# RBG 1000 GD

The RBG 1000 G has a higher gear ratio. This means that at very low feed rates (< 10 mm/h) the feed rate can be better adjusted by means of a potentiometer. Optional operation with low pressure from 300 mbar absolute is possible.The feedstock reservoirs with a diameter of 7, 10, 14, or 20 mm are pressure-resistant.For operation with low pressure, special pressure-resistant feedstock reservoirs are needed. Their piston is strongly connected to the feeding unit by a claw. This enables an undisturbed operation with low pressure.The feedstock reservoir with a diameter of 28 mm is not pressure-resistant but can be used with the RBG 1000 ID under atmospheric conditions.

In the RBG 1000 D pressure-resistant version, compressed air is used as the disgerger gas. Operation with nitrogen or other inert gases is not permitted.

## OPERATION PRINCIPLE

## Benefits

- Pressure-resistant up to 3 barg overpressure
- Very low feed rates (< 10 mm/h) can be set precisely with the aid of a potentiometer
- Optional: Remote control or computer-controlled

# DATASHEET

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| Particle size range | 0.1 – 100 $\mu$m |
| Maximum particle number concentration | Ca. $10^7$ particles/$cm^3$ |
| Volume flow | 0.5 – 5.0 $m^3$/h |
| Mass flow (particles) | 0.04 – 185 g/h (with an assumed compacted density of 1 g/$cm^3$) |
| Filling height | 70 mm |
| Filling quantity | 2.7 g (reservoir Ø = 7 mm), 5.5 g (reservoir Ø = 10 mm), 10.8 g (reservoir Ø = 14 mm), 22 g (reservoir Ø = 20 mm), 43 g (reservoir Ø = 28 mm) |
| Power supply | 115 – 230 V, 50/60 Hz |
| Particle material | Non-cohesive powders and bulks |
| Dosing time | Several hours nonstop |
| Pre-pressure | 4 – 8 bar |
| Carrier/dispersion gas | Random (generally air) |
| Maximum counter pressure | 0.2 barg |
| Compressed air connection | Quick coupling |
| Feed rate | 1 – 300 mm/h |
| Reservoir inner diameter | 7, 10, 14, 20, 28 mm |
| Aerosol outlet connection | Dispersion cover type A: $Ø_{inside}$= 5 mm, $Ø_{outside}$ = 8 mmDispersion cover type B: $Ø_{inside}$= 3.6 mm, $Ø_{outside}$ = 6 mmDispersion cover type: $Ø_{inside}$= 2.5 mm, $Ø_{outside}$ = 6 mm |
| Dispersion lid | Type A, type B, type C, type D |
| Dimensions | 465 • 320 • 200 mm (H • W • D) |
| Weight | Approx. 19 kg |

## Applications

- All applications pressure-resistant up to 3 barg overpressure
- Applications with very low feed rates (< 10 mm/h)
- Testing of compressed air filters

Mehr Informationen:
https://www.palas.de/en/product/rbg1000gd