



sartorius intec

A Minebea Group Company

The space-saving model Freefall Metal Detection System Vistus® with FL separator



Benefits

FL separator

- For maximum space-saving: the low installation height allows for especially short complete systems

Freefall Metal Detection System Vistus®

- Maximum detection sensitivity
- True In-Process Validation
- Quality pipes suitable for food products
- Efficient separation systems
- Minimal installation height
- Easy installation and operation



The innovative Freefall Metal Detection System Vistus®, in combination with the FL separator, provides reliable, space-saving detection of metal foreign bodies in the product flow.

Perfected for maximum safety



The Freefall System Vistus® offers maximum detection performance for your production lines. All **metal foreign bodies, including ferrous and non-ferrous metals and even non-magnetic stainless steels**, are consistently detected and separated from the production line.



With Vistus® you have the option to create a specially adapted metal detection system to suit your exact requirements, resulting in optimal detection effects for **dusty, free-flowing products and loose granules** at all times.



Maximum reliability: the **True In-Process Validation** option verifies the exceptional detection sensitivity of Vistus® in the centre of the pipe, i.e. the centre of your product flow.



When combined with the **space-saving FL separator**, Vistus® allows especially short complete systems to be created. By using the Vistus® RMFZ search coil, the low installation height can be reduced even further.

Ex Special version for category 3 (ATEX) environment condition with reduced metal-free zone for Vistus® with FL separator

Metal detector opening	12	17,2	21,6	26,9	34,1
-FL	10	15	20	25	30
ID	100	150	200	250	300
Di PP	90,0	141,8	177,2	230,6	290,6
Di ESD	97,4	141,8	177,2	221,6	279,2
T PP	10,0	9,1	11,4	9,7	12,2
T ESD	6,3	9,1	11,4	14,2	17,9
L1	624	785	1169	1472	1729
L2	407	500	798	985	1171
A	199	281	349	432	544
B	125	180	225	280	355
C	125	160	160	200	200
D	125	160	160	200	200
S	77	110	138	172	218

Ex Special version for category 3 (ATEX) environment condition with air cooling and/or shielding for Vistus® with FL separator

Metal detector opening	17,2	21,6	26,9	34,1
-FL	10	15	20	25
ID	100	150	200	250
Di PP	90,0	141,8	177,2	230,6
Di ESD	97,4	141,8	177,2	221,6
T PP	10,0	9,1	11,4	9,7
T ESD	6,3	9,1	11,4	14,2
L1	742	1093	1318	1594
L2	525	808	947	1107
A	355	395	482	545
B	250	260	310	320
C	160	160	200	200
D	160	160	200	200
S	138	173	215	273

Technical data for Vistus® with FL separator

Supply pressure	4.0 bar to 10.0 bar overpressure	
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]	
Operating pressure	Min. 4.5 bar to max. 6.0 bar overpressure	
Air consumption - Up to ID 200 - ID 250 and ID 300	Approx. 0.3 litres per separation Approx. 0.5 litres per separation	
Solenoid valve for compressed air connection	G 1/4" internal thread for plastic tube 10 mm, connection venting aperture M5	
Compressed air tank	G 1/2" with connection for plastic tube 14 mm (included in purchase price when purchasing complete system with separator)	
Pressure relief valve	Provided free of charge to protect your system	
Recommended on-site compressed air quality	Particulate matter class 4 Water class 2 Oil class 2	(Quality classes as per PNEUROP recommendation 6611)
Drop height	Max. distance to inlet flange for starting speed $v = 0$ m/s depending on the relevant inner diameter (ID) in mm (greater drop heights require larger installation dimensions)	
Solenoid valve - Supply voltage - Activation	5/2-way valve monostable Choice of 230 V _{AC} or 115 V _{AC} 50/60 Hz or 24 V _{DC} standard or 48 V _{DC} (please specify any deviations from the standard (24 V DC) upon order) via 'Metal' relay on evaluation electronics	
Protection class	IP65 (IP69K available upon request)	
Supply voltage	90 V to 260 V	
Explosion protection	Version approved for II 1/3D c T120° -5°C <- Ta <-+40°C	
User interface	145 mm (5.7") touchscreen Password-protected, user-specific access to dialogues that are organised and adapted by functional areas Automatic teach-in function	
Relay outputs	Total of 4 relays ---> relays 1, 3 and 4 freely programmable Relay 2 'Error': fixed assignment	
Relative air humidity	Operation: < 58% at +55°C Storage: < 30% at +70°C, 0% to 90% condensation-free	
Ambient temperature	Operation: -10°C to +55°C	
Product temperature	-30 to +55°C, up to +150°C with air cooling	
Data interfaces	TCP IP, RS232, RS422, CAN bus, fieldbus and Profibus	
Network connection	Ethernet	
Options	Ext. acknowledge button, login using fingerprint sensor, remote control, end position monitoring, USB printing and much more	

This technical data serves only as a product description and should not be interpreted as a legally binding quality guarantee.

We reserve the right to make technical modifications
Publication No: AA-2016-e15101
Order No: 9498 710 00161
Date 12/2015

Sartorius Mechatronics C&T GmbH & Co. KG
Am Gut Wolf 11
52070 Aachen, Germany
Phone +49.241.1827.0
Fax +49.241.1827.213
sales.ac@sartorius-intec.com
www.sartorius-intec.com