RBG 2000 D







This device disperses particles at positive pressure values of up to 3 bar.

Please note: The 16-, 20-, and 28-mm solid material reservoirs are pressure-resistant; the 32-mm solid material reservoir is not pressure-resistant. The solid material reservoir with a diameter of 32 mm is able to be used in the RBG 2000 D exclusively under atmospheric conditions.

Nitrogen cannot be used as the dispersing gas in the pressure-resistant version of the RBG 2000.

BENEFITS

- Pressure-resistant at positive pressure values of up to 3 bar
- Optimal short-term and long-term dosing constancy
- Double the dosing time in comparison with the RBG 1000
- Disperses virtually any non-cohesive dusts
- Easy to switch out different solid material reservoirs and dispersion covers
- Easy to determine and adjust the mass flow
- Able to adjust higher mass flows than the RGB 1000
- Pulse mode
- Easy to clean
- · Quick and easy to operate
- · Reliable function
- Low maintenance
- Reduces your operating expenses

APPLICATIONS

- All applications pressure resistant up to 3 bar overpressure
- Testing of compressed air filters
- Filter industry
 - Determination of fractional separation efficiency
 - Determination of total separation efficiency
 - Long-term dusting
 - Filter media and assembled filters
 - Dust filters
 - Vacuum cleaners and vacuum filters
 - Car interior filters
 - Engine air filters
- Calibrating particle measurement devices
- Flow visualization
- · Inhalation experiments
- Tracer particles for LDV, PIV, etc.
- Surface coatings



DATASHEET

Particle size range	$0.1-100~\mu\mathrm{m}$	Maximum particle number concentration	Ca. 10 ⁷ particles/cm ³
Volume flow	40 – 80 Nl/min	Mass flow (particles)	1 - 560 g/h (with an assumed compacted density of 1 g/cm ³)
Filling height	180 mm	Filling quantity	36 g (reservoir \emptyset = 16 mm), 56 g (reservoir \emptyset = 20 mm), 110 g (reservoir \emptyset = 28 mm), 144 g (reservoir \emptyset = 32 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	Air	Maximum counter pressure	Up to 3 barg overpressure
Compressed air connection	Quick coupling	Feed rate	5 – 700 mm/h
Reservoir inner diameter	16, 20, 28 mm	Aerosol outlet connection	Dispersion cover type A: $\varnothing_{\text{inside}} = 5 \text{ mm}, \varnothing_{\text{outside}} = 8 \text{ mm}; \text{Dispersion cover type D:} \ \varnothing_{\text{inside}} = 5 \text{ mm}, \varnothing_{\text{outside}} = 8 \text{ mm}$
Dispersion cover	Type A, Type D	Dimensions	1.160 • 530 • 500 mm (H • B • T)
Weight	Approx. 40 kg		