RBG 1000 D







This device disperses particles at positive pressure values of up to 3 bar. 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 solid material reservoir with a diameter of 28 mm is not pressure-resistant but can be used with the RBG 1000 D 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.

优势

- Pressure-resistant to 3 bar over pressure
- Optional: Low pressure operation from 300 mbar absolute, remote control orcomputer-controlled
- Highest short-term and long-term dosing constancy
- Disperses virtually all non-cohesive dusts
- Easy exchange of different solid material reservoirs and dispersing covers
- Easy determination and adjustment of the mass flow
- Pulse mode
- Device easy to clean
- · Quick and easy to operate
- Reliable operation
- · Little maintenance required
- Reduces your operating expenses

应用领域

- 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 ready-made filters
 - Dust removal filters
 - Vacuum cleaners and vacuum cleaner filters
 - Car interior filters
 - Engine air filters
- · Calibration of particle measurement devices
- Flow visualization
- · Inhalation tests
- Tracer particles for LDA, PIV, etc.
- · Coating of surfaces



技术数据

sumed compacted de g/cm³) Filling height 70 mm Filling quantity 2.7 g (reservoir Ø = 10 g (reservoir Ø = 10 g (reservoir Ø = 10 mm), 43 g (reservoir Ø = 14 mm), 22 g (reservoir Ø = 14 mm), 22 g (reservoir Ø = 14 mm), 22 g (reservoir Ø = 14 mm), 23 g (reservoir Ø = 14 mm), 23 g (reservoir Ø = 14 mm), 23 g (reservoir Ø = 14 mm), 24 g (reservoir Ø = 14 mm), 25 g (reservoir Ø = 10	粒径范围	0.1 – 100 μm	颗粒物最大数量浓度	Ca. 10 ⁷ particles/cm ³
関係 (reservoir \emptyset = 10 g (reservoir \emptyset = 14 mm), 22 g (reservoir \emptyset = 14 mm), 23 g (reservoir \emptyset = 14 mm), 23 g (reservoir \emptyset mm) 中部	体积流量	0.5 – 5.0 m ³ /h	Mass flow (particles)	0.04-430 g/h (with an assumed compacted density of 1 g/cm ³)
Dosing time Several hours nonstop Pre-pressure Carrier/dispersion gas Air Maximum counter pressure Compressed air conquick coupling pressure Compressed air conquick coupling pressure Feed rate 5 – 700 mm/h Aerosol outlet connection Reservoir inner diametry ter Aerosol outlet connection Dispersion cover pressure Dispersion cover pressure Aerosol outlet connection Maximum counter pressure 5 – 700 mm/h Aerosol outlet connection Maximum counter pressure 5 – 700 mm/h Aerosol outlet connection Maximum counter pressure 5 – 700 mm/h Aerosol outlet connection Maximum counter pressure 5 – 700 mm/h Aerosol outlet connection Maximum counter pressure 5 – 700 mm/h Aerosol outlet connection Maximum counter pressure 6 mmDispersion cover pressure	Filling height	70 mm	Filling quantity	= 14 mm), 22 g (reservoir \emptyset = 20 mm), 43 g (reservoir \emptyset = 28
Carrier/dispersion gas Air Maximum counter pressure Compressed air con- Quick coupling nection Reservoir inner diame- 7, 10, 14, 20 mm Aerosol outlet connection Aerosol outlet connection Dispersion cover dinside = 5 mm, Øor mmDispersion cover Øinside = 3.6 mmDispersion cover	电源	115 – 230 V, 50/60 Hz	Particle material	'
Compressed air con- Quick coupling Feed rate 5 – 700 mm/h nection Reservoir inner diame- 7, 10, 14, 20 mm Aerosol outlet connection Aerosol outlet connection Dispersion cover dinside = 5 mm, Øor mmDispersion cover Øinside = 3.6 mm	Dosing time	Several hours nonstop	Pre-pressure	4 – 8 bar
Reservoir inner diame- 7, 10, 14, 20 mm Aerosol outlet connection Dispersion cover tion $\emptyset_{inside} = 5$ mm, \emptyset_{old} mmDispersion cover $\emptyset_{inside} = 3.6$ mm, \emptyset_{old} 6 mmDispersion cover $\emptyset_{inside} = 3.6$ mm, \emptyset_{old}	Carrier/dispersion gas	Air		0.2 barg
ter tion $\emptyset_{inside} = 5 \text{ mm}, \emptyset_{oi}$ mmDispersion cove $\emptyset_{inside} = 3.6 \text{ mm}, \emptyset$ 6 mmDispersion co		Quick coupling	Feed rate	5 – 700 mm/h
mm		7, 10, 14, 20 mm		Dispersion cover type A: $\emptyset_{\text{inside}} = 5 \text{ mm}, \emptyset_{\text{outside}} = 8 \text{ mmDispersion cover type B:} $ $\emptyset_{\text{inside}} = 3.6 \text{ mm}, \emptyset_{\text{outside}} = 6 \text{ mmDispersion cover type:} $ $\emptyset_{\text{inside}} = 2.5 \text{ mm}, \emptyset_{\text{outside}} = 6 \text{ mm}$
Dispergierdeckel Type A, type B, type C, type D Dimensions 465 • 320 • 200 mm D)	Dispergierdeckel	Type A, type B, type C, type D	Dimensions	465 • 320 • 200 mm (H • W • D)
重量 Approx. 19 kg	重量	Approx. 19 kg		