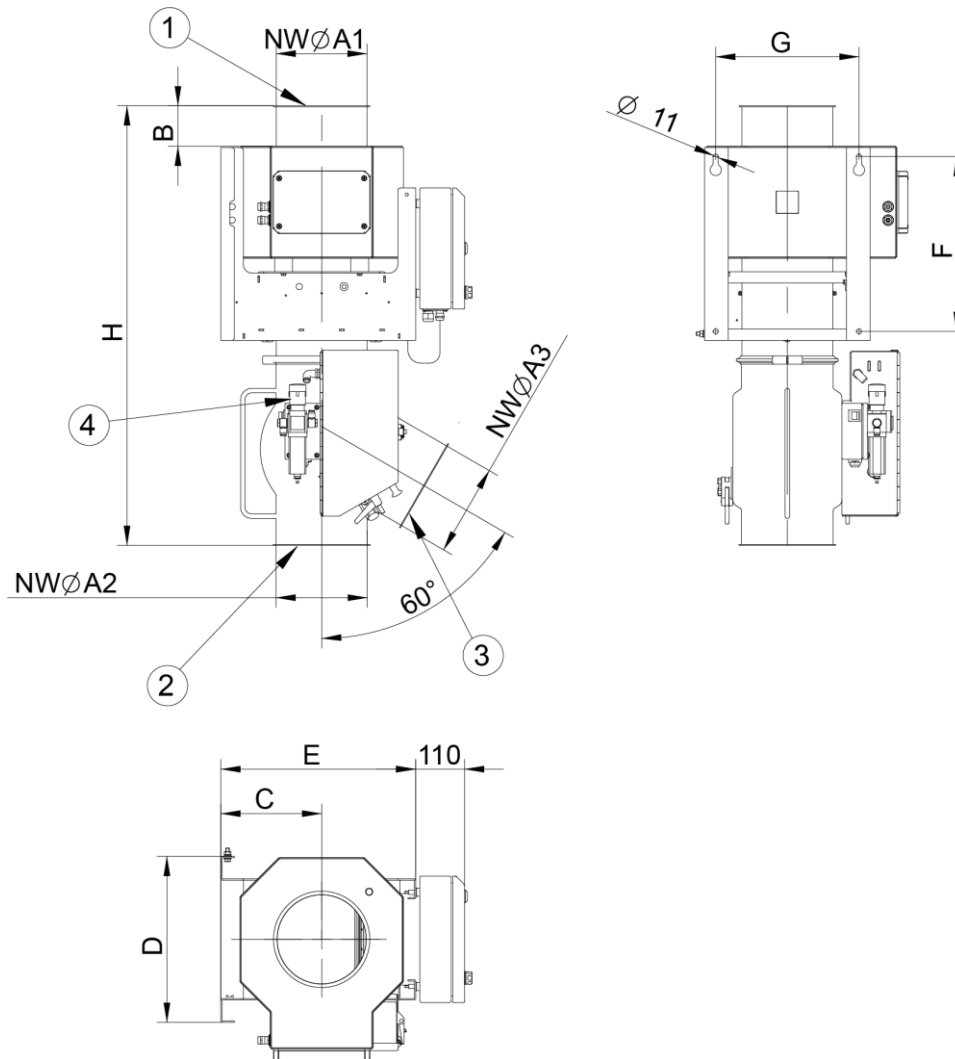


Dimensions NWØ50 – NWØ200



- 1 Goods infeed: Jacob system $\geq$ NW 80
Smooth pipe socket < NW 80
- 2 Goods outlet: Jacob system
- 3 Rejects outlet: Jacob system

- 4 Compressed air connection including advanced system monitoring for compressed air and separator flap

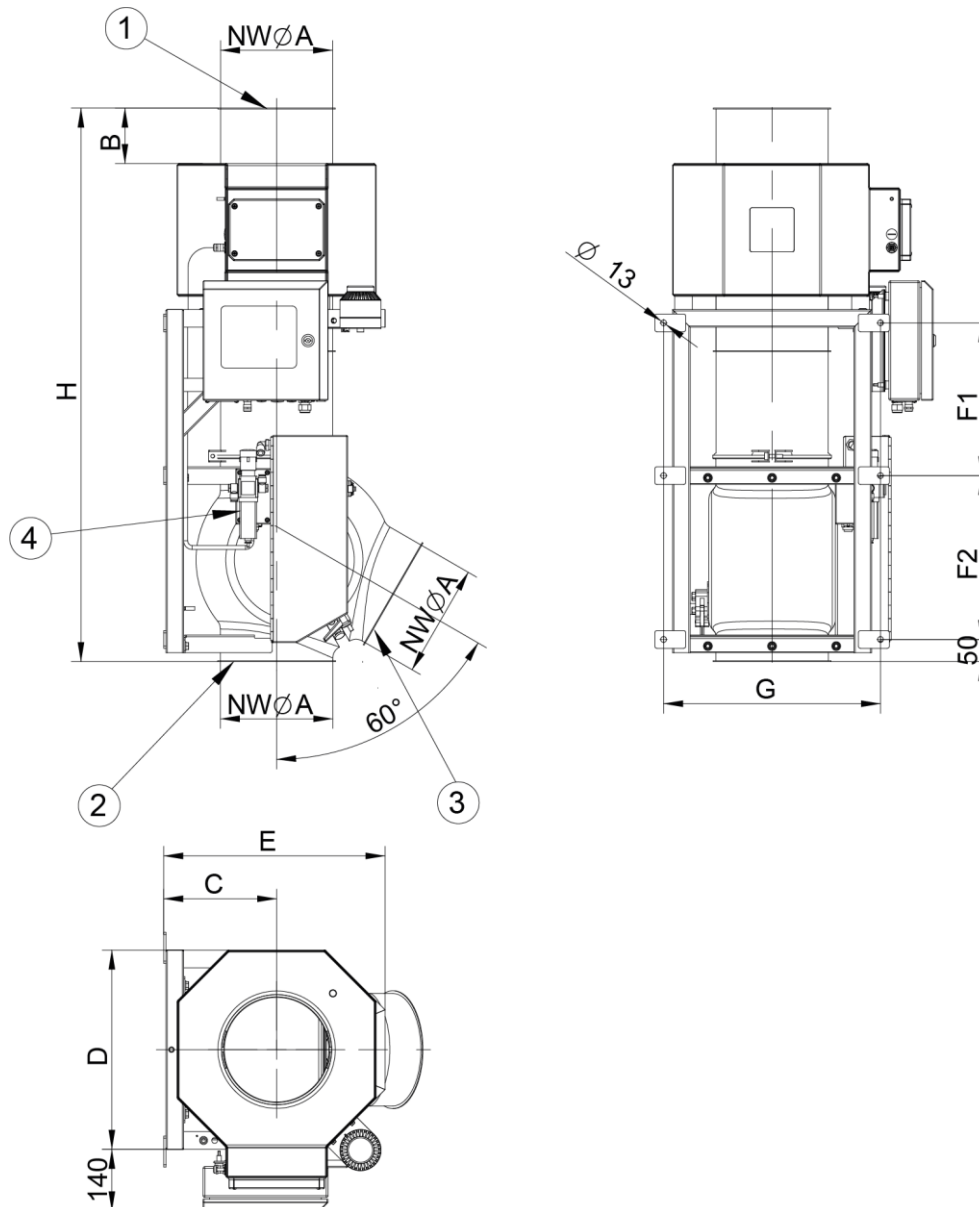
$\varnothing A1$	$\varnothing A2 / A3$	B	C	D	E	F	G	H	Weight [kg]*
50	100	50	190	280	350	220	230	610	40
60	100	50	190	280	350	220	230	610	40
80	100	42	190	280	350	220	230	600	40
100	100	73	190	280	350	220	230	680	40
120	120	80	190	280	350	220	230	700	48
150	150	80	190	360	385	290	300	825	65
200	200	90	225	370	435	380	320	980	95

All dimensions in [mm]

* Weight without packaging, including standard equipment

Note: The area around the metal detector, the metal-free zone (MFZ), must be free of any metallic components. Detailed information can be found in the operating instructions under the chapter "Assembly guidelines".

Dimensions NWØ250 – NWØ300



- 1 Goods infeed: Jacob system
- 2 Goods outlet: Jacob system
- 3 Rejects outlet: Jacob system

- 4 Compressed air connection including advanced system monitoring for compressed air and separator flap

Ø A	B	C	D	E	F1	F2	G	H	Weight [kg]*
250	125	255	450	500	345	370	490	1250	180
300	150	310	550	585	495	495	610	1600	210

All dimensions in [mm]

* Weight without packaging, including standard equipment

Note: The area around the metal detector, the metal-free zone (MFZ), must be free of any metallic components. Detailed information can be found in the operating instructions under the chapter "Assembly guidelines".

Product description

The QUICKTRON RH is a highly sensitive metal separator for bulk materials in free fall.

It is used for quality control and to protect machines such as mills, kneading machines, packaging systems or big bag filling stations. The separator reliably detects and removes all types of metal – both loose and as inclusions in the material – and thus ensures smooth processes and maximum process reliability. The device fulfils the highest hygiene requirements and is therefore particularly suitable for sensitive applications in the food and pharmaceutical sectors.

Areas of application

The QUICKTRON RH is suitable for **food** and **non-food** applications.

Food

For free-fall applications in the food industry, e.g. powders such as flour, milk powder, ground spices, oat flakes, semolina and grains

Non-food

For applications in the plastics, recycling and wood industries, e.g. granulate, ground materials and powders, as well as in other industrial sectors with comparable products and requirements.

Hygienic requirement

Suitable for stringent requirements

Bulk material classification

Product shape

Powders, ground bulk materials, grains, granulate, ground materials

Grain size

max. ≤10 mm - *Different specifications on request*

Properties of the bulk material

Dry, product-specific effects can be compensated for
- *Different specifications on request*

Flowability

Good, medium

Type of material flow

Unpressurised free-fall conveying

Typical throughput

NWØ [mm]	50	60	80	100	120	150	200	250	300
DL [l/h]*	6,600	9,500	16,900	26,500	38,200	59,700	106,200	165,900	238,900

* The throughput capacity (DL) was determined on the basis of free-flowing granulate at a pipe filling level of 30 % and a free-fall height of 0.5 m. The data refer to continuous conveying. Deviations occur depending on the particle shape and flow properties.

Ambient conditions

Free-fall height

Up to 500 mm above top edge of device – *Different specifications on request*

Installation type

Vertical installation

Product temperature

+ 50°C

Ambient temperature

- 5°C to +40°C

Storage / transport conditions

-10°C to +60°C

Relative humidity

0% to 95% (without condensation)

Equipment & specifications

Electronics version	AMD 05 / AMD 07 (see <i>technical data sheet for electronics</i>)
Operator interface	AMD 05: Graphic display with membrane keypad, keypad AMD 07: 5.7" Touch display
Operating unit - Assembly type	Built-in
Detector coil	Stainless steel AISI 304
Protection class of overall device	IP 66
Parts in contact with the product	Stainless steel AISI 304, sandblasted Separation flap: Stainless steel AISI 316L Sensing tube material: PE-EL (polyethylene, electrically conductive) Flap seal: Light-coloured EPDM (ethylene propylene diene rubber)
Compressed air connection	Compressed air supply: min. 6 bar - max. 10 bar Compressed air maintenance unit incl. hose with plug nipple (7.2 mm)
Noise level	Max. 95 dB (A) during switching operation
Advanced system monitoring	Compressed air and separation mechanism
Device connection	Goods infeed: Jacob system $\geq$ NW 80, smooth pipe socket < NW 80 Goods and rejects outlet: Jacob system <i>-Different specifications on request-</i>

Detection accuracy

NWØ	FE Ø	Non-FE Ø	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	1.50	1.75	1.75
300	1.75	2.25	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 (metal detector, separation mechanism and evaluation electronics)

Operating instructions with spare parts list and electronic connection diagram

EU Declaration of Conformity:

- 2006/42/EC (Machinery 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)

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

- Surface roughness RA 0.8µm to NWØ250 – in contact with the product
- Blow-out wedge for products with limited flowability
- Separate operating unit and detector head (2m)
- Parts in contact with the product in AISI 316L

Optionally available for AMD 07:

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

Accessories

- | | |
|--|---------------------------------------|
| ○ Test piece (FE Ø, Non-FE Ø, AISI 304 Ø) | ○ mesuREMOTE (remote maintenance kit) |
| ○ mesuINSERT (test piece insertion station + collection station) | ○ mesuLINK (networking software) |
| ○ Test button (mounted on the electronics housing) | ○ Clamping rings |
| ○ Signal combination for error status warning | ○ WLAN module |
| ○ mesuEXPORT (automatic protocol export) | |

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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.