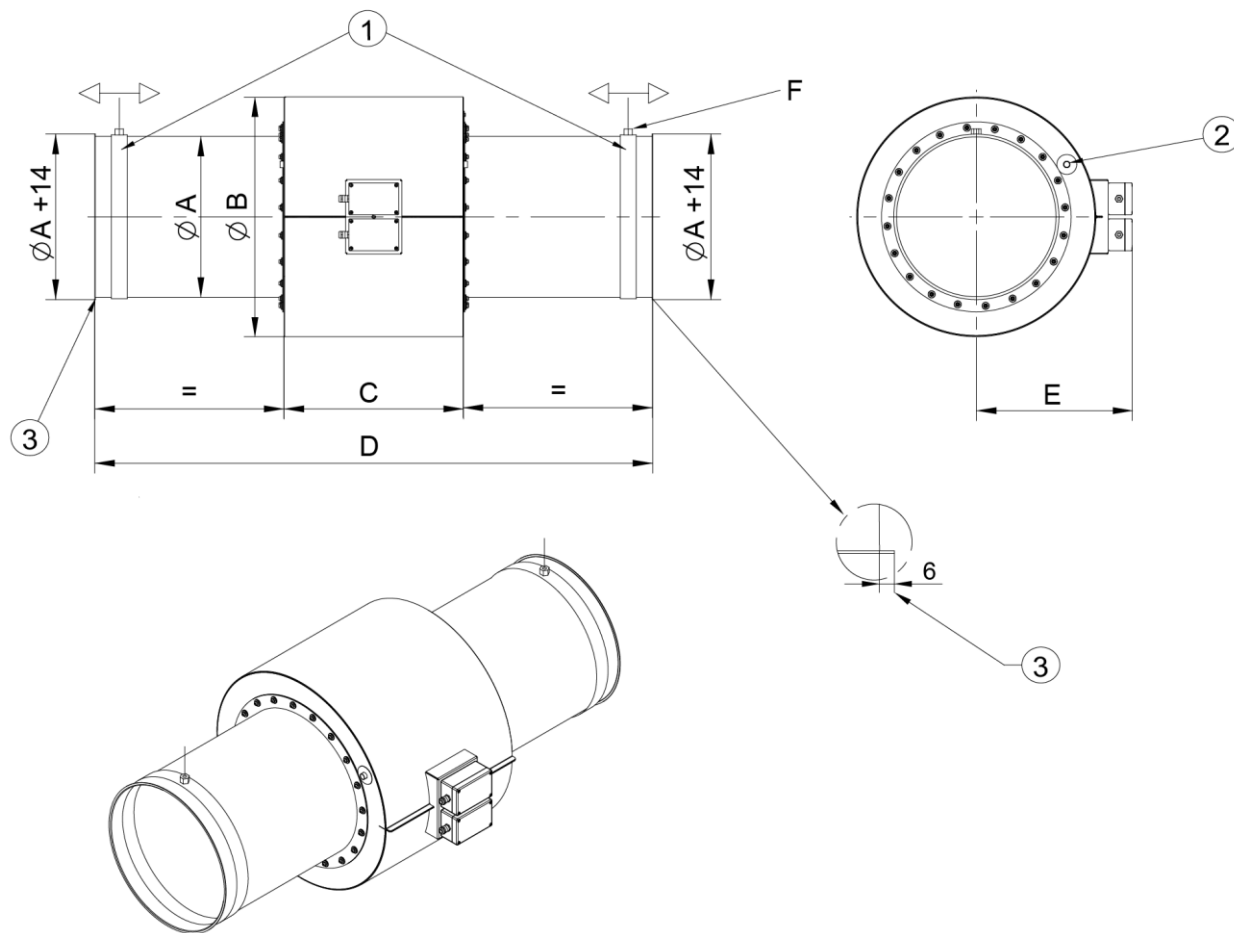


Dimensions – Horizontal version



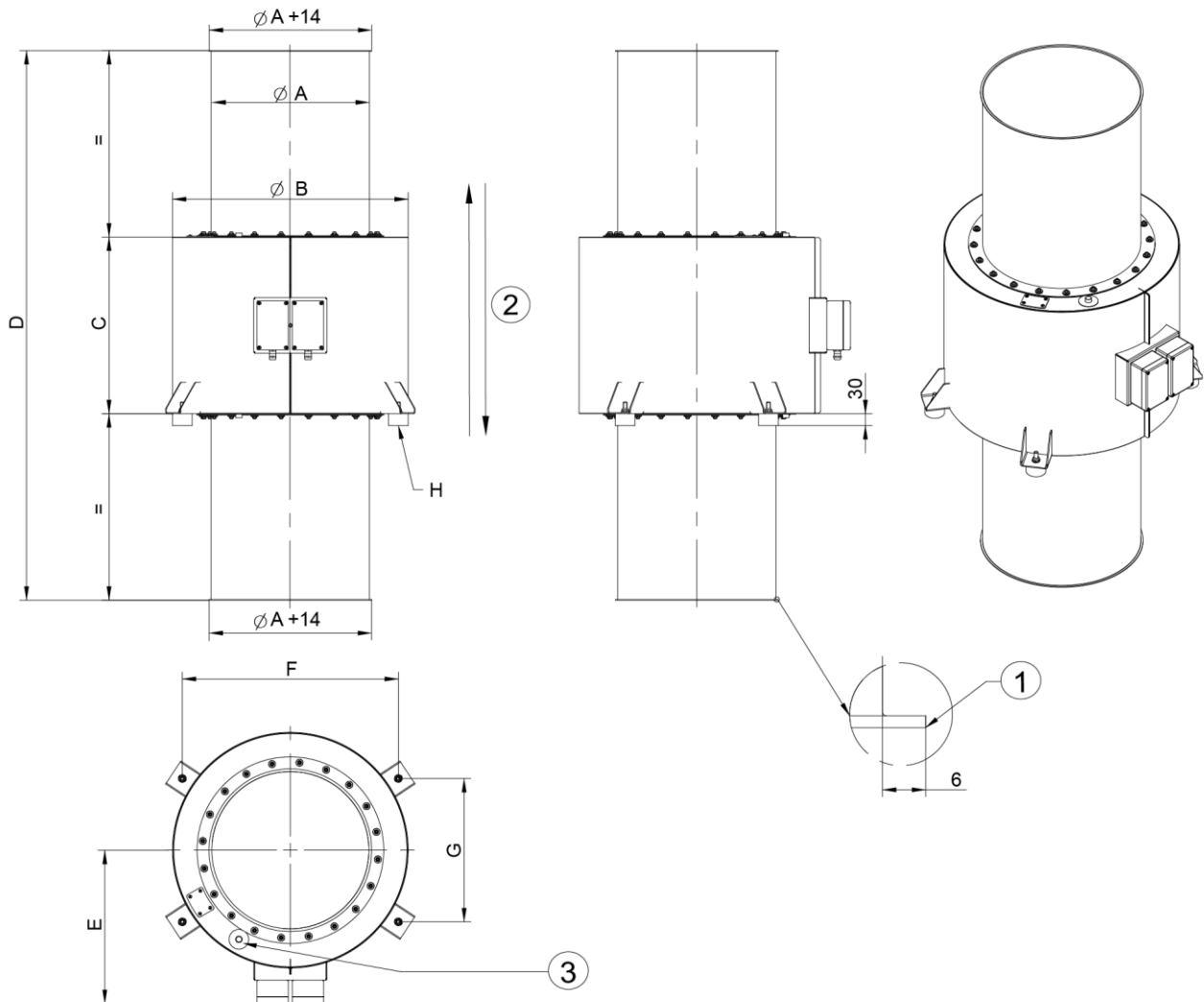
1. Coil fastening (only mount on the sliding, insulated clamps)
2. Detector test opening (Ø 13 mm)
3. Jacob system

ØA	B	C	D	E	F	Weight [kg]*
250	450	350	1400	311	M8	40
300	500	400	1400	340	M8	45
350	550	400	1400	365	M8	55
400	600	450	1400	391	M8	75
500	700	550	1400	443	M8	100
630	850	700	2200	520	M10	150

All dimensions in [mm]

* Weight without packaging, including standard equipment

Dimensions – Vertical version



1. Jacob system
2. Conveying direction
3. Detector test opening (Ø 13 mm)

ØA	B	C	D	E	F	G	H	Weight [kg]*
250	450	350	1400	311	405	310	M10-8 deep	40
300	500	420	1400	340	437	350	M10-8 deep	45
350	550	400	1400	365	500	350	M10-8 deep	55
400	600	450	1400	391	550	365	M10-8 deep	75
500	700	550	1400	443	650	395	M10-8 deep	100
630	850	700	2200	520	762	500	M10-8 deep	150

All dimensions in [mm]

* Weight without packaging, including standard equipment

Product description

POWERLINE TEXTIL is a metal detector developed for pneumatic fibre transport lines, which is integrated directly into the line system without sensing tube. Thanks to its closed design, the system is extremely resistant to interference, as no external influences impair the detection performance. The integrated coil reliably detects metallic foreign bodies in the passing fibre flow and thus prevents damage to sensitive machines.

The metal detector is ideal for textile production processes in which high operational reliability, process stability and continuous monitoring are essential – and is also suitable for comparable industries or applications in which pneumatic material conveying needs to be monitored.

Areas of application

POWERLINE TEXTIL is designed for applications in the **industrial** sector.

Industrial	For applications in the textile industry or other industrial sectors with similar applications.
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Bulk material classification

Product shape	Fibres, scraps of film
Properties of the bulk material	Dry, a product evaluation is required for abrasive products
Flowability	Good
Type of material flow	- Discontinuous or continuous (air conveying) - Vacuum or pressure conveying (air conveying)

Ambient conditions

Max. conveying speeds	10 m/s to 30 m/s
Installation type	Horizontal installation (Version-H): left/right right/left Vertical installation (Version-V): bottom/top top/bottom
Product temperature	Max. +50°C
Ambient temperature	-5°C to +50°C
Storage / transport conditions	-10°C to +60°C
Relative humidity	0% to 95% (without condensation)
Permissible pressure in the conveying line	Max. +/- 0.5 bar (relative pressure)

Equipment & specifications

Electronics version	AMD 05
Operator interface	Graphic display with membrane keypad, keypad
Operating unit - Assembly type	separated (7m) – <i>different specifications on request</i>
Assembly type	Mounting clamps (horizontal), screwed tight (vertical)
Pipe connection	Stainless steel 1.4301 (AISI 304) - Jacob pipe system
Detector coil	Stainless steel 1.4301 (AISI 304)
Electronics housing	Painted steel (S235)
Protection class of overall device	IP 54
Parts in contact with the product	Stainless steel 1.4301 (AISI 304) NW Ø 250 – NW Ø 630: PE (polyethylene)

Detection accuracy

NW Ø	FE Ø	Non-FE Ø	1.4031 (AISI 304) Ø
250	2.5	2.5	3.0
300	3.0	3.5	4.0
350	3.2	3.5	4.5
400	3.5	4.0	5.56
500	4.5	5.0	6.5
630	5.0	9.0	8.0

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 detector, 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)

Accessories

- Signal combination for error status warning
- mesuEXPORT (automatic protocol export)
- mesuREMOTE (remote maintenance kit)
- mesuLINK (networking software)
- Automatic separation system: "High Speed TEXREJECT" fast-switching flap

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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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