Page 1 of 4

Metal separator Metro SC 45 / 50 / 60 / 65

Dimensions



- 2 Scanning pipe
- 3 Detection coil

Container

Control unit

Mounting frame

- Separation unit 9
 - Conveying direction horizontal 10
 - Cover plate (to set up machinery and conveying direction on site) 11

All dimensions in mm

Technical data

4

5

6

Туре	Metro SC 45	Metro SC 50	Metro SC 60	Metro SC 65
Inlet and outlet pipe diameter ØA	50 x 4.6	50 x 4.6	60 x 2.1	70 x 1.8
Effective ID of inlet pipe	40.8	40.8	55.8	66.4
Motan customized Inlet and outlet	45 x 1.5	50 x 1.5	60 x 1.5	65 x 1.5
В	1196	1196	1210	1266
C	823	823	828	831
D	105	105	110	113
Maximum scanning sensitivity ¹⁾ Ø Fe-ball:				
at V < 20 m/sec	0.4	0.4	0.5	0.5
at V ≥ 20 m/sec	0.5	0.5	0.7	0.7
Weight [kg]	26.5	26.5	26.5	27.5

Annotation:

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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Metal separator Metro SC 45 / 50 / 60 / 65

Dimensions





Inlet 1

- 2 Scanning pipe
- 3 Detection coil
- Mounting frame 4
- 5 Container
- 6 Control unit
- 7 Reject outlet (120 mm "System Jacob")
- 8 Material outlet (customized for nominal Motan width)

Page 2 of 4

- 9 Separation unit
- Vertical conveying direction, material flow 10 from top to bottom
- Cover plate (to set up machinery and con-11 veying direction on site)

Technical data

Туре	Metro SC 45	Metro SC 50	Metro SC 60	Metro SC 65
Inlet and outlet pipe diameter ØA	50 x 4.6	50 x 4.6	60 x 2.1	70 x 1.8
Effective ID of inlet pipe	40.8	40.8	55.8	66.4
Motan customized Inlet and outlet)	45 x 1.5	50 x 1.5	60 x 1.5	65 x 1.5
В	1196	1196	1210	1266
С	407.5	407.5	407.5	375.5
D	220	220	225	228
E	105	105	110	113
Maximum scanning sensitivity ¹⁾ Ø Fe-ball:				
at V < 20 m/sec	0.4	0.4	0.5	0.5
at V ≥ 20 m/sec	0.5	0.5	0.7	0.7
Weight [kg]	26.5	26.5	26.5	27.5

Annotation:

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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All dimensions in mm

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Metal separator Metro SC 45 / 50 / 60 / 65

Dimensions





Inlet

- Scanning pipe
- Detection coil
- Mounting frame
- Container
- Control unit
- Reject outlet (120 mm "System Jacob") Material outlet (customized for nominal
- Motan width) Separation unit

Page 3 of 4

- Vertical conveying direction, material flow from bottom to top
- Cover plate (to set up machinery and conveying direction on site)

Technical data

Туре	Metro SC 45	Metro SC 50	Metro SC 60	Metro SC 65
Inlet and outlet pipe diameter ØA	50 x 4.6	50 x 4.6	60 x 2.1	70 x 1.8
Effective ID of inlet pipe	40.8	40.8	55.8	66.4
Motan customized Inlet and outlet	45 x 1.5	50 x 1.5	60 x 1.5	65 x 1.5
В	1196	1196	1210	1266
С	798.5	798.5	798.5	830.5
D	220	220	225	228
E	105	105	110	113
Maximum scanning sensitivity ¹⁾ Ø Fe-ball:				
at V < 20 m/sec	0.4	0.4	0.5	0.5
at V ≥ 20 m/sec	0.5	0.5	0.7	0.7
Weight [kg]	26.5	26.5	26.5	27.5

Annotation:

All dimensions in mm 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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Metal separator Metro SC 45 / 50 / 60 / 65

etal separato	or Metro	SC 45 / 50 / 6	65 / 65		motan	
Conditions of us	se					
Use:		In the plastics industry, for the inspection of granulate, regenerated material, or ground material in a discontinuous vacuum conveyor pipe, and also in other industry sectors with				
Bulk material classificat	ion:	similar applications and with	low hygienic deman	us.		
Grain shape:		Granulates, regrind, grist, fla	ikes			
Max. grain size:		Ball Ø < 8 mm				
Pourability:		Good, medium				
Attributes:		Dry, damp, not abrasive, pro	duct effects (conduc	tivity) can potentially	be compensated	
Material flow:		Pneumatic air conveying, dis max. speed of conveyed ma Optional equipment version tinuous pressure conveying.	scontinuous vacuum terial 20 m/sec for continuous vacuu	conveying m conveying, and co	ontinuous or discon-	
Max. permissible und	lerpressure	-0.5 bar				
in the vacuum conversionMax. permissible over	yor pipe: rpressure in	0.5 bar				
the pressure conveye	or pipe:	Maximum 180° C				
Ambient conditions:	alure.	-10° C to +50° C 25% to 85	% rH no condensatio	n		
 Storage and shipping 	conditions:	-10° C to +50° C, 25% to 85	% rH, no condensation	on		
Scope of deliver	, rv / Desian	/ Connections				
Scope of delivery:	Metal sep Control co	arator with detection and se	paration unit, collecti nts are pre-assemble	ng container for reje d for easy installatio	ct material, and MS+ on. Inlet and material	
Machanical designs	outlet con	nection by way of pipe cou	iplings, reject outlet	connection with Jac	cob pipe connection.	
Mechanical design: separatio Montage Pipe ada Control e Scanning		init: with adaptors, init: iclosure and collection conta pipe: uch with material:	stainless steel 1 aluminium, optio iner: sheet steel, vari PE-EL Stainless steel 2	stainless steel 1.4301 (AISI 304), glass bead blasted aluminium, optional stainless steel 1.4301 (AISI 304), er: sheet steel, varnished, aluminium grey (RAL 9007) PE-EL Stainless steel 1.4301 (AISI 304) PE-EL Teflon EPDM		
	Compress	ed-air connection:	aluminium 5-8 bar, 6/8 mm	tube connection		
	Compress	ed-air consumption:	0.4 litre / switch operation, attached 100-240 VAC (+10%) 50/60 Hz			
Electrical design:	Control ur Operating	iit: voltage:				
	Current co	onsumption:	approx. 300 mA	/ 115 V, approx.150 mA / 230 V		
	Mains cab	le:	1.8 m with plug			
	Type of pr	otection:	IP 65			
	Self-monit	oring:	detection coil ar	ologio 60 sec		
	Scanning	sensitivity:	adjustable from	adjustable from 1% to 100%		
	Operation	:	see technical data sheet for control		unit MS+ Control	
Accessories						
□ Visual alarm		Filter control valve		Adaptor piece	s for material conveyor	
□ Failure indication		□ Counter (Detection	counter) in a	pipe, stainless	steel	
□ Failure and metal in	dication	separate housing	,	Level indicato	r for reject box for	
☐ Audible alarm		Push button for ma	nual rejection	waste materia	l	
Failure indication		in a separate housi	ng	PU spiral tube Internet for the second sec	DN 120 for reject out-	
□ Failure and metal ir	ndication	Push button for functional test in		clamping ring	with adaptor and	
Combination alarm (vis	sual alarm and			olamping mig		
 Failure indication Failure and metal i 	indication					
Options						
Compressed-air monit	or	Cable set for remot	e control unit:	□ US-power cab	ole (in exchange)	
□ Monitor system for sep	paration unit	3 m, 6 m, 10 m, 15	m	-		
Special versions	s / Suppler	nentary systems				
Special varnishes		Cvcle sluice with tw	o pivot flap valves	□ Model with im	proved wear protection	
□ Special supply voltage	s	DN 120 for continue	ous vacuum con-	in use range p	lastics	

- Adaptor pieces for material conveyor pipe on customer request □ Design for bulk material temperatures of up to 140° C when used for plastics
- ring and for continuo s or aiscon tinuous pressure conveying
- quipment version for higher conveyed material speeds

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□ Magnet systems for pre-removal of ferrous metals

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