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.

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

Applications

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

DATASHEET

Particle size range	0.1 – 100 μm
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