is based on well pourable granules. The shape of the particles and thus the flow characteristic of the bulk material determine the throughput rate which can vary. Upstream installed magnet separators may also reduce the throughput rate due to reduction of the cross section.

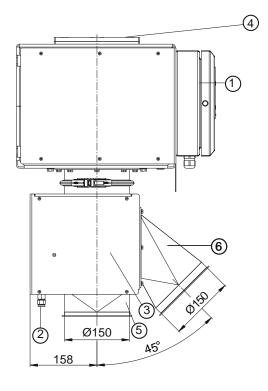
کر moton

Metal separator Metro SF 50 / 70 / 100 / 150

■ Dimensions Metro SF 150 (option Colortronic)







- 1 Control unit MS+ Control
- 2 Compressed-air connection
- 3 Separation unit
- 4 Inlet flange plate
- 5 Material outlet (Jacob pipe system)
- 6 Reject outlet (Jacob pipe system)

All dimensions in mm

Technical data

Туре	Maximum sensitivity 1) Ø Ferrous ball	Maximum throughput ²⁾	Weight [kg]	
Metro SF-150	1.2	25000 l/h	40	

¹⁾ The stated detection sensitivity (ferrous ball Ø in mm) applies for nonconductive products at the standard operation frequency and refers to the centre of the detection aperture (most disadvantageous position). Products that show intrinsic conductivity due to moisture content, electrolytes or other conductive contents may reduce the sensitivity as well as variations of product temperature, environmental effects (mechanical shocks and vibrations, electromagnetic pollution) or the set product angle. The detectable size of metal particles depends on their nature, shape and position while passing the metal detector.

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The stated throughput rate is based on well pourable granules. The shape of the particles and thus the flow characteristic of the bulk material determine the throughput rate which can vary. Upstream installed magnet separators may also reduce the throughput rate due to reduction of the cross section.

Metal separator Metro SF 50 / 70 / 100 / 150

Conditions of use	
Use:	For inspecting free falling bulk materials in the plastics industry and similar applications in

Bulk material classification:

Powder, Granulates, Flakes Grain shape: Ball shape Ø < 8 mm, Max. grain size: Good, medium, poor Pourability:

Dry, damp, not abrasive, product effects (material conductivity) can be compensated Attributes:

Material flow: Free fall, falling height max 500 mm above top edge

(No back draft of material), depressurized

Bulk material temperature: Maximum +80° C

Ambient conditions: -10° C to +50° C, 25% to 85% rH, no condensation Storage and shipping conditions: -10° C to +50° C, 25% to 85% rH, no condensation

Scope of delivery / Design / Connections

Metal separator comprising two moduls, a detection modul with the attached control unit MS+ Control Scope of delivery:

and a separation modul connected by a pull ring. Inlet and outlets made according to Jacob pipe system.

Electronics housing: sheet steel, varnished, aluminium grey (RAL 9007) Mechanical design:

Detection unit: nominal width 30-70, cover plate varnished, aluminium grey (RAL9007)

nominal width 100-250 cover plate stainless steel 1.4301 (AISI 304),

surface brushed

Separation unit complete: stainless steel 1.4301 (AISI 304), bead blasted

PE-EL (electrical conductive to avoid false tripping) Scanning pipe: Parts in contact with product: stainless steel 1.4301 (AISI 304), PE-EL, Teflon, PA, aluminium

other industries as well as applications with low hygienic requirements.

Compressed air connection: 5-8 bar; 6/8 mm hose connection

Compressed air consumption: Metro SF 50, 70, 100: approx. 0.4 l / switch operation

Metro SF 150: approx. 0.5 I / switch operation

Electrical design: Operating voltage: 100-240 VAC (±10%), 50/60 Hz

Current consumption: approx. 300 mA / 115 V, approx.150 mA / 230 V Mains cable: 1.8 m with plug IP 65 (rain shelter required if operated outdoor)

Ingress protection: Eject duration (metal impulse): adjustable from 0.05 to 60 sec Self-monitoring system: detection coil and outputs adjustable from 1% to 100% Scanning sensitivity:

Operation: see technical data sheet for Control Unit MS+ Control

Accessories

•	710000001100						
	☐ Visual alarm	☐ Filter control valve	☐ Push button for functional test in				
	☐ Failure indication	☐ Counter (Detection counter) in a	a separate housing				
	☐ Failure and metal indication	separate housing	☐ Test samples				
	☐ Audible alarm	□ Push button for manual rejection	☐ Reject outlet, connection piece with				
	☐ Failure indication☐ Failure and metal indication	in a separate housing	clamping ring and spiral tube (d=80mm), length 3 m				
	☐ Combination alarm (visual alarm and audible alarm)						
	☐ Failure indication						
	☐ Failure and metal indication						
I	Options						
	☐ Compressed-air monitor	☐ Explosion-proof version ATEX	☐ Cable set for remote control unit:				
	☐ Monitor system for separation unit	☐ US-power cable	3 m, 6 m, 10 m, 15 m				
ı	Special versions / Supplementa	ary systems					
	☐ Special varnishes	☐ Model with improved wearout protection in plastics applications					
☐ Special supply voltages		☐ Pipe transition pieces, customized flanges					
	☐ Design for bulk material temperatures up to 140° C	☐ Magnet systems for pre-removal of☐ Inline magnet	f ferrous metals				
	☐ Design suitable for direct contact with food stuff	☐ Magnet drum separator					

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