

Plastics Processing

GUNJET "PG" Air Cannons



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Description ▼

Rat-holing is a phenomenon that frequently occurs with certain materials inside bins or silos. Due to the physical and chemical properties of the product, the central material column instantaneously drops as soon as the silo outlet valve is opened, while the surrounding material remains immobile.

Especially with light materials a GUNJET "PG" Air Cannon is often the ideal solution for such inconvenient situations. Other applications are the corners of rectangular-shaped bins where because of tiled walls or inserts, hammering or vibration on the outlet sections is unsuitable. GUNJET "PG" Air Cannons are also successfully used in cases where bridging occurs.

Function ▼

The electro-pneumatically activated GUNJET "PG" Air Cannon releases almost instantaneously a certain quantity of highly compressed air into the material inside the silo or bin, thus provoking the typical effect of an explosion. As a result bridges or rat holes will collapse.



Application ▼

GUNJET "PG" Air Cannons are used in **fibre processing** plants where flow aids are required.

Typical applications are compounding or masterbatch lines where they are fitted on **storage hoppers**.

Benefits ▼

- ✓ Suitable for filamentous materials or flakes;
- ✓ Avoids further compaction of the material to be handled;
- ✓ The intermittent air cannon blow radically solves all mass flow problems;
- ✓ No damage to bin structure;
- ✓ Low noise level;
- ✓ Durable;
- ✓ Easy maintenance;
- ✓ Lubrication-free.

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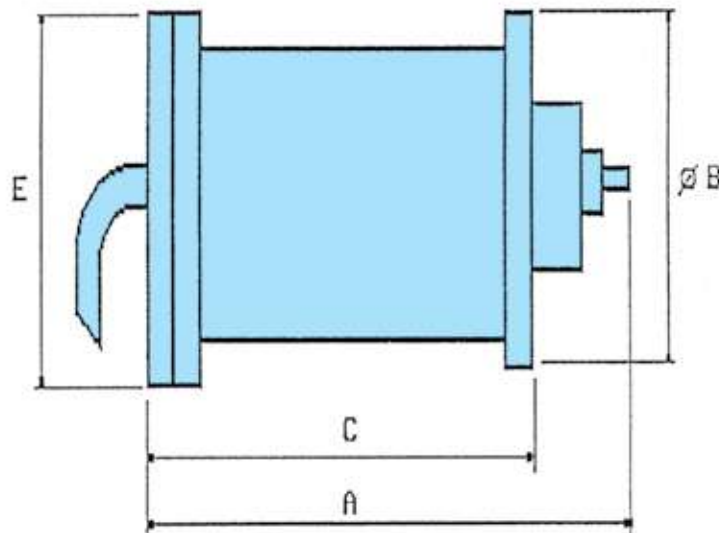
GUNJET "PG" Air Cannons



Technical Features / Performance ▼

- ▶ Galvanised steel body
- ▶ Weld-on steel plate included
- ▶ PVC gasket between weld-on steel plate and body
- ▶ Safety chain fixed on silo/hopper (for assembly and dismantling)
- ▶ Air inlet (PG40: 1/8" – PSG63-80: 1/4")
- ▶ Electro-pneumatic kit
- ▶ Operating temperature: -20° C to 80° C (-4° F to 180° F)
- ▶ Operating pressure: 3 to 6 bar (44 to 88 PSI)
- ▶ Accessories:
 - IP 65 coils
 - Control panel for adjustment of operation/ pause intervals
 - Extension with 2 or 4 outputs
- ▶ Air consumption per cycle: 0.3 – 4.8 NI (0.01 – 0.2 cu ft)

Overall Dimensions ▼



TYPE	A	ØB	C	ØE	Air Consumption NI per cycle		Air Connection	kg	Package
					3 bar	6 bar			
PG032	205	105	135	120	0,3	0,7	1/8 pipe 8 mm	6.2	270x185x170
PG040	245	115	175	120	0,6	1,3	1/8 pipe 8 mm	8.2	270x185x170
PG063	285	150	215	150	1,17	2,3	1/4 pipe 8 mm	16.2	450x200x220
PG080	335	200	265	200	2,3	4,8	1/4 pipe 8 mm	29.7	450x200x220

Dimensions in mm

This datasheet might not show the complete range but only the models most suitable for the application.