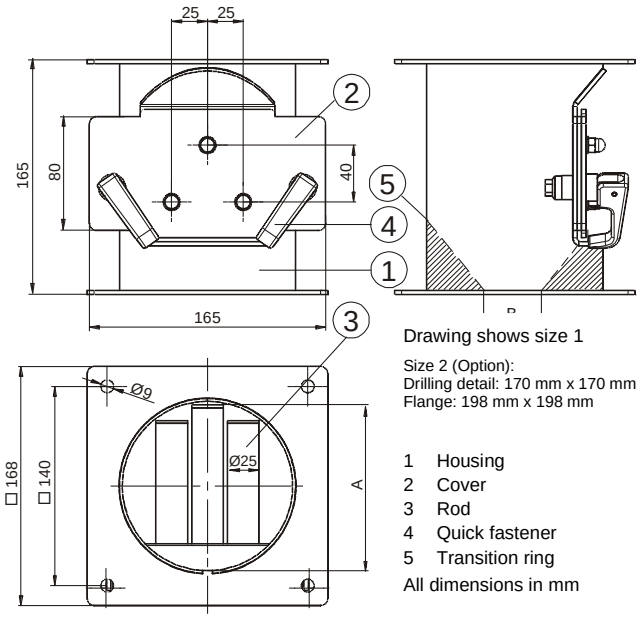
Magnetic Separator EXTRACTOR ER

■ Dimensions EXTRACTOR ER-SE (flat flange at the inlet and outlet)

EXTRACTOR ER-SE 40-120



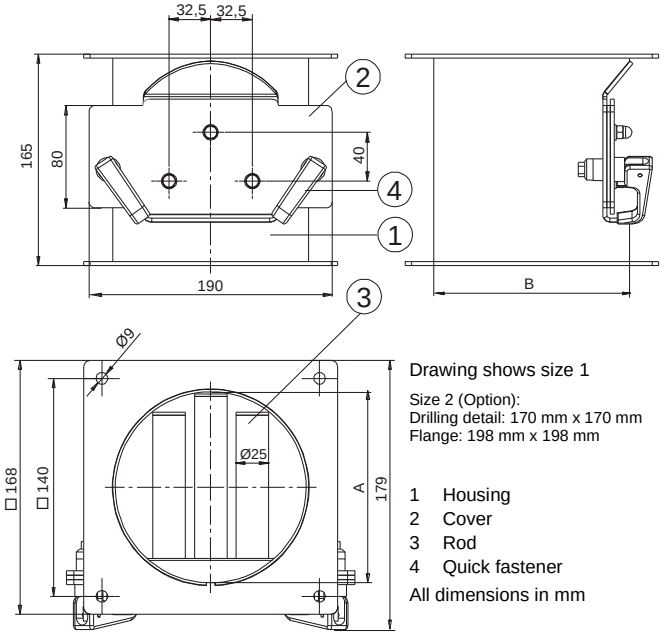
Drawing shows size 1

Size 2 (Option):
Drilling detail: 170 mm x 170 mm
Flange: 198 mm x 198 mm

1 Housing
2 Cover
3 Rod
4 Quick fastener
5 Transition ring

All dimensions in mm

EXTRACTOR ER-SE 150



Drawing shows size 1

Size 2 (Option):
Drilling detail: 170 mm x 170 mm
Flange: 198 mm x 198 mm

1 Housing
2 Cover
3 Rod
4 Quick fastener

All dimensions in mm

■ Technical data EXTRACTOR ER-SE

	mT [1]	Version	Type [4]	Outlet diameter B								
Neodymium N35	800	Size 1	ER-SE-	40	50	60	70	80	90	100	120	150
Inlet diameter A				120	120	120	120	120	120	120	120	150
No. of rods				3	3	3	3	3	3	3	3	3
Throughput [2] [l/h]				1200	2600	7100	8050	9000	9150	9300	9300	17000
Throughput [3] [l/h]				850	1800	6000	6100	6200	6300	6400	6700	11500
With PP transition ring				✓	✓	✓	✓	✓	✓	✓	---	---
Weight [kg] [5]				3.25	3.20	3.20	3.20	3.125	3.100	3.075	3.00	4.00

All dimensions in mm

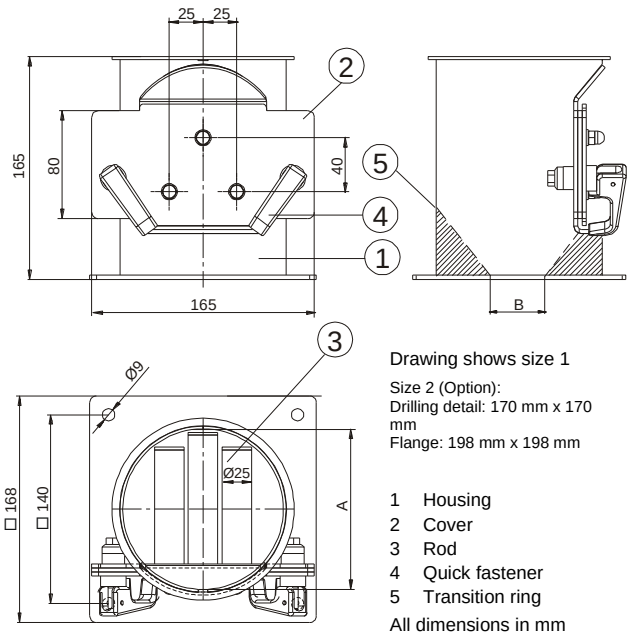
[1] Millitesla: readings taken from outer tube surface: -5%; "1 gauss = 10^{-4} Tesla"
[2] Virgin material, good free flowing, material column with 500mm free fall height
[3] Regrind material, not good free flowing, material column with 500mm free fall height
[4] Type designation: combination of "Type" and "Outlet diameter" (i.e. ER-SE-40)
[5] Guide value, the actual weight may be different depending on options an configurations.

Sesotec GmbH • Regener Str. 130 • D-94513 Schönberg • Germany
Tel. +49(0)8554/308-0 • Fax: +49(0)8554/2606 • e-mail: info@sesotec.com • Internet: www.sesotec.com

Magnetic Separator EXTRACTOR ER

■ Dimensions EXTRACTOR ER-K (Jacob connection at the inlet, flat flange at the outlet)

EXTRACTOR ER-K 40-120



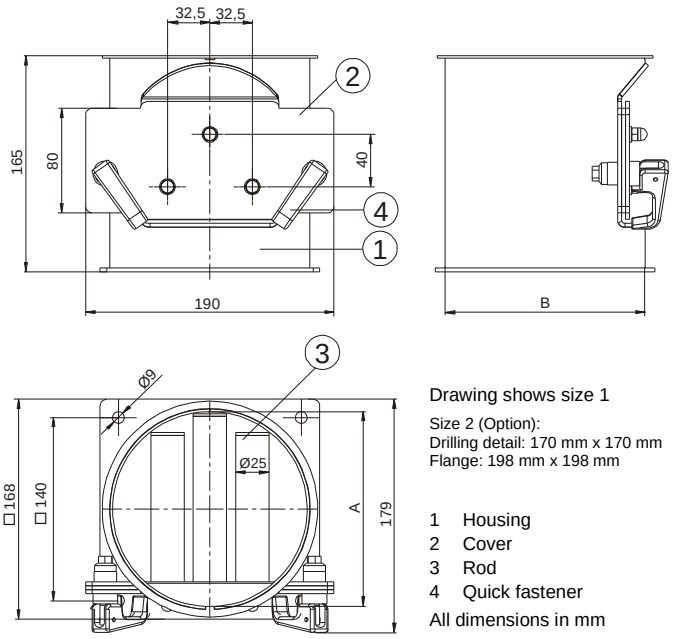
Drawing shows size 1

Size 2 (Option):
Drilling detail: 170 mm x 170 mm
Flange: 198 mm x 198 mm

1 Housing
2 Cover
3 Rod
4 Quick fastener
5 Transition ring

All dimensions in mm

EXTRACTOR ER-K 150



Drawing shows size 1

Size 2 (Option):
Drilling detail: 170 mm x 170 mm
Flange: 198 mm x 198 mm

1 Housing
2 Cover
3 Rod
4 Quick fastener

All dimensions in mm

■ Technical data EXTRACTOR ER-K

	mT [1]	Version	Type [4]	Outlet diameter B							
Neodymium N35	800	Size 1	ER-K-	40	50	60	70	80	100	120	150
Inlet diameter A				120	120	120	120	120	120	120	150
No. of rods				3	3	3	3	3	3	3	3
Throughput [2] [l/h]				1200	2600	7100	8050	9000	9300	9300	17000
Throughput [3] [l/h]				850	1800	6000	6100	6200	6400	6700	11500
With PP transition ring				✓	✓	✓	✓	✓	✓	---	---
Weight [kg] [5]				3.15	3.10	3.10	3.10	3.00	2.90	2.90	3.80

All dimensions in mm

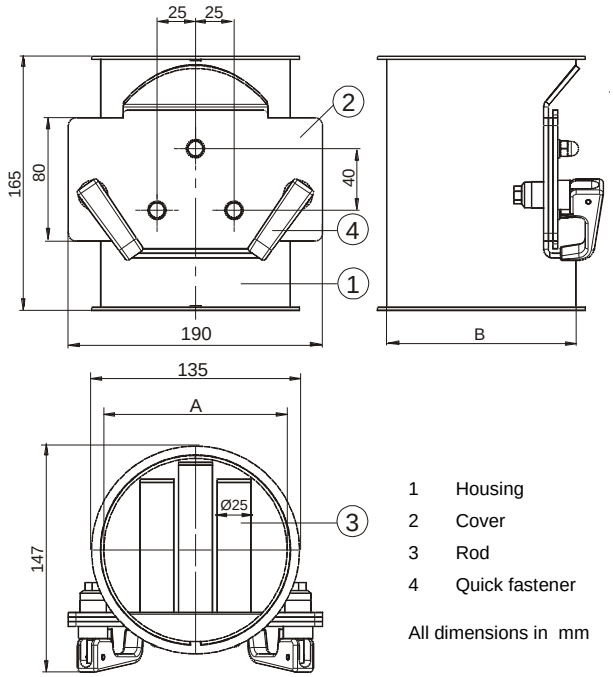
[1] Millitesla: readings taken from outer tube surface: -5%; "1 gauss = 10^{-4} Tesla"
[2] Virgin material, good free flowing, material column with 500mm free fall height
[3] Regrind material, not good free flowing, material column with 500mm free fall height
[4] Type designation: combination of "Type" and "Outlet diameter" (i.e. ER-K-40)
[5] Guide value, the actual weight may be different depending on options an configurations.

Sesotec GmbH • Regener Str. 130 • D-94513 Schönberg • Germany
Tel. +49(0)8554/308-0 • Fax: +49(0)8554/2606 • e-mail: info@sesotec.com • Internet: www.sesotec.com

Magnetic Separator EXTRACTOR ER

■ Dimensions EXTRACTOR ER-J (‚Jacob' connection)

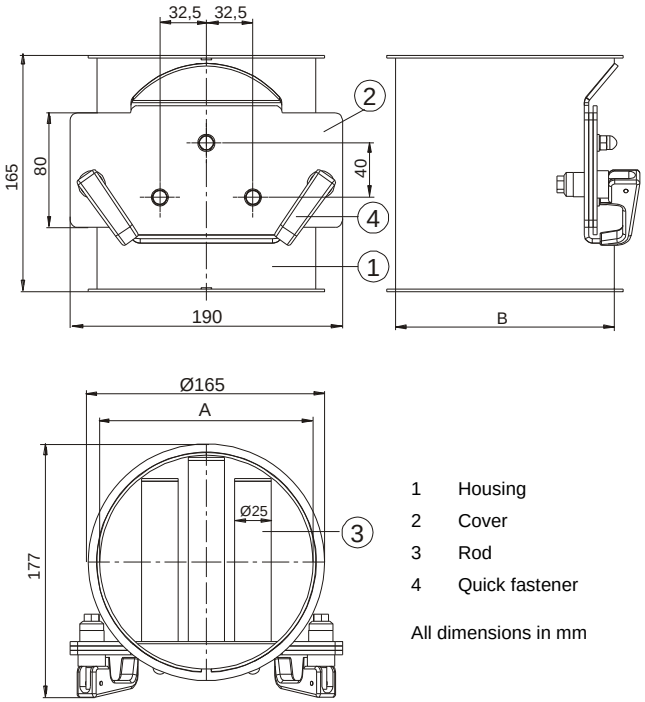
EXTRACTOR ER-J 120



1 Housing
2 Cover
3 Rod
4 Quick fastener

All dimensions in mm

EXTRACTOR ER-J 150



1 Housing
2 Cover
3 Rod
4 Quick fastener

All dimensions in mm

■ Technical data EXTRACTOR ER-J

	mT [1]	Type [3]	Outlet diameter B	
Neodymium N35	800	ER-J-	120	150
Inlet diameter A			120	150
No. of rods			3	3
Throughput [2] [l/h]			11000	17000
Weight [kg] [4]			3.00	4.00

All dimensions in mm

[1] Millitesla: readings taken from outer tube surface: -5%; "1 gauss = 10^{-4} Tesla"
[2] Depending on size and free flow characteristics of material
[3] Type designation: combination of "Type" and "Outlet diameter" (i.e. ER-J-120)
[4] Guide value, the actual weight may be different depending on options an configurations.

Sesotec GmbH • Regener Str. 130 • D-94513 Schönberg • Germany
Tel. +49(0)8554/308-0 • Fax: +49(0)8554/2606 • e-mail: info@sesotec.com • Internet: www.sesotec.com

Magnetic Separator EXTRACTOR ER

■ Conditions of use

Use ER-SE:	At the inlet of injection moulding machines, extruders and blow moulding machines.
Use ER-K:	As a combination system together with metal separators type Rapid Vario.
Use ER-J:	In ‚Jacob' pipelines as well as after cyclones.
Bulk material characteristics:	Dry, good free flowing characteristics, without long fibres, grain size 8 mm (for cubed product), 10 mm (for flaked product)
Drop height of bulk material:	<500 mm above equipment top edge
Material flow:	Slow flowing bulk material; or short free fall application (for starve-fed extruders or for combination installation together with metal separator Rapid Vario)
Bulk material temperature:	Max. +80°C (for higher temperatures please see special versions)
Ambient temperature:	-20° to +60°C

■ Scope of delivery / Standard design

Scope of delivery:	High intensity rare earth magnetic system in a wear resistant housing
Housing material:	Stainless steel 1.4301 (AISI 304), top load: 500 kg, side load: 500N
Tube material:	Stainless steel 1.4301 (AISI 304)
Surface treatment:	Housing: glass bead blasted; tube: polished
Connection ER-SE:	Drilling detail 140 x 140 mm; Ø9 mm (size 1)
Connection ER-K:	Inlet: ‚Jacob' connection; outlet: drilling detail 140 x 140 mm; ∅9 mm (size 1)
Connection ER-J:	‚Jacob' connection

Magnetic material:	Manufactured by using high intensity rare earth neodymium magnet material N35
Magnet characteristics:	Remanence Br: 1200 mT (max. 800 mT on the tube surface)
Cleaning:	EASY CLEAN facility: cleaning takes place by removing the magnets from the housing and pulling off the tubes from the magnetic cores → all attracted contaminants fall off the tubes and can be collected for analysis

■ Options

- ☐ Design for bulk material temperatures up to max. 160° C (for NW40 up to NW100 please note: only in combination with PTFE-transition ring)
- ☐ Design for bulk material temperatures up to max. 350° C (for NW40 up to NW100 please note: only in combination with stainless steel transition ring)
- ☐ Centering ring
  - ☐ PTFE for bulk material temperatures up to max. 160° C (only in combination with NW40 up to NW100)
  - ☐ Stainless steel for bulk material temperatures up to max. 350° C (only in combination with NW40 up to NW100)
- ☐ Slide gate at the inlet (only in combination with ER-SE)
- ☐ Reinforced housing design for absorbing vertical loads up to max. 1500 kg
- ☐ Sight glass – mounted on the housing side (not in combination with design for bulk material temperatures up to max. 160° C or 350° C.
- ☐ Adapter plates
  - ☐ Please refer to the adapter plates data sheet

■ Accessories

- ☐ Blind cover for operation without magnetic drawer
- ☐ Gaussmeter GMET-H001 (incl. hall probe and attachment to measure magnetic rods)

Sesotec GmbH • Regener Str. 130 • D-94513 Schönberg • Germany
Tel. +49(0)8554/308-0 • Fax: +49(0)8554/2606 • e-mail: info@sesotec.com • Internet: www.sesotec.com