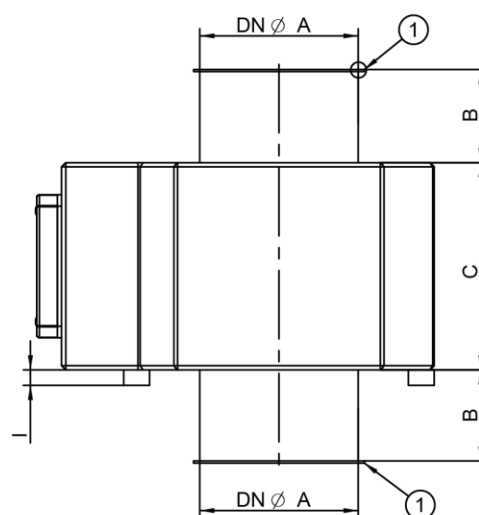
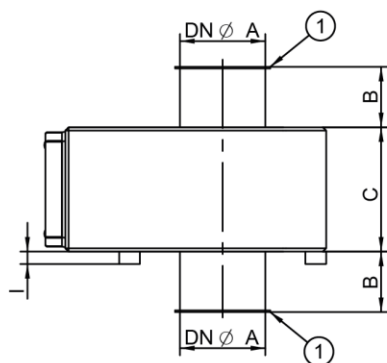
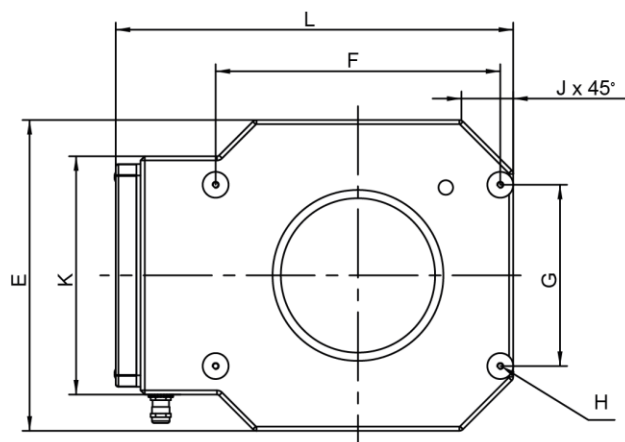
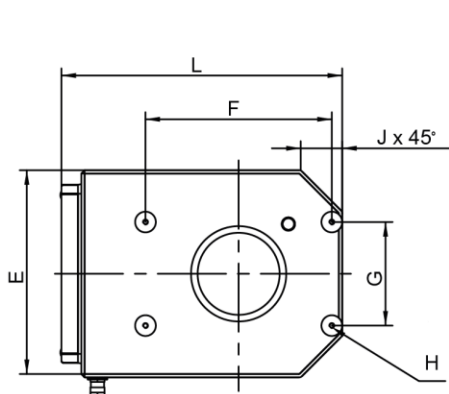


Dimensions



DN 50 – DN 120

DN 150 – DN 300

- 1 Pipe connection: Smooth pipe socket for DN 50
 Jacob system > DN 50

ØA	B	C	E	F	G	H	I	J	K	L	Weight [kg]*
50	50	150	230	175	115	M6	15	45	230	274	24
60	42	150	230	175	115	M6	15	45	230	274	25
80	42	150	230	175	115	M6	15	45	230	289	25
100	73	150	250	225	125	M6	15	50	250	339	30
120	80	150	250	225	125	M6	15	50	250	339	33
150	90	200	300	275	175	M6	15	50	230	384	38
200	100	250	365	310	170	M8	30	88	230	451	50
250	125	300	450	400	200	M8	30	115	230	534	55
300	150	350	550	500	205	M8	30	160	230	644	60

All dimensions in [mm]

* Weight without packaging, including standard equipment

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Product description

The **METRON PW** is a highly sensitive free-fall metal detector for bulk materials. It is used when metal contaminants need to be reliably detected but not automatically discharged – for example for **quality control, process monitoring or machine protection**. The detector detects all types of metal, whether loose or as inclusions, and thus supports safe and efficient production.

Areas of application

The METRON PW is suitable for applications in the **food** and **industrial** sectors.

Food

Suitable for applications in the food industry.

Industrial

For applications in the plastics, chemical and recycling industries, as well as in other industrial sectors with comparable products and requirements.

Bulk material classification

Product shape	Powder, fine-grained bulk materials, granulate, flakes, etc.
Grain size max. in mm	Depending on the nominal width
Properties of the bulk material	Dry, moist, non-abrasive, possible product effect
Flowability	Good, medium, bad
Type of material flow	- Free-fall application - Vertical installation - Pneumatic conveying lines - Vertical and horizontal installation
Max. permissible pressure in the conveying line	max. +/- 0.5 bar (relative pressure)

Typical throughput

NWø [mm]	50	60	80	100	120	150	200	250	300
DL [l/h]*	5.000	7.000	13.000	20.000	29.000	46.000	82.000	128.000	185.000

* The throughput capacity (DL) was determined on the basis of free-flowing granulate at a pipe filling level of 30 %; the figures refer to continuous conveying. Deviations occur depending on the particle shape and flow properties.

Ambient conditions

Installation type	Vertical and horizontal installation
Product temperature	+ 80°C
Ambient temperature	- 10°C to +50°C
Storage / transport conditions	-10°C to +60°C
Relative humidity	0% to 95% (without condensation)

Equipment & specifications

Electronics version	AMD 05 / AMD 07
Operator interface	AMD 05: Graphic display with membrane keypad, keypad AMD 07: 5.7" Touch display
Operating unit - Assembly type	separated (2m)
Detector coil	Stainless steel 1.4301 (AISI 304)
Electronics housing	Stainless steel 1.4301 (AISI 304)
Protection class of overall device	IP 66
Parts in contact with the product	Stainless steel 1.4301 (AISI 304), sandblasted Sensing tube shaft: PE-EL (polyethylene) – FDA-compliant
Device connection	- Inlet: Stainless steel 1.4301 (AISI 304) - Jacob pipe system - Outlet: Stainless steel 1.4301 (AISI 304) - Jacob pipe system

Detection accuracy

NWØ	FE Ø	Non-FE Ø	1.4031 (AISI 304) Ø
50	0,40	0,40	0,60
60	0,40	0,50	0,80
80	0,50	0,50	0,80
100	0,60	0,60	1,00
120	0,70	0,80	1,20
150	0,80	0,80	1,20
200	1,00	1,00	1,50
250	1,20	1,20	1,75
300	1,50	1,75	2,00

All dimensions in [mm]

The specified sensitivities (ball Ø in mm) are based on factory settings and were determined under simulated production conditions in the centre of the passage opening. They refer to typical products according to the bulk materials classification and serve as a guide. The actual detection performance depends on the selected frequency as well as on product properties such as shape, conductivity and flow properties. An individual assessment is required for deviating product or process conditions.

Standard scope of delivery

Metal separator and evaluation electronics

Operating instructions with spare parts list and electronic connection diagram

EU Declaration of Conformity:

- 2014/35/EU (Low Voltage Directive)
- 2014/30/EU (EMC Directive)
- 2011/65/EU (RoHS Directive)
- Delegated directive (EU) 2015/863 (extension of the RoHS Directive)

Versions

- ATEX (dust): Zone 20 | 21 | 22 (indoor), Zone 21 | 22 (outdoor)
- Increased protection class IP69K

Conformity

Optionally available:

- Regulation (EC) No. 1935/2004 + FDA (Food and Drug Administration)
- NRTL certification (61010-1)
- IEC certification (61010-1)
- Test piece certificate

Options

Optionally available for AMD 7.2:

- autoTEST system E (electrical)
- autoTEST system P (pneumatic)

Accessories

- Test piece (FE Ø, non-FE Ø, V2A Ø)
- mesuINSERT (test piece insertion station)
- Signal combination for error status warning
- mesuEXPORT (automatic protocol export)
- mesuREMOTE (remote maintenance kit)
- mesuLINK (networking software)

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Note:

If you require further product information that goes beyond the content of this technical data sheet and in particular concerns a specific use and the application of this product, please contact us.

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