

Plastics Processing Bin Activator BA-310



1



Description ▼

The BA Bin Activator is a device of tapered conical shape that due to vibration facilitates material flow from hoppers or silos. It consists of a seamless carbon or stainless steel cone manufactured on a sheet metal lathe, a seamless SINT® engineering polymer seal with integrated upper and lower flange, suspensions for connection of the Bin Activator with the silo, as well as one or two electric vibrators.

Function ▼

One or two electric vibrators fitted to the unit generate vibration of the Bin Activator every time the feeding device beneath the silo is started for material extraction. During operation the Bin Activator describes a gyratory movement which is transmitted to the material inside the silo. The result is smooth material flow through the Bin Activator outlet into the connected feeder.

BA-0310 Bin Activators are used in various applications in plastics processing to facilitate discharging of powdery materials from silos or hoppers. The use of this equipment ensures optimum feeding of the material causing "mass flow" inside the silo, thus avoiding bridging or rat holing phenomena.



Applications ▼

Discharging of a variety of powders.

Usually fitted in large numbers under the raw material storage silos or daily buffer silos/hoppers to discharge poorly flowing powders such as calcium carbonate, titanium dioxide, resins, a number of oxides, carbon black, talcum powder etc.

The BA outlet is usually shut off by a rotary valve, slide valve or butterfly valve which is connected with a mechanical or pneumatic conveying device.

Benefits ▼

- ✓ **No material residue thanks to appropriate design features;**
- ✓ **No material contamination thanks to stainless steel contact parts;**
- ✓ **High discharging performance;**
- ✓ **Total operator safety according to ATEX directive;**
- ✓ **Reduced maintenance thanks to long-life seal material.**

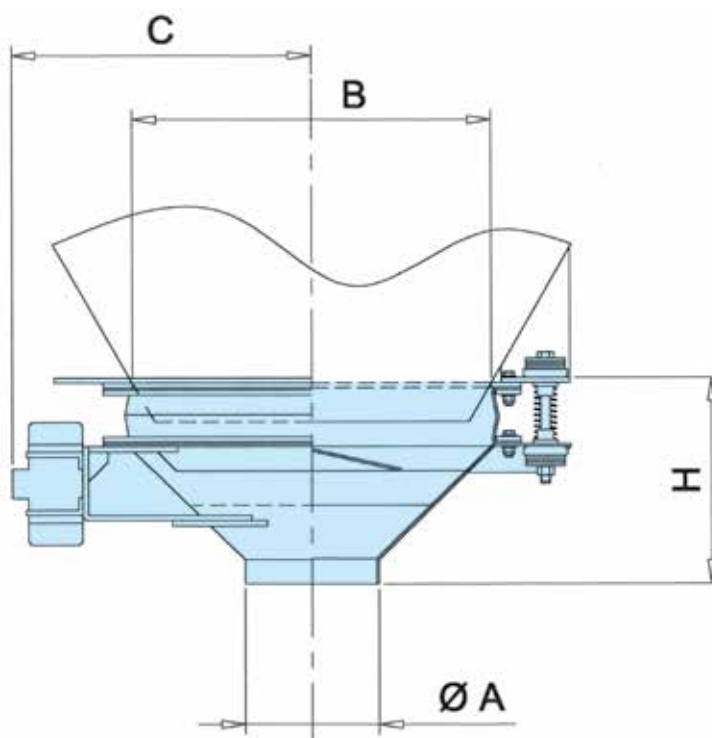
Plastics Processing Bin Activator BA-310



Technical Features / Performance ▼

- ▶ Diameters up to 2,350mm (8 ft)
- ▶ Fabricated parts in 304L stainless steel
- ▶ No internal residue nests
- ▶ Smooth internal finishing
- ▶ Suspensions suitable for positive or negative pressure silo filling
- ▶ PN10 flange connection on request
- ▶ ATEX-compliant

Overall Dimensions ▼



TYPE	Size	Ø A* Standard	B	C	H	Vibrators	kg
BA040	400	114	380	427	330	1	59
BA060	600	168	580	519	408	1	80
BA075	750	219	730	609	456	1	99
BA090	900	219	880	684	531	1	134
BA100	1,000	273	980	734	555	1	146
BA125	1,250	273	1,230	937	730	1	290
BA150	1,500	323	1,480	1,120	774	1	475
BA180	1,800	323	1,780	1,194	924	2	726
BA210	2,100	406	2,080	1,420	1,033	2	881
BA235	2,350	406	2,330	1,547	1,166	2	1,255

(*) Further outlet dimensions reported in Technical Catalogue

Dimensions in mm

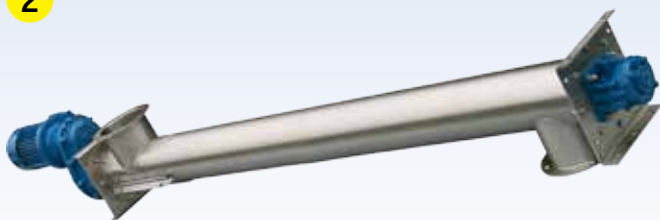
This datasheet might not show the complete range but only the models most suitable for the application.

Plastics Processing

Screw Feeders TX-310



2



Description ▼

TX-310 Tubular Screw Feeders, which are manufactured in stainless steel with a suitable surface finishing grade appropriate for the application in the plastics processing industry, are highly versatile. Manufacture of the fabricated components is carried out on machines that guarantee a perfectly smooth surface due to which material residue is reduced to the minimum.

The screw feeders are made up from a tubular trough which is equipped with an inlet and an outlet spout, an end plate at each tube end, helicoid screw flighting welded on a centre pipe with a coupling bush at each end, two end bearing assemblies complete with air or gas-purged, adjustable shaft sealing unit. Furthermore, the screw feeders are equipped with a gear motor suitable for the application.

TX-310 Tubular Screw Feeders come without intermediate bearings.

Function ▼

TX-310 Tubular Screw Feeders are usually installed under a silo or FIBC (Bulk Bag) discharger to feed powdery or granular materials into a weigh hopper. They are suitable for applications in which any contamination of the material handled has to be strictly avoided.



Application ▼

The application in the photograph shows a TX-310 Screw Feeder installed beneath a ribbon blender to transfer the mixed product into a pneumatic conveying system.

Benefits ▼

- ✓ Comfortable cleaning and maintenance;
- ✓ Minimum residue;
- ✓ High feeding accuracy;
- ✓ Vast range of options and accessories;
- ✓ Attractive price.

Plastics Processing

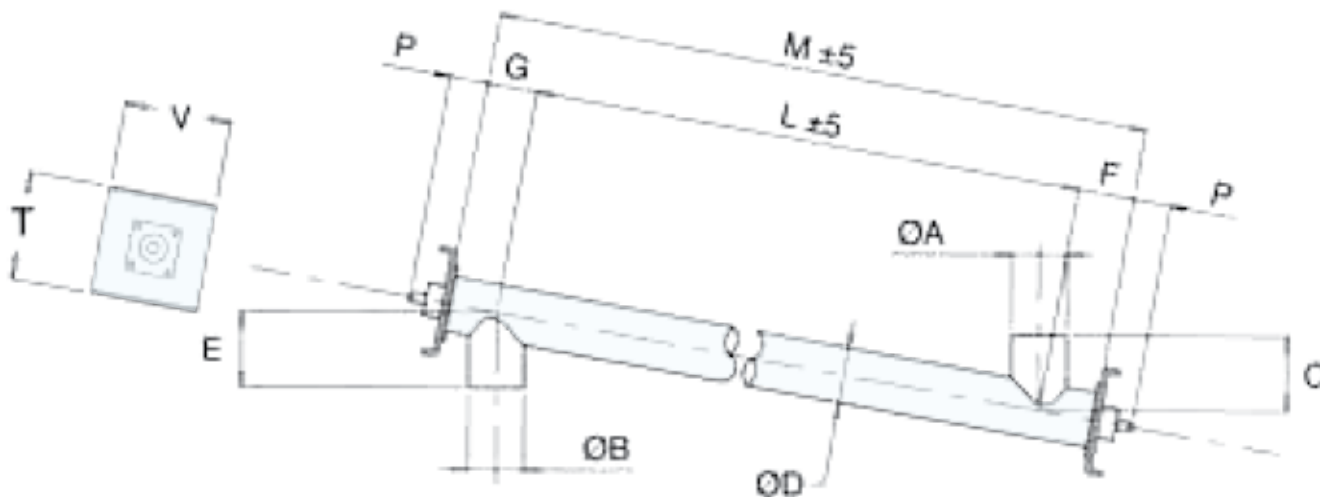
Screw Feeders TX-310



Technical Features / Performance ▼

- ▶ All fabricated parts manufactured from stainless steel
- ▶ Air or gas-purged shaft sealing units for maximum material protection against contamination
- ▶ Easily accessible inspection hatches
- ▶ Modular design
- ▶ ATEX Zone 22 certification

Overall Dimensions ▼



Type	100	120	150	200	250	300
Ø A	114	139	168	219	273	323
Ø B	114	139	168	219	273	323
C	1)					
Ø D	114	139	168	219	273	323
E	1)					
F	140	140	160	180	220	220
G	120	120	140	160	180	220
L	2)					
M	L + F + G					
P	114	114	124	124	124	124
T	280	280	280	355	410	465
V	265	265	265	315	365	435

Dimensions in mm

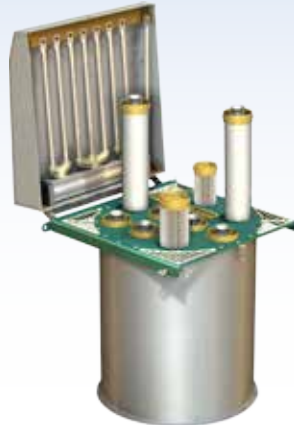
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Plastics Processing

WAMFLO® Dust Collector FN-310



3.1



Description ▼

The WAMFLO® FN-310 Dust Collector has been specifically developed for use in the plastics processing industry. It is equipped with a cylindrically shaped stainless steel body with lower flanged connection. The casing contains vertically mounted WAM® cartridge or bag-type filter elements. The air jet cleaning system is integrated in the top cover.

Function ▼

WAMFLO® FN-310 Dust Collectors are used for silo and hopper venting, negative pressure and suction applications. Dust is separated from the air flow by means of antistatic filtering elements with an efficiency of 99.9%. The filter media is kept clean by an integrated reverse air jet cleaning system which removes the collected dust from the media.

Application ▼

WAMFLO® FN-310 Dust Collectors are used for silo venting, hopper venting and de-dusting of negative pressure pneumatic conveying systems. For negative pressure application the filter can be equipped of round hopper and negative pressure bin.



Benefits ▼

- ✓ Safety for OEM and End User;
- ✓ Operating cost reduction;
- ✓ Low energy consumption;
- ✓ Maintenance cost reduction;
- ✓ Compliance with health and safety standards;
- ✓ Attractive price.

ATEX-compliant



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Plastics Processing

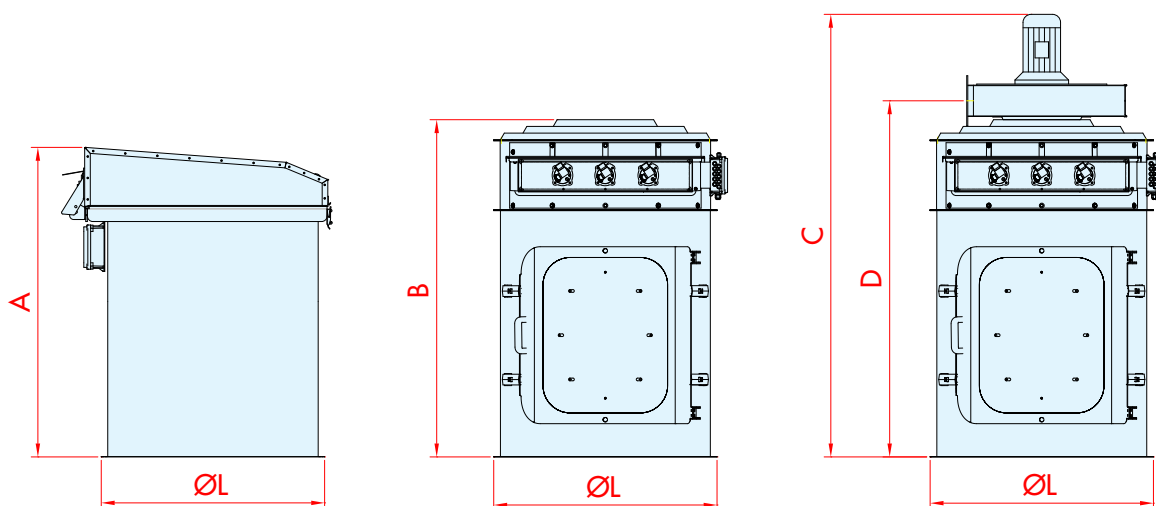
WAMFLO® Dust Collector FN-310



Technical Features / Performance ▼

- ▶ 304 stainless steel flanged cylindrical shape body
- ▶ Filter surface from 3 to 16m²
- ▶ Low emission level due to B.I.A.-certified filter media
- ▶ Compressed air jet cleaning system integrated in top cover
- ▶ ATEX category 2/2 D, 2/3D
Pred = 1 bar
- ▶ High cleaning efficiency due to "Full Immersion" solenoid valves incorporated in aluminium air tank (corrosion-resistant) for low-on-maintenance operation
- ▶ Safe weather protection cover with lockable snap hook
- ▶ No tools for filtering element removal required
- ▶ Max. negative pressure: -0.5 bar
- ▶ Large inspection door
- ▶ 50 litre negative pressure bin with fast unlocking system

Overall Dimensions ▼



VENTING

NEGATIVE PRESSURE

SUCTION

Filter Surface (m ²)		Ø L	A	B	C	D	E	A1	C1
FNC FNS ①	FNM FNB ②								
7	-	600	746	690	520	775	880	1.325	913
12	3	600	1.146	690	920	775	880	1.725	1.313
22	5	800	1.146	875	920	960	1.010	1.830	1.343
-	8	800	1.586	875	1.360	960	1.010	2.270	1.783
-	11	800	2.066	875	1.840	960	1.010	2.750	2.263
-	16	1.000	1.586	1.125	1.360	1.210	1.325	2.295	1.803

Dimensions in mm

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



WAM®



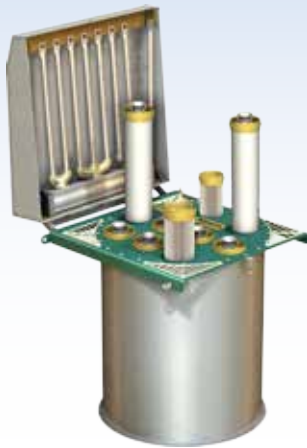
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Plastics Processing

WAMFLO® Dust Collector FNX-310



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Description ▼

The ATEX-compliant WAMFLO® FNX-310 Dust Collector has been specifically developed for use in the plastics processing industry. It is equipped with a cylindrically shaped stainless steel body with lower flanged connection. The casing contains vertically mounted WAM® cartridge or bag-type filter elements. The air jet cleaning system is integrated in the top cover.

Function ▼

WAMFLO® FNX-310 Dust Collectors are used for both venting and suction applications.

Dust is separated from the air flow by means of antistatic filtering elements with an efficiency of 99.9%. The filter media is kept clean by an integrated reverse air jet cleaning system which removes the collected dust from the media.

Application ▼

WAMFLO® FNX-310 Dust Collectors are used for both venting and suction applications.

The modular system combines the maximum safety of a flanged body connection with the variety of options in terms of type of filter media and filtering elements with the unique integrated pneumatic cleaning system design.



DS 310 FNX-EN December 2012 801 Rights reserved to modify technical specifications.

Benefits ▼

- ✓ Safety for OEM and End User;
- ✓ Operating cost reduction;
- ✓ Low energy consumption;
- ✓ Maintenance cost reduction;
- ✓ Compliance with health and safety standards;
- ✓ Attractive price.

ATEX-compliant



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Plastics Processing

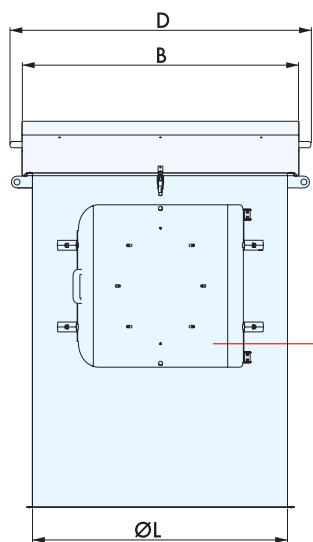
WAMFLO® Dust Collector FNX-310



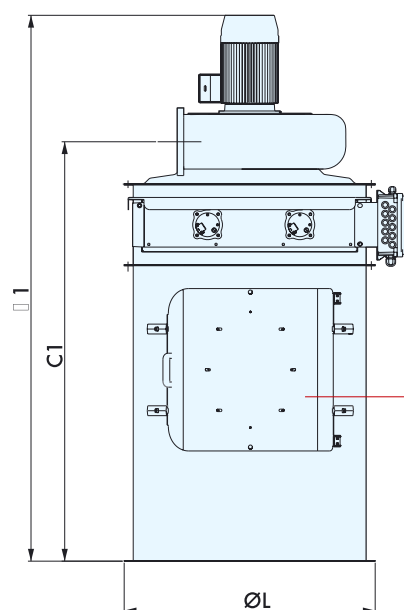
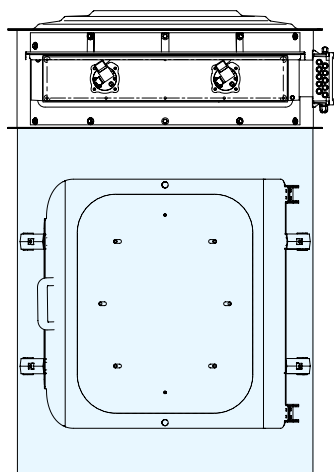
Technical Features / Performance ▼

- ▶ ATEX-compliant
- ▶ 304 stainless steel flanged cylindrical shape body
- ▶ Filter surface from 5 to 16m²
- ▶ Low emission level due to B.I.A.-certified filter media
- ▶ Pred = 1 bar
- ▶ Compressed air jet cleaning system integrated in top cover
- ▶ High cleaning efficiency due to "Full Immersion" solenoid valves incorporated in aluminium air tank (corrosion-resistant) for low-on-maintenance operation
- ▶ Safe weather protection cover with lockable snap hook
- ▶ No tools for filtering element removal required
- ▶ Max. negative pressure: -0.5 bar
- ▶ Large inspection door

Overall Dimensions ▼



option



option

Filter Surface (m ²)		Ø L	A	B	C	D	E	A1	C1
FNC FNS 1	FNM FNB 2								
7	-	600	746	690	520	775	880	1.325	913
12	3	600	1.146	690	920	775	880	1.725	1.313
22	5	800	1.146	875	920	960	1.010	1.830	1.343
-	8	800	1.586	875	1.360	960	1.010	2.270	1.783
-	11	800	2.066	875	1.840	960	1.010	2.750	2.263
-	16	1.000	1.586	1.125	1.360	1.210	1.325	2.295	1.803

Dimensions in mm

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Plastics Processing

MARTSHOCK "PS" Pneumatic Hammers



4



Description ▼

MARTSHOCK Intermittent Electropneumatic Hammers belong to those flow aids that act destructively as bridge breakers. The mechanical energy released at regular intervals, at the moment of collision, is transmitted through the container wall to the stored material.

MARTSHOCK Hammers are suitable for loosening of adhesive material crusts on walls, pipes and bins, and as bridge breakers in silos. The blow impulse leads to the complete detachment of the crusts or the collapse of a material bridge.

MARTSHOCK Hammers are particularly suitable for retrofitting to existing silo cones or hoppers as no emptying of the bin or drilling of the wall is required.

Function ▼

The MARTSHOCK Pneumatic Hammer blows produce a violent impact on the wall on which the unit is fitted. It is suitable for all bin shapes and sizes.



Application ▼

PS-type MARTSHOCK is used in all types of **powder** processing plants where flow aids are required.

Typical applications are compound or master batch production lines in which they are fitted on **storage silos or hoppers**.

Benefits ▼

- ✓ Suitable even for hygroscopic powdery or granular materials;
- ✓ Avoids further compaction of the material to be handled;
- ✓ Intermittent hammering radically solves all mass flow problems;
- ✓ No damage to bin or silo structure;
- ✓ ATEX Zone 22 compliance (with ATEX accessories);
- ✓ Low noise impact (with noise-abating accessories);
- ✓ Durable;
- ✓ Easy maintenance;
- ✓ Lubrication-free.

Plastics Processing

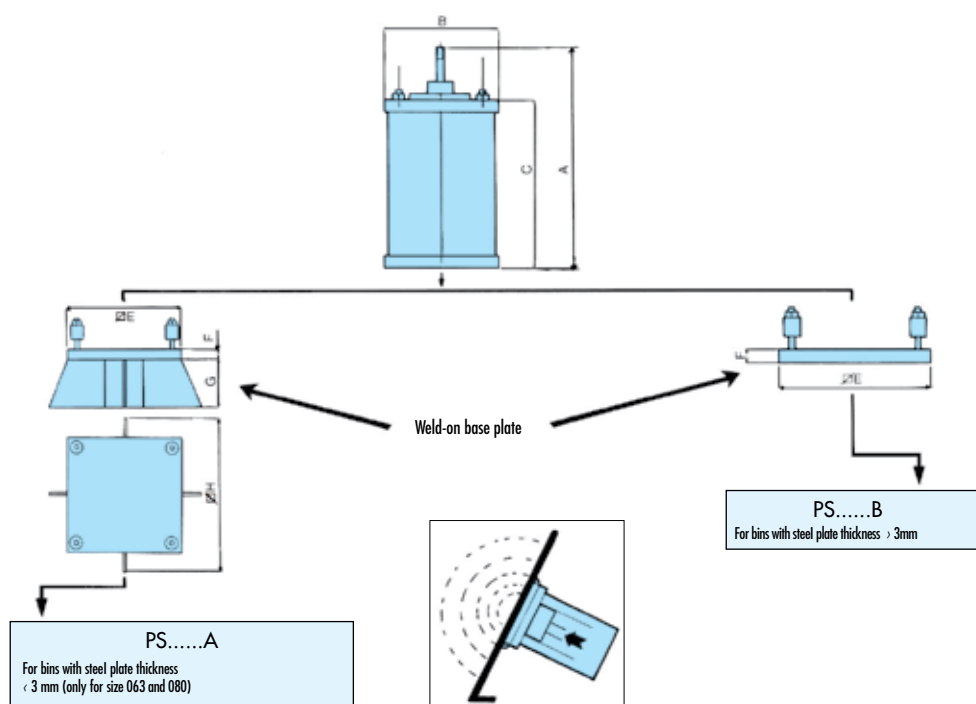
MARTSHOCK "PS" Pneumatic Hammers



Technical Features / Performance ▼

- ▶ Galvanised steel body
- ▶ Weld-on steel plate included (2 types with different thickness)
- ▶ 4 vibration dampers
- ▶ PVC gasket between weld-on plate and body
- ▶ Safety chain fixed on silo/hopper (for assembly and dismantling)
- ▶ Air inlet (PS40: 1/8"; PS63: 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
 - ATEX Zone 22, noise abating components
 - Control panel for adjustment of operation/pause intervals
- ▶ Extension with 2 or 4 outputs

Overall Dimensions ▼



								Air consumption NI per cycle		Air connection	Energy				kg	Packing
											3 bar		6 bar			
											TYPE	A	ØB	C		
PSO40	245	115	175	130	20	60	160	0.6	1.3	1/8 pipe 8 mm	8.4	0.86	18.1	1.85	8.5	270x185x170
PSO63	281	150	213	160	20	75	220	1.17	2.3	1/4 pipe 8 mm	28.8	2.94	62	6.34	16.5	450x200x220
PSO80	340	200	266	200	25	94	250	2.3	4.8	1/4 pipe 8 mm	59.2	6.0	153	15.6	30	450x200x220

Dimension in mm

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

Plastics Processing

GUNJET "PG" Air Cannons



5



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.

Plastics Processing

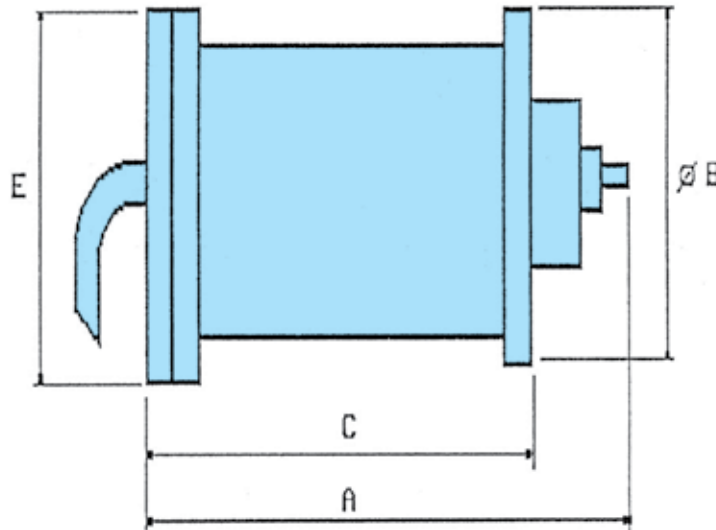
GUNJET "PG" Air Cannons



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

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Plastics Processing

PICJET® “PJ” Combined Hammer Blasts



6

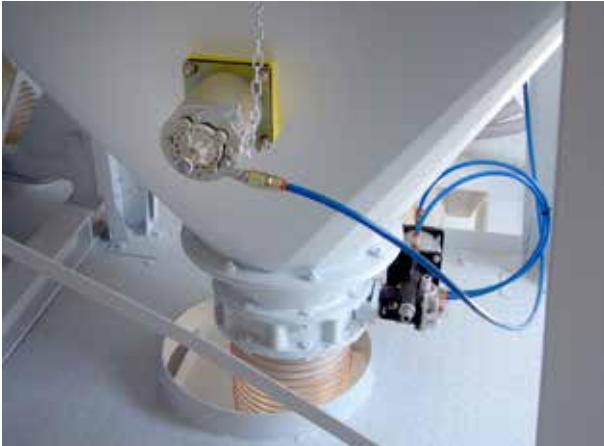


Description ▼

The PICJET® Combined Hammer Blast adds a compressed air jet to a mechanical action expanding across the surrounding wall surface, as well as in the material stored. It also adds more extended impact vibration. The PICJET® Hammer Blast is most suitable for materials with a tendency to bridge or rathole and for those with hygroscopic properties.

Function ▼

The PICJET® Combined Hammer Blast is electro-pneumatically operated, and it develops simultaneously an instantaneous hammer blow and an air shot along the silo wall, as well as inside the stored material, which is increased by the mechanical impact of the hammer. This combined effect radically resolves all mass flow problems.



Application ▼

PICJET® Hammer Blast are used in **flakes** processing plants where flow aids are required for discharging the material. Typical applications are compound or masterbatch lines. The PICJET® are fitted on **storage hoppers** or on **FIBC (Bulk Bag) dischargers**.

Benefits ▼

- ✓ **Patented design;**
- ✓ **Guaranteed duration at maximum pressure: 150,000 blows;**
- ✓ **3 effects: Hammering, Air Blast, Vibration;**
- ✓ **Suitable for powdery or granular, non hygroscopic materials;**
- ✓ **Avoids further compaction of the material to be handled;**
- ✓ **Combined effect radically solves all mass flow problems;**
- ✓ **No damage to bin structure;**
- ✓ **Low-noise single impact;**
- ✓ **Lubrication-free;**
- ✓ **Durable;**
- ✓ **Easy maintenance.**

Plastics Processing

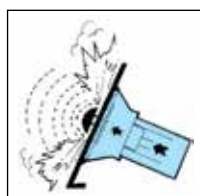
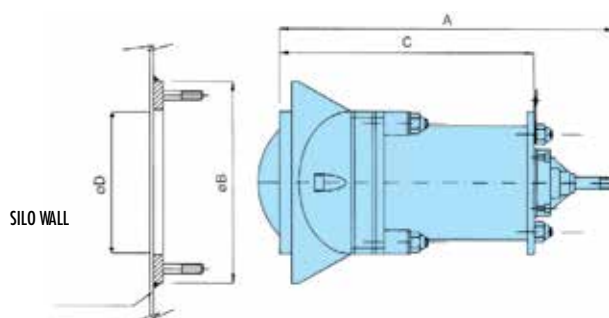
PICJET® “PJ” Combined Hammer Blasts



Technical Features / Performance ▼

- ▶ Galvanised steel body
- ▶ Weld-on steel flange included
- ▶ 4 vibration dampers
- ▶ Nylon base
- ▶ Polyurethane aeration wall
- ▶ Safety chain fixed on silo/hopper (for assembly and dismantling)
- ▶ Air inlet (PJ 40: 1/8" – PJ 63-80: 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
- ▶ Guaranteed duration at maximum pressure: 150,000 blows

Overall Dimensions ▼



					Air consumption NI per cycle		Air connection	Energy				kg	Packing
								3 bar		6 bar			
								J	kpm	J	kpm		
TYPE	A	ØB	C	ØD	3 bar	6 bar		J	kpm	J	kpm		
PJO40	330	170	255	121	0.6	1.3	1/8 pipe 6 mm	8.4	0.86	18.1	1.85	10	450x200x220
PJO63	385	222	310	155	1.17	2.3	1/4 pipe 8 mm	28.8	2.94	62	6.34	19.3	450x200x220
PJO80	465	280	390	176	2.3	4.8	1/4 pipe 8 mm	59.2	6.0	153	15.6	40	450x200x220

Dimension in mm

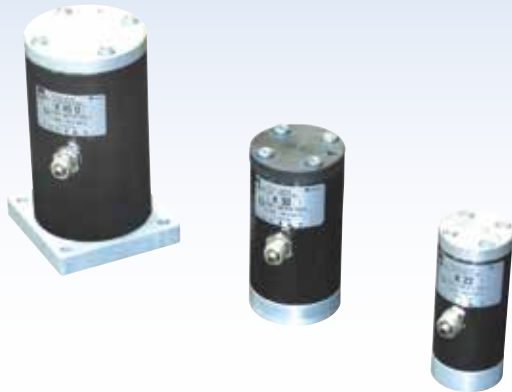
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Plastics Processing

"K" External Pneumatic Linear Vibrators



7



Description ▼

"K" External Pneumatic Linear Vibrators are particularly suitable for conveying, compacting and detaching of bulk solids due to perfectly linear vibrations. They reach optimum results in emptying of bins or as drives for vibrating conveyors or feeders.

Function ▼

"K" External Pneumatic Linear Vibrators are light and compact. Sinusoidal vibration is generated by a self-reversing piston which is freely floating on an air cushion. Frequency and amplitude can be continuously and independently adjusted. "K" External Pneumatic Linear Vibrators may operate mounted in any position. Their start/stop behaviour is optimal.



Application ▼

"K" External Pneumatic Linear Vibrators are used in fibre and flake processing plants where flow aids are required. A typical application are compound or masterbatch lines. "K" vibrators are fitted on:

- FIBC (Bulk Bag) dischargers
- Storage, weigh and feed hoppers
- Vibrating tables installed under FIBC filling stations (to compact the materials inside the Bulk Bag)

Benefits ▼

- ✓ Air-cushioned vibrator;
- ✓ Wide amplitude with low frequency;
- ✓ ATEX Zone 22 compliance – Ex II 3D T100°;
- ✓ Can operate in any position;
- ✓ Optimum start/stop behaviour;
- ✓ Suitable for powdery or granular materials;
- ✓ No damage to bin structure;
- ✓ Low noise level;
- ✓ Low air consumption;
- ✓ Durable;
- ✓ Easy to install;
- ✓ Lubrication-free.

Plastics Processing

"K" External Pneumatic Linear Vibrators



Technical Features / Performance ▼

- ▶ Anodized "Anticorodal" aluminum body and cover
- ▶ Brass silencer
- ▶ Nickel-plated brass air nipple inlet
- ▶ Operating temperature : -20° to 130°C (-4° F to 266° F)
- ▶ Operating pressure : 3 to 6 bar (44 to 87 PSI)

Overall Dimensions ▼

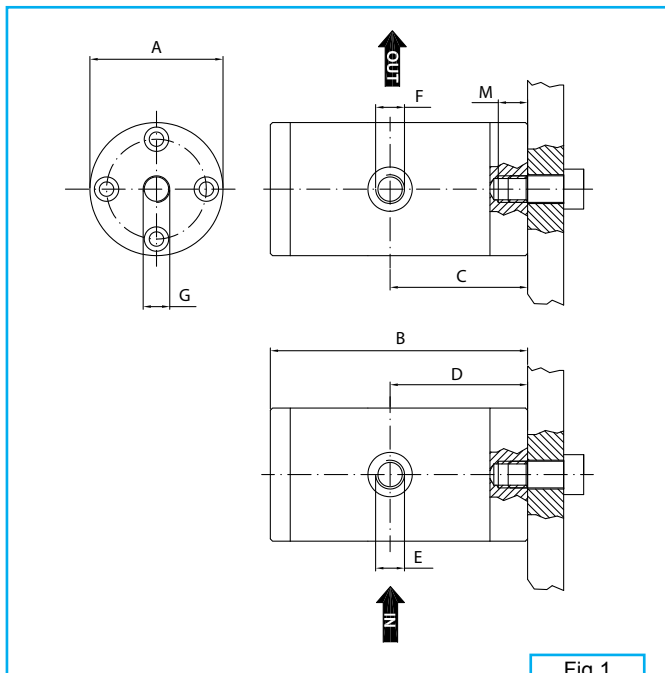


Fig.1

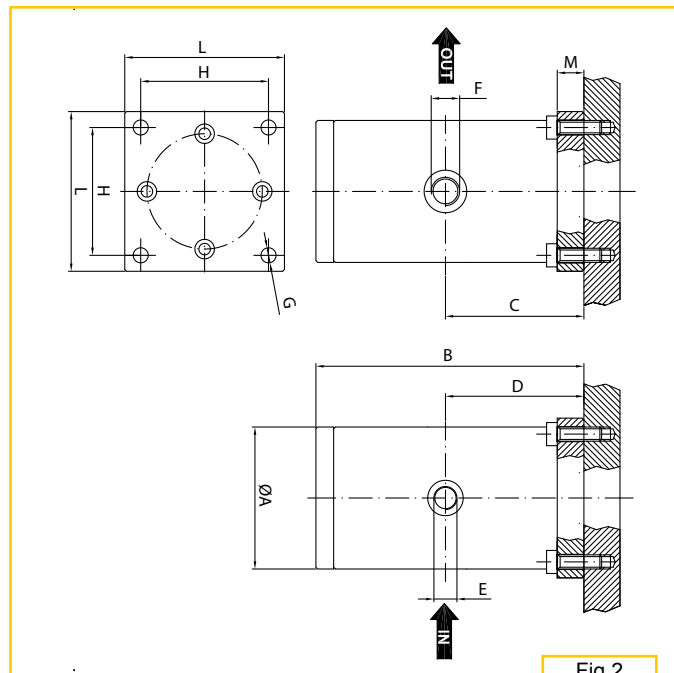


Fig.2

For activation a 3/2 way electrovalve and filtered compressed air are required.

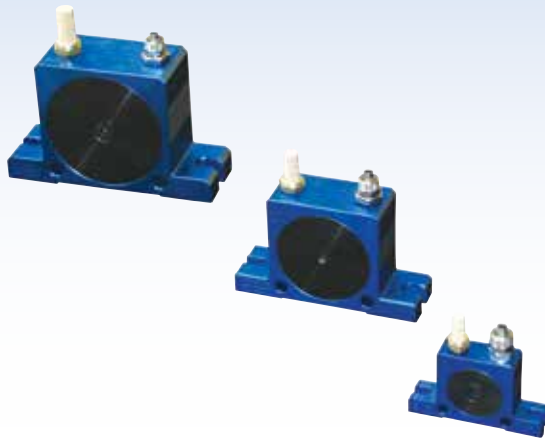
TYPE	FIG.	A		B		C		D		E	F	G	H		Weight		L		M	
		mm	in	mm	in	mm	in	mm	in				mm	in	kg	lb	mm	in	mm	in
K15	1	32	1.26	69	2.72	37	1.46	37	1.46	M5	1/8"	M8	/	/	0.17	0.37	/	/	9	0.35
K22	1	45	1.77	105	4.13	56	2.2	56	2.2	1/8"	1/8"	M10	/	/	0.50	1.10	/	/	13	0.51
K30	1	60	2.36	116	4.57	62	2.44	62	2.44	1/4"	1/4"	M12	/	/	1.03	2.27	/	/	13	0.51
K45	2	80	3.15	151	5.94	78	3.07	78	3.07	1/4"	3/8"	ø 8.5	72	2.83	2.86	6.30	90	3.54	15	0.59
K60	2	115	4.53	224	8.82	115	4.53	115	4.53	1/2"	1/2"	ø 13	102	4.02	4.60	10.14	130	5.12	20	0.79

Plastics Processing

"S" External Ball Vibrators



8



Description ▼

"S" External Pneumatic Ball Vibrators develop frequencies of up to 35,000 r.p.m. and they are used wherever powdery materials have to be moved. "S" External Ball Vibrators are installed on bins to prevent bridging or ratholing and for the improvement of material flow on chutes, screens and vibrating tables.

Function ▼

"S" External Ball Vibrators consist of an anodized aluminium body inside which a steel ball rotates on a specially hardened and ground steel ring. For operation a 2/2-way-valve and filtered compressed air are required.



Application ▼

"S" External Ball Vibrators are used in all types of powder or granular material processing plants where flow aids are required. Typical applications are compounding or masterbatch lines. They are fitted on FIBC (Bulk Bag) dischargers or storage, weigh or feeding hoppers.

Benefits ▼

- ✓ High centrifugal force and low amplitude;
- ✓ ATEX Zone 22-compliant – Ex II 3D T100°;
- ✓ Suitable for powdery or granular materials;
- ✓ No damage to bin structure;
- ✓ Low air consumption;
- ✓ Durable;
- ✓ Easy to install;
- ✓ Maintenance-free when used with filtered/lubricated air.

Plastics Processing

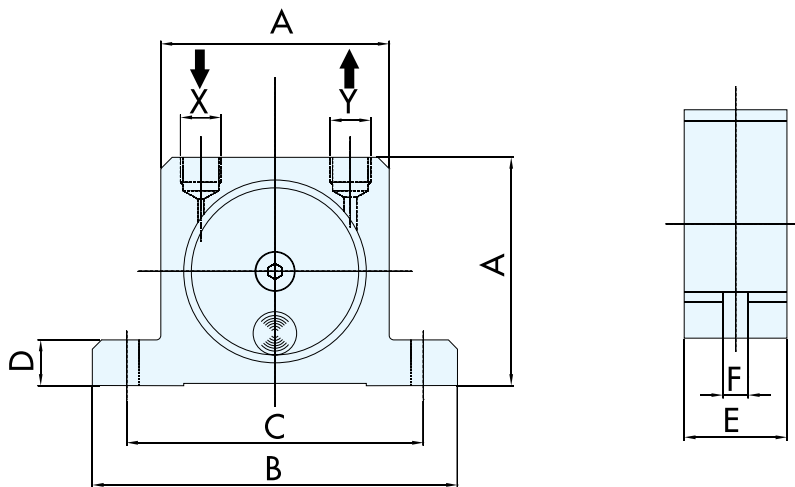
"S" External Ball Vibrators



Technical Features / Performance ▼

- ▶ Galvanised steel cover
- ▶ Brass silencer
- ▶ Nickel-plated brass air nipple inlet
- ▶ Operating temperature: -20° C to 180° C (-4° F to 356° F)
- ▶ Operating pressure: 3 to 6 bar (44 to 88 PSI)

Overall Dimensions ▼



TYPE	A		B		C		D		E		F		X-Y		
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb
S8	50	1.97	86	3.39	68	2.68	12	0.47	20	0.79	7	0.28	1/8"	0.13	0.29
S 10															
S 13	65	2.56	113	4.45	90	3.54	16	0.63	25	0.98	9	0.35	1/4"	0.26	0.57
S 16									28	1.10				0.30	0.66
S 20	80	3.15	128	5.04	104	4.09	16	0.63	33	1.30	9	0.35	1/4"	0.53	1.17
S 25									38	1.50				0.63	1.39
S 30	100	3.94	160	6.30	130	5.12	20	0.79	45	1.77	11	0.43	3/8"	1.13	2.49
S 36									50	1.97				1.34	2.95

TYPE	Vibrations			F.C. max.						Air Consumption					
	2 bar=29 psi	4 bar=58 psi	6 bar=87 psi	2 bar=29 psi		4 bar=58 psi		6 bar=87 psi		2 bar=29 psi		4 bar=58 psi		6 bar=87 psi	
	Vpm			kg	lb	kg	lb	kg	lb	l/min	CF/min	l/min	CF/min	l/min	CF/min
S8	25,500	31,000	35,000	13	29	26	57	36	79	83	2.9	145	5.1	195	6.9
S 10	22,500	28,000	34,000	25	55	47	103	71	156	92	3.2	150	5.3	200	7.1
S 13	15,000	18,500	22,500	32	70	55	121	87	191	94	3.3	158	5.6	225	7.9
S 16	13,000	17,000	19,500	45	99	80	176	110	242	122	4.3	200	7.1	280	9.9
S 20	10,500	14,500	16,500	72	158	122	268	172	378	130	4.6	230	8.1	340	12.0
S 25	9,200	12,200	14,000	93	205	157	345	205	451	160	5.7	290	10.2	425	15.0
S 30	7,800	9,700	12,500	151	332	247	543	321	706	215	7.6	375	13.2	570	20.1
S 36	7,300	9,000	10,000	206	453	315	693	405	891	260	9.2	475	16.8	675	23.8

Plastics Processing

“MVE” External Electric Motovibrators



9



Description ▼

The range of “MVE” External Electric Motovibrators is the result of 50 years of experience in vibrating technology for various industrial applications worldwide. OLI® External Electric Vibrators afford a guarantee of long-term durability reflecting the care taken over selection of components and the high level of precision adopted in manufacture.

Function ▼

“MVE” External Electric Motovibrators are used in a number of different applications: as material flow aids, for screening, conveying, cleaning, detaching, compacting and sorting.



Application ▼

“MVE” External Electric Motovibrators are used in **powder** processing plants where flow aids are required.

Typical applications in the plastics industry are compound or master-batch lines.

They are commonly fitted on **FIBC (Bulk Bag) dischargers**.

Benefits ▼

- ✓ **Oversized SKF bearings;**
- ✓ **2-years-warranty including electric components;**
- ✓ **Ex-stock delivery;**
- ✓ **Certificates available: Ex/CE/ETL/GOST/Baseefa/IEC/IECEX.**

Plastics Processing

“MVE” External Electric Motovibrators



Technical Features / Performance ▼

- ▶ Aluminium casing up to size 50 (included), cast iron from size 60
- ▶ SKF bearings
- ▶ Operating temperature: -20° C to 40° C (-4° F to 104° F)
- ▶ Standard voltage: 230/400 V, 50 Hz (264/460 V, 60 Hz)
- ▶ 750 - 1,000 - 1,500 - 3,000 R.P.M.
(900 – 1,200 – 1,800 – 3,000 R.P.M.)
- ▶ Motor protection: IP 66-NEMA 4
- ▶ Continuous duty: S1
- ▶ Insulation class: F
- ▶ Standard: ATEX Ex II 3D CERTIFIED
- ▶ Standard: ETL (UL-CSA) Class II Div.2
- ▶ ATEX Exe II 2 GD increased safety range available
- ▶ Explosion-proof range available

Overall Dimensions ▼

TYPE	Dimensional Features																
	FIG.	Size	C		M		A	B	Ø G	Holes	D	E	F	H	I	L	N
			(mm)		(mm)		(mm)	(mm)	(mm)	No.	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
			50Hz	60Hz	50Hz	60Hz											
MVE 60/3	A	10	211		45	*	*	*	4	130	136	12	48	94	121		85
MVE 100/3	A	10	211		45	*	*	*	4	130	136	12	48	94	121		85
MVE 200/3	B	20	219		41	62-74	106	9	4	131	159	15	64	121	123		112
MVE 202/3	G	23	218		53	**	**	**	4	164	140	25	82	116	159		110
MVE 300/3	C	30	260		43	***	***	***	4	154	175	15	79	142	163		131
MVE 400/3	C	30	260		43	***	***	***	4	154	175	15	79	142	163		131
MVE 500/3	D	40	338		75	105	140	13	4	168	196	22	92	169	178		158
MVE 700/3	D	40	338		75	105	140	13	4	168	196	22	92	169	178		158
MVE 800/3	D	50	311		47	120	170	17	4	208	210	22	94	180	205		170
MVE 1200/3	D	50	311		47	120	170	17	4	208	210	22	94	180	205		170

Fig A

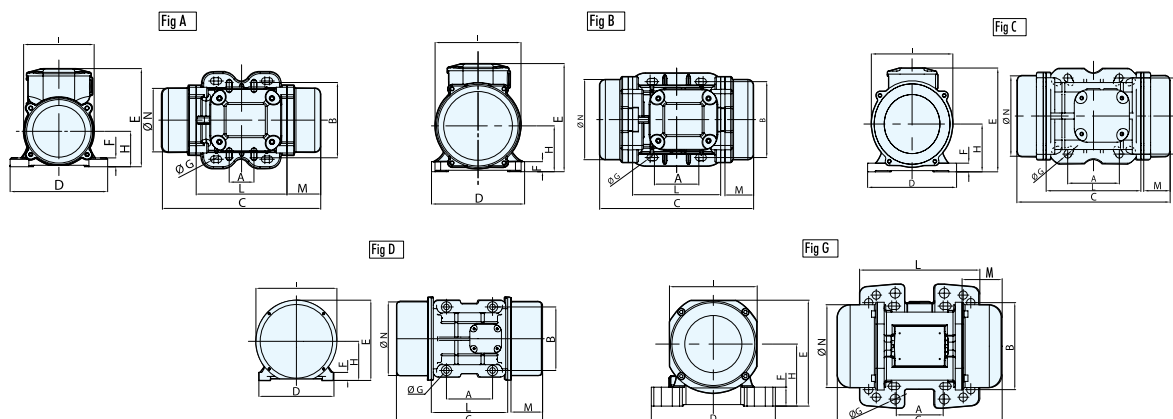
A	B	Ø G
mm	mm	mm
62 - 74	106	9
33	83-102	7

Fig G

A	B	Ø G
mm	mm	mm
62 - 74	106	9
65	140	13
115	135	11
135	115	11

Fig C

A	B	Ø G
mm	mm	mm
80	110	11
90	125	13
124	110	11
135	115	11



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

Plastics Processing

“VB” Vibrating Bin Aerators

10



Description ▼

“VB” Vibrating Bin Aerators (VBE, VBI, VBM) combine product aeration under operating pressure reaching 6 bar (87 PSI) with an additional slight vibration on the silo wall (see data sheet for sizing, positioning and number of aerators). Due to its design damage of the silo is impossible even with abrasive materials. An additional backstop valve is not required as, due to the work pressure of 2 to 6 bar (29-87 PSI), no material can enter the zone beneath the elastic FDA-approved silicon lip. OLI® Vibrating Bin Aerators are used for the improvement of mass flow with powders and granular materials. A stainless steel shaft version (VDI) is available.

Function ▼

Compressed air is introduced into the stored material through the silicon lip which adheres to the inside silo wall. By varying the operating pressure within a range between 2 and 6 bar (29 to 87 PSI) the intensity of vibration of the elastic silicon lip can be changed. Due to interval operation and a maximum operation time of 5 seconds air consumption is very low.



Application ▼

VB Vibrating Bin Aerators are used in all types of **powder** processing plants where flow aids are required.

Typical applications are compounding or masterbatch lines.

VB are fitted on **storage silos or storage, weigh or feeding hoppers.**

Benefits ▼

- ✓ **Two combined effects: vibration and aeration;**
- ✓ **No damage on bin structure;**
- ✓ **Suitable for non hygroscopic powdery or granular materials;**
- ✓ **Sturdy design;**
- ✓ **Self-cleaning;**
- ✓ **Abrasion-resistant;**
- ✓ **Durable;**
- ✓ **Easy to install;**
- ✓ **Maintenance-free.**

Plastics Processing

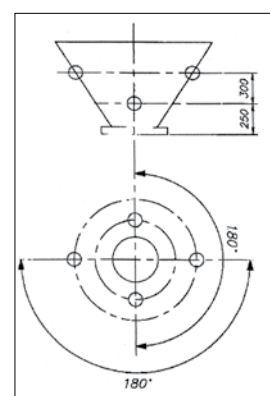
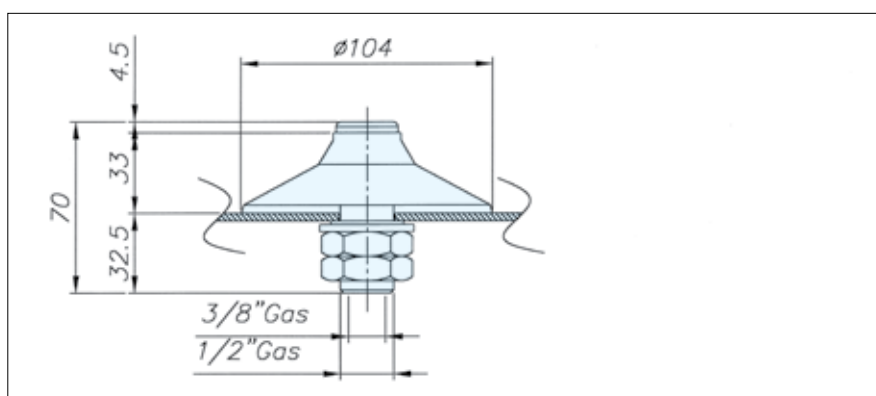
“VB” Vibrating Bin Aerators



Technical Features / Performance ▼

- ▶ Aluminum “anticorodal” shaft (304 stainless steel on request – VBI-Type)
- ▶ Vibrating silicon membrane (FDA-approved)
- ▶ EPDM seal
- ▶ ½” Washer (galvanised steel)
- ▶ 2 nickel-plated brass ½” hexagonal nuts
- ▶ Operating temperature: -40° C to 170° C (-40° F to 340° F)
- ▶ Operating pressure: 2 to 6 bar (29 to 87 PSI)

Overall Dimensions ▼



	Max. Air Consumption					
	2 bar (29 psi)		4 bar (58 psi)		6 bar (87 psi)	
	l / min	cfm	l / min	cfm	l / min	cfm
VB	100	3.53	150	5.29	250	8.82
VBE	100	3.53	150	5.29	250	8.82
VBM	70	2.47	90	3.17	120	4.23

Plastics Processing

BELLOJET® ZA

Tanker Loading Bellows With Built-In Dust Filter



11



Description ▼

BELLOJET® ZA Loading Bellows are used for efficient, dust-controlled loading of dry, dusty bulk solids into tankers. The spouts are provided with inner tapered cones to contain the flow of material and an outer double bellow to provide for dust removal. At the lower end of the Loading Bellow, a polymer-coated SINT® cone with special sealing properties is provided for connection to the tanker. The BELLOJET® dust filtration system, which includes 8 cartridges to provide an overall surface area of 10m² (108 sq ft), is equipped with a 2.2 kW (3.0 HP) fan.

Function ▼

First the Loading Bellow is lowered from the stand-by position towards the inlet spout of the tanker. As soon as the bellow outlet cone has settled on the inlet spout of the tanker, the slack cable switch mounted outside the transmission box stops lowering of the bellows. The limit switch inside the transmission box stops both full extension and contraction of the bellows. Material loading is started by opening the silo outlet valve. During the filling of the tanker, the polymer SINT® coating of the outlet cone acts as a perfect dust seal. At the same time the filter fan continuously sucks dust through the external bellows into the integrated filter cartridges in the upper section of the unit and exhausts excess air. A slack cable switch activates further extension of the bellows as the tanker lowers under the increasing material weight. A level monitoring device installed in the centre of the outlet cone signals maximum material level in the tanker compartment and orders immediate closing of the silo outlet valve. Contraction of the bellows back to stand-by position starts after a delay of approximately 10 seconds in order to allow the filter to evacuate the remaining dust. Once the bellow is fully contracted, the cable limit switch inside the transmission box stops operation. The preset after shut-down cleaning cycle now provides for additional pulse jet cleaning of the filter cartridges for another 10 minutes.



Applications ▼

BELLOJET® ZA Telescopic Loading Bellows are suitable for continuous loading at a maximum flow rate of 250m³/h (147 cfm) of bulk material. The outlet can be equipped with an anti-spillage device which acts as a dustproof stopper as the Loading Bellow is being raised. The equipment features an electric winch. The fan of the BELLOJET® dust filtration system increases the efficiency of the filtering elements. Due to an after-shutdown-cleaning-cycle, the filter elements are always in perfect condition at the start of each new loading.

Benefits ▼

- ✓ **No product contamination thanks to the following features:**
 - Double bellows which keeps the falling material separate from the dust
 - 304/316 stainless steel contact parts
 - White colour food-grade polyester internal/external chutes
 - Built-in filter unit which recycles the dust extracted into the tanker
 - ATEX zone 22 certification
 - Built-in dust filter reduces dust emission during filling operation
- ✓ **Flexible chute in Neoprene covered by Hypalon® makes bellows weather-proof, highly abrasion and temperature-resistant and durable;**
- ✓ **Reverse cone with inside level indicator indicates when tanker is full, raises loading bellow gradually and improves material distribution inside the tanker;**
- ✓ **Outlet can be equipped with an anti-spillage device which acts as a dustproof stopper as the Loading Bellow is being raised and prevents that insects or birds enter inside the outlet;**
- ✓ **Two lifting cables outside the material flow raise and lower the loading bellow without any cable wear due to material friction and obstruction to material flow.**

Plastics Processing

BELLOJET® ZA

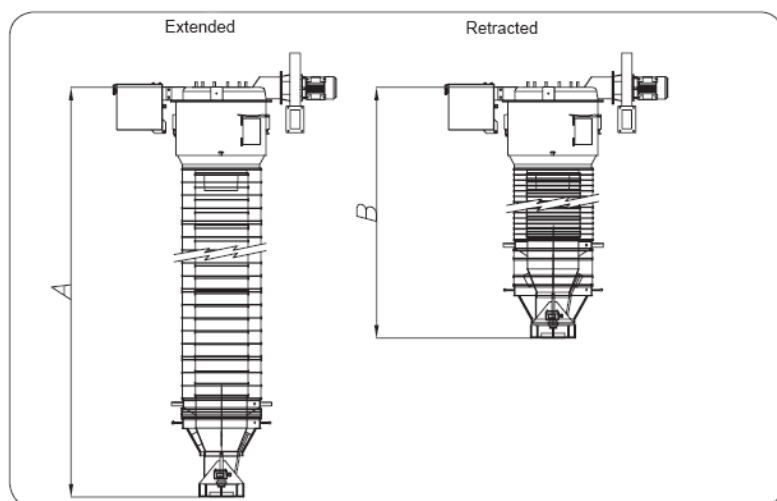
Tanker Loading Bellows With Built-In Dust Filter



Technical Features / Performance ▼

- ▶ Inlet diameter: 300mm (12 in)
- ▶ Maximum flow rate: 250 m³/h (147 cfm)
- ▶ Working Temperature: - 20 °C up to 120 °C (- 4° F to 248° F)
- ▶ Hoisting system equipped with an 0.55 kW electric motor and gear reducer with belt transmission.
- ▶ Upper/lower limit switch
- ▶ Slack cable limit switch
- ▶ Dust filtration system including 8 cartridges with polyester or antistatic media
- ▶ Filtering surface: 10 m² (108 sq ft)
- ▶ Dust suction fan equipped with an 2.2 kW (3.0 HP) electric motor
- ▶ Electronic filter cleaning panel
- ▶ Fabricated parts in carbon steel or 304/316 stainless steel
- ▶ Bellows manufactured from Neoprene/Hypalon® or white colour food-grade polyester
- ▶ Double bellows with optional internal steel cones for granules
- ▶ Rubber bottom outlet cone to ensure a perfect sealing of the tanker hatch
- ▶ Control panel with remote control for fully automatic operation
- ▶ Available with rotary level indicator or vibrating level indicator
- ▶ Anti-spillage device on outlet
- ▶ - 2 external hoisting cables

Overall Dimensions ▼



* = Order Form

*	A _{max} [mm]	B _{min} [mm]	[kg]
05	2050	1550	303
07	2330	1590	305
10	2630	1630	308
12	2810	1650	309
15	3110	1690	311
17	3390	1720	313
20	3590	1750	315
22	3870	1780	317
25	4170	1820	319
27	4450	1850	322
30	4730	1890	324
32	5030	1930	326
35	5310	1960	328

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

Plastics Processing

ZG Tanker Loading Bellows

12



Description ▼

ZG Loading Bellows are used for efficient, dust-controlled loading of dry, dusty bulk solids into tankers. The spouts are provided with inner tapered cones to contain the flow of material and an outer double bellow to provide for dust removal. At the lower end of the Loading Bellow, a polymer-coated SINT® cone with special sealing properties is provided for connection to the tanker.

Function ▼

First the Loading Bellow is lowered from the stand-by position towards the inlet spout of the tanker. As soon as the bellow outlet cone has settled on the inlet spout of the tanker, the slack cable switch mounted outside the transmission box stops lowering of the bellows. The limit switch inside the transmission box stops both full extension and contraction of the bellows. Material loading is started by opening the silo outlet valve.

During the filling of the tanker, the polymer SINT® coating of the outlet cone acts as a perfect dust seal. At the same time the filter fan continuously sucks dust through the external bellows into the integrated filter cartridges in the upper section of the unit and exhausts excess air. A slack cable switch activates further extension of the bellows as the tanker lowers under the increasing material weight. A level monitoring device installed in the centre of the outlet cone signals maximum material level in the tanker compartment and orders immediate closing of the silo outlet valve. Contraction of the bellows back to stand-by position starts after a delay of approximately 10 seconds in order to allow the filter to evacuate the remaining dust. Once the bellow is fully contracted, the cable limit switch inside the transmission box stops operation. The preset after shut-down cleaning cycle now provides for additional pulse jet cleaning of the filter cartridges for another 10 minutes.



Applications ▼

ZG Telescopic Loading Bellows are suitable for continuous loading with a maximum flow rate of 250m³/h (147 cfm) of bulk material.

The outlet can be equipped with an anti-spillage device which acts as a dustproof stopper as the Loading Bellow is being raised. The equipment features a manual or an electric winch.

A spigot on the header can be connected on site to an external de-dusting filter.

Benefits ▼

- ✓ **No product contamination thanks to:**
 - Double bellows which keep the falling material separate from the dust
 - 304/316 stainless steel contact parts
 - White colour food-grade polyester internal/external chutes
- ✓ **ATEX zone 22 certification;**
- ✓ **Flexible chute in Neoprene covered by Hypalon® makes bellows weather-proof, highly abrasion and temperature-resistant and durable;**
- ✓ **Reverse cone with inside level indicator indicates when tanker is full, raises loading bellows gradually, thus improving material distribution inside the tanker;**
- ✓ **Outlet can be equipped with an anti-spillage device which acts as a dustproof stopper as the Loading Bellow is being raised and prevents that insects or birds enter inside the outlet;**
- ✓ **2 lifting cables outside the material flow raise and lower the loading bellows without any cable wear due to material friction and obstruction to material flow.**



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Plastics Processing

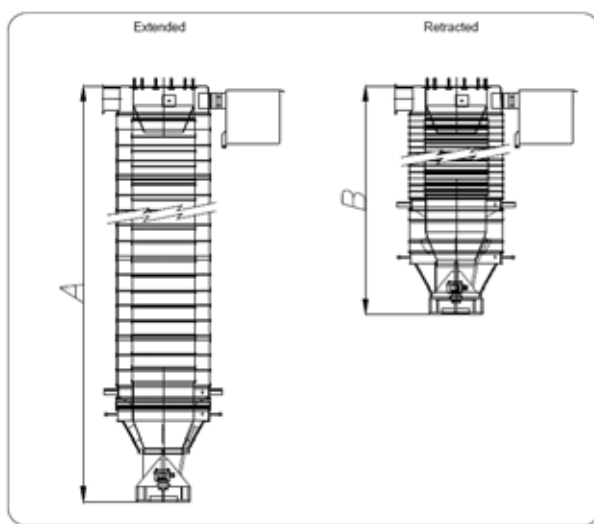
ZG Tanker Loading Bellows



Technical Features / Performance ▼

- ▶ Inlet diameter: 300mm (12 in)
- ▶ Maximum flow rate: 250 m³/h (147 cfm)
- ▶ Working Temperature: - 20 °C up to 120 °C (- 4° F to 248° F)
- ▶ Hoisting system equipped with an 0.55 kW electric motor and gear reducer with belt transmission
- ▶ Upper/lower limit switch
- ▶ Slack cable limit switch
- ▶ Fabricated parts in carbon steel or 304/316 stainless steel
- ▶ Bellows manufactured from Neoprene/Hypalon® or white colour food-grade polyester
- ▶ Double bellows with optional internal steel cones for granules
- ▶ Rubber bottom outlet cone to ensure a perfect sealing of the tanker hatch
- ▶ Control panel with remote control for fully automatic operation
- ▶ Available with rotary level indicator or vibrating level indicator
- ▶ Anti-spillage device on outlet
- ▶ 2 external hoisting cables

Overall Dimensions ▼



* = Order Form
S = Weight with single bellows
D = Weight with double bellows

*	A _{max} [mm]	B _{min} [mm]	S [kg]	D [kg]
05	1610	1100	183	205
07	1890	1140	184	207
10	2190	1170	185	210
12	2370	1200	186	211
15	2670	1230	188	213
17	2950	1270	189	215
20	3150	1290	190	217
22	3430	1330	191	219
25	3730	1370	192	221
27	4010	1400	193	224
30	4290	1440	195	226
32	4590	1470	196	228
35	4870	1510	197	230
37	5170	1540	198	233
40	5710	1740	205	231
42	5990	1770	206	233
45	6290	1800	207	235
47	6590	1840	208	237
50	6870	1880	209	239
52	7150	1910	210	241
55	7340	1940	211	243
57	7710	1980	212	245
60	8010	2020	213	247

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



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Plastics Processing

ILT Rotary Level Indicators

13



Description ▼

ILT-type Bin Level Indicators have been designed for electric signalling by rotary action of minimum or maximum material level inside bins, hoppers or silos.

Function ▼

As long as material is present, the paddle of the ILT Bin Level Indicator does not rotate. As soon as the material level sinks below the paddle radius, rotation restarts activating other system components. The top or side-mounted indicators are commonly used for materials having a bulk density ranging between 0.5t/m^3 (0.02 lb per cu in) and 2t/m^3 (0.08 lb per cu in).



Applications ▼

Typically ILT Rotary Level Indicators are fitted on the vertical walls of a bin, silo or hopper at the desired maximum or minimum level. Equipped with an extension rod, they can also be mounted vertically into the roof plate.

Benefits ▼

- ✓ No product contamination due to the 304 stainless steel shaft; and measuring paddle and non-toxic plastic fittings;
- ✓ No product contact with the casing;
- ✓ Zone 20 /21 ATEX-certified;
- ✓ Adjustable via reset of force spring in 3 positions;
- ✓ Double threaded fitting ensures system compatibility;
- ✓ Use with different materials in one single configuration;
- ✓ Easy and quick installation and replacement;
- ✓ Compact overall dimensions;
- ✓ Lightweight due to casing in aluminium alloy;
- ✓ Maintenance-free;
- ✓ Cost-effective.



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Plastics Processing

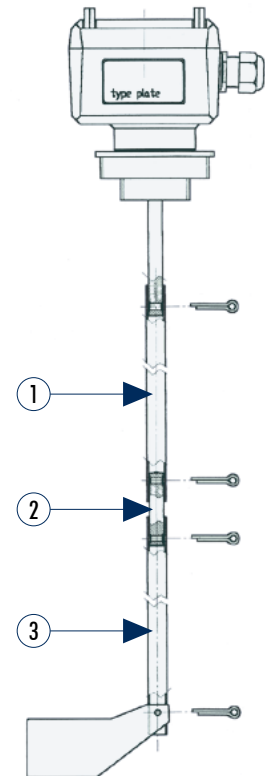
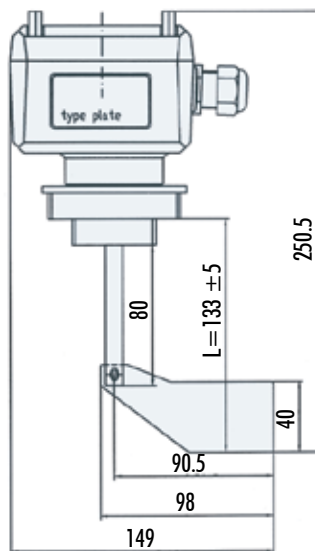
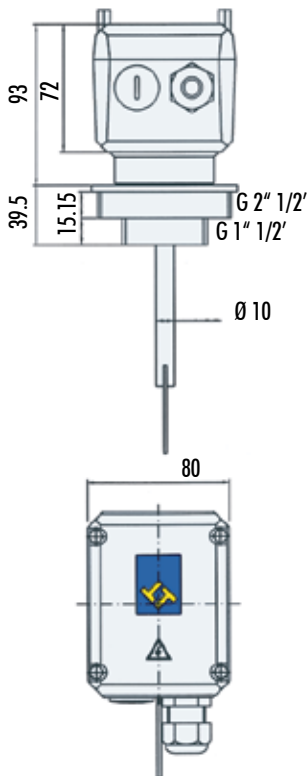
ILT Rotary Level Indicators



Technical Features / Performance ▼

- ▶ Voltages available: 24 V – 48 V (AC), 50-60 Hz;
110 V – 230 V (AC), 50-60 Hz; 24 V (DC)
- ▶ Signal output: Floating microswitch AC max. 250 V, 2 A
- ▶ Standard connection: thread G 1½" – G 2½"
- ▶ Enclosure: IP 66
- ▶ Working temperature inside vessel:
- 20 °C to 80 °C (- 4° F to 178° F)
- ▶ Vessel maximum pressure: max. 0.8 bar (12 PSI)
- ▶ Threaded fittings material: Plastic
- ▶ Rotating shaft and measuring paddle material: 304 stainless steel
- ▶ Casing material: Aluminium alloy
- ▶ Speed of measuring paddle: 1 rpm
- ▶ Friction clutch protection of the gearing of impacts of the measuring paddle
- ▶ Self-opening double paddle for light materials
- ▶ Flanged connection as option
- ▶ Modular shaft extension up to 3 metres (10 ft)
- ▶ External light

Overall Dimensions ▼



1: L = 500 / 1000

Plastics Processing

RV-RVR Drop-Through Rotary Valves



14



Description ▼

RV Drop-Through Rotary Valves consist of a tubular cast iron or stainless steel casing, a horizontally mounted rotor with a certain number of V-shaped cross section compartments, a drive unit and a casing cover opposite the drive end.

Function ▼

RV Rotary Valves have been developed for maximum versatility in application. They are suitable for controlled discharging and feeding of powdery or granular materials from silos, hoppers, pneumatic conveying systems, bag filter houses, or cyclones.



Applications ▼

RV-RVR Rotary valves are fitted at the outlet of silos, bins or hoppers for feeding the discharged material with high accuracy into the downstream process. In negative pressure applications they are fitted on screw conveyor outlets to prevent suction.

Benefits ▼

- ✓ No product contamination due to the 304/316 stainless steel design and air blown sealing;
- ✓ Zone 22 ATEX-certified;
- ✓ Square or round flanges ensure system compatibility and match with WAM® flanges;
- ✓ 304 stainless steel insert for granules;
- ✓ Cast iron or 304/316 SS, nickel coating, as well as various rotor versions available to ensure the most appropriate configuration for application requirements;
- ✓ Quick integration into the process thanks to light weight easy handling;
- ✓ Modular design and easy maintenance thanks to small numbers of components.

Plastics Processing

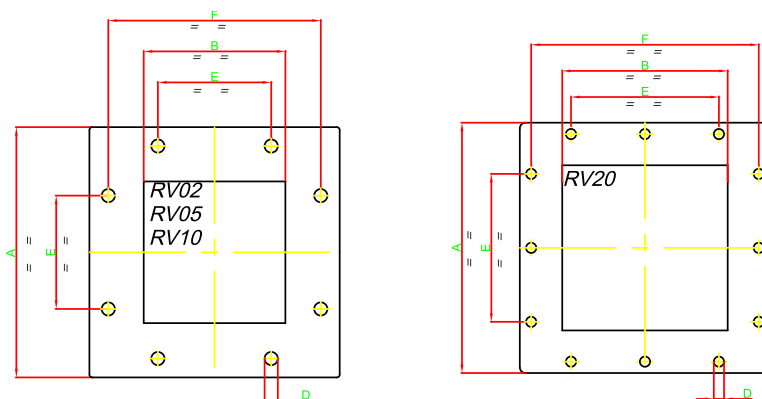
RV-RVR Drop-Through Rotary Valves



Technical Features / Performance ▼

- ▶ Capacity: 2.2 to 19.5 litres per revolution (0.08 to 0.7 cu ft per revolution)
- ▶ Working temperature: - 20° C to 150° C (- 4° F to 300° F)
- ▶ Maximum differential pressure: 0.3 bar (4.4 PSI)
- ▶ Cast iron or 304/316 SS design
- ▶ Nickel coating available
- ▶ Rotor with chamfered blades available
- ▶ Easy access to internal mechanical parts
- ▶ Sturdy compact structure
- ▶ Small footprint
- ▶ Drive unit mounted directly on shaft without further bearing assembly or coupling
- ▶ Square or round flanges and inlet spouts
- ▶ Compatibility with WAM® standard flanges on inlet and outlet
- ▶ Different materials and treatments available depending on material handled

Overall Dimensions ▼



Type	A	B	C	D	E	VLQ-VLC-XBQ
RV02	265	150	230	12,5	/	150
RV05	320	200	280	12,5	93,3	200
RV10	375	250	330	12,5	110	250
RV20	440	300	385	12,5	128,3	300

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RVR

Standard Flange Drilling					
TYPE	A1	K	Ø	M	α
RV/RVR 02	285	240	160	8 x Ø 14	22.5°
RV/RVR 05	340	295	200	8 x Ø 14	22.5°
RV/RVR 10	406	350	265	12 x Ø 14	30°
RV/RVR 20	445	400	300	12 x Ø 18	15°

RV + RVR

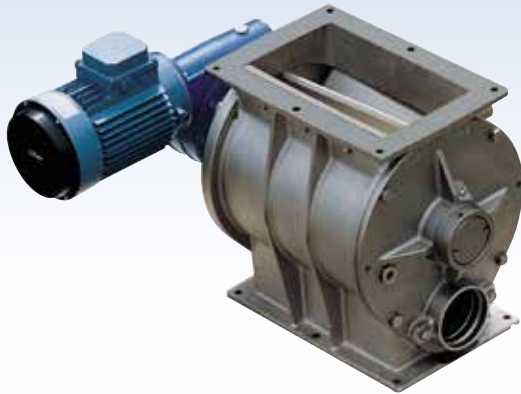
TYPE	D*	F*	H*		Rating kW
			RV	RVR	
RV/RVR 02 10 rpm	287	368	233	248	0.37
RV/RVR 05 10 rpm	321		263	288	
RV/RVR 10 10 rpm	367				
RV/RVR 20 10 rpm	395	454	352		0.55
			400		0.75

Plastics Processing

RVS Blow-Through Rotary Valves



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Description ▼

RVS Blow-Through Rotary Valves consist of a tubular cast iron or stainless steel casing, a horizontally mounted rotor with a certain number of oblique V-shaped cross section compartments, a drive unit and a casing cover at each end.

Function ▼

Two compartments at a time of the continuously turning rotor are filled up with material through the inlet at the top of the Rotary Valve. After less than half a turn the material falls through the bottom opening into an air stream passing through a pneumatic conveying duct connected with the bottom part of the Rotary Valve.



Applications ▼

RVS Blow-Through Rotary Valves are usually fitted at the outlet of a bin, silo or hopper upstream of a pneumatic conveying duct into which they accurately feed the material.

Benefits ▼

- ✓ No product contamination due to the 304/316 SS construction and air-injected seals;
- ✓ Zone 22 ATEX-certified;
- ✓ 304 SS insert for granules;
- ✓ Cast iron or 304/316 SS construction material, nickel coating and various other rotor versions available to offer the best configuration for most application requirements;
- ✓ Pipe connections already included simplify unit installation and removal.

Plastics Processing

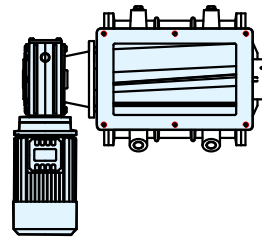
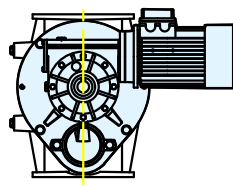
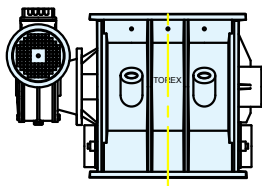
RVS Blow-Through Rotary Valves



Technical Features / Performance ▼

- ▶ Feed rates: 5, 9, 14, 20, 38 litres per revolution (0.17, 0.3, 0.5, 0.7, 1.3 cu ft per revolution)
- ▶ Working temperature: -20 °C to 150 °C (-4° F to 240° F)
- ▶ Maximum differential pressure: 0.8 bar (11.6 PSI)
- ▶ Cast iron or 304/316 SS construction
- ▶ Nickel coating available
- ▶ Rotor with chamfered blades
- ▶ Easy access to internal mechanical parts
- ▶ Sturdy compact structure
- ▶ Small footprint
- ▶ Drive unit mounted directly on shaft without any further bearing assembly or coupling
- ▶ Rectangular inlet flanges
- ▶ Counterflanges to be welded on pneumatic duct to ease rotor movement
- ▶ Blade scraper installed inside the inlet
- ▶ Different construction materials and treatments available depending on material handled

Overall Dimensions ▼



Dimensions in mm									Motor	
	Type	Q1	Q2	Q3	R1	R2	R3	H	kW	min-l
30 RPM	RVS/C35	890	558	332	740	217	523	530	2,2	1400
	RVS/C20	705	444	261	608	181	426	447	1,5	1400
	RVS/C15	605	390	215	588	162	426	399	1,1	1400
	RVS/C10	572	372	200	560	140	420	339	0,75	1400
	RVS/C05	505	342	163	550	130	420	335	0,55	1400

Dimensions in mm									Motor	
	Type	Q1	Q2	Q3	R1	R2	R3	H	kW	min-l
20 RPM	RVS/C35	890	558	332	740	217	523	530	1,5	900
	RVS/C20	705	444	261	608	181	426	447	1,1	900
	RVS/C15	605	390	215	588	162	426	399	0,75	900
	RVS/C10	572	372	200	560	140	420	339	0,55	900
	RVS/C05	505	342	163	550	130	420	335	0,55	900

Dimensions in mm									Motor		Pre-Torque
	Type	Q1	Q2	Q3	R1	R2	R3	H	kW	min-l	
10 RPM	RVS/C35	890	558	332	740	217	523	530	1,1	900	NO
	RVS/C20	658	397	261	591	181	410	447	0,75	1400	YES
	RVS/C15	585	370	215	572	162	410	399	0,55	1400	YES
	RVS/C10	542	342	200	527	140	387	339	0,37	1400	YES
	RVS/C05	475	342	163	517	130	387	335	0,37	1400	YES

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

Plastics Processing

VAR Diverter Valves

16



Description ▼

The VAR Diverter Valves consist of a cast aluminium body and cover and a rotary inner drum which closes one of the two outlet pipes as required.

The rotation of the inner drum is brought about by means of a pneumatic actuator.

The inner sealing is ensured by pneumatically inflatable gaskets.

Function ▼

The VAR Diverter Valves are suitable for conveying any kind of material, both in powder and granular form.

The pneumatic actuator which activates the inner rotary drum makes it possible to switch the outlet pipe and thereby divert the flow of material from one duct to another one.



Applications ▼

The VAR Diverter Valves are fitted directly to the pneumatic conveying ducts whenever is needed to switch the flow of material to different production lines.

Benefits ▼

- ✓ No contamination due to the 304 stainless steel contact parts inserts;
- ✓ Minimum pressure drop thanks to inflatable seal;
- ✓ Minimum friction during switching operations thanks to inflatable seal;
- ✓ ATEX-compliant pneumatic actuator and solenoid Valves;
- ✓ Use with different materials in a one configuration only;
- ✓ Quick integration into the process thanks to its light weight and easy handling;
- ✓ Modular design and easy maintenance thanks to small numbers of components.

Plastics Processing

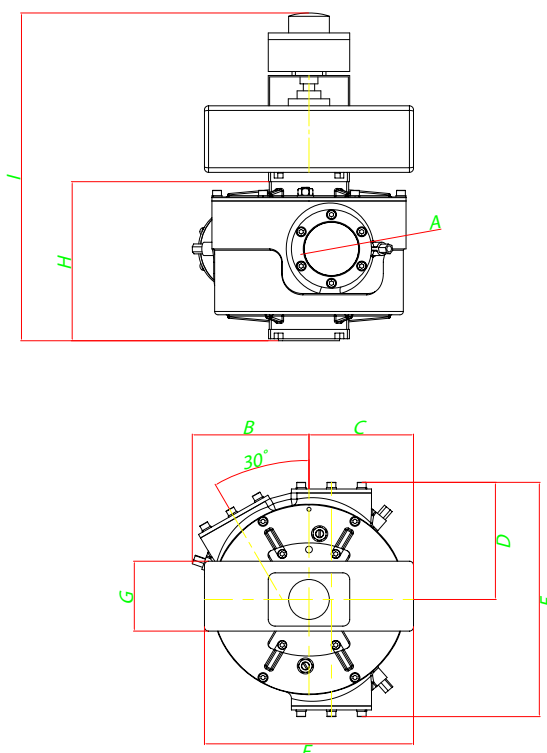
VAR Diverter Valves



Technical Features / Performance ▼

- ▶ Basic structure made from cast aluminium
- ▶ Operating temperature: -20° C to 80° C (-4° F to 180° F)
- ▶ Diverter operating pressure: max. 3.5 bar (36 PSI)
- ▶ Inflatable seal closure pressure: max. 4 bar (58 PSI)
- ▶ Pneumatic actuator activation pressure: max. 8 bar (116 PSI)
- ▶ Range comprising diameters from 80mm to 150mm (3 to 6 in)
- ▶ Micro-switch box for signalling actuator position
- ▶ Electro-pneumatic actuator with possibility of different supply voltages 24/48/110/230 V AC

Overall Dimensions ▼



Type	A	B	C	D	E	F	G	H	I	kg
80	80	172	154	176	352	338	106	239	488	30
100	100	198	169	218	436	338	106	265	514	40
125	125	229	192	249	498	384	123	351	613	60
150	150	260	192	278	556	384	123	383	645	78
175	175	310	266	321	642	532	148	421	725	115

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

Plastics Processing

VM Pinch Valves

17



Description ▼

The body of the VM Pinch Valve is manufactured from aluminium alloy. The sleeves are made from fabric-reinforced NR or NBR. The sleeve support bushes are either made from aluminium alloy or 304/316 stainless steel.

Function ▼

VM-type Pinch Valves are used for interception of the material flow in pneumatic conveying systems, or other pipelines. They can be also installed as a locking device for silo filling pipes.

In the open position the internal cross section of the valve is identical with the connecting pipe diameter. By introducing compressed air or, especially with small valves, water under pressure through the threaded bore into the interior of the valve, the internal flexible sleeve is reshaped in such a way that the passage is hermetically sealed. VM Pinch Valves equally handle pneumatically conveyed powders, granules, fibres, dense mixtures and liquids.



Applications ▼

VM Pinch Valves equally handle pneumatically conveyed powders, granules, fibres, dense mixtures and liquids. They are fitted directly to the pneumatic conveying ducts whenever is needed to switch the flow of material to different production lines.

Benefits ▼

- ✓ No product contamination due to the 304/316 SS sleeve support bushes and white colour NBR sleeve;
- ✓ Zone 22 ATEX-certified;
- ✓ Full bore-through passage without any pressure loss and stagnation points;
- ✓ No product contact with the body;
- ✓ Particularly low air consumption;
- ✓ Easy and quick sleeve and bush replacement;
- ✓ Sleeves in fabric-reinforced NR or NBR;
- ✓ Compact overall dimensions;
- ✓ Lightweight due to the valve body made from aluminium alloy;
- ✓ No maintenance required except for periodic replacement of the sleeve and the bushes.



TOREX®



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Plastics Processing

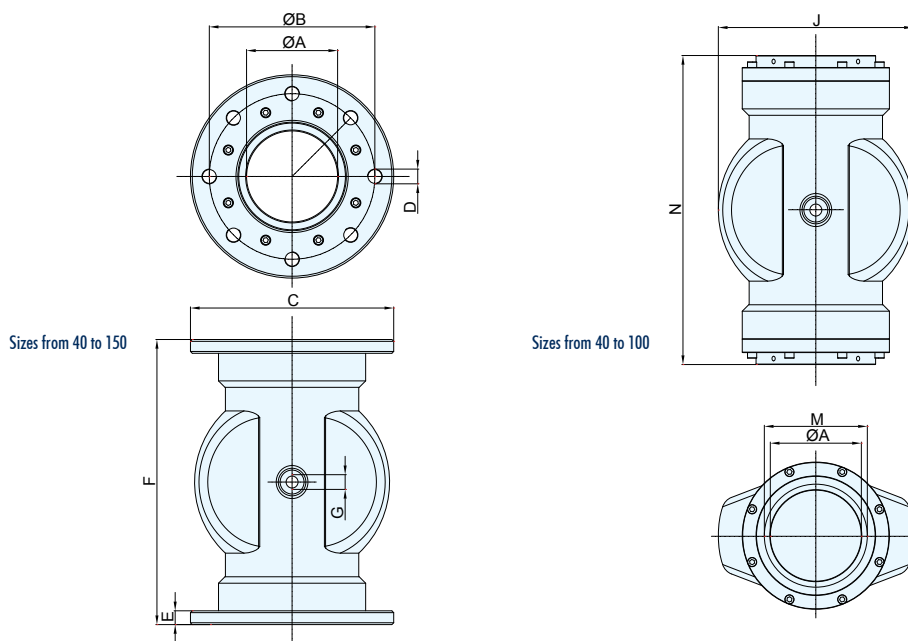
VM Pinch Valves



Technical Features / Performance ▼

- ▶ Passage diameter from 40mm to 150mm (1½ to 6 in)
- ▶ Maximum working pressure: 3.5 bar (52 PSI)
- ▶ Maximum inflation pressure: 6.0 bar (90 PSI)
- ▶ Recommended maximum differential pressure: 2.5 bar (37 PSI)
- ▶ Different sleeve materials suitable for product handled: NR or NBR
- ▶ Different connections
- ▶ Different types of bushes suitable for material handled: Aluminium alloy or 304/316 SS

Overall Dimensions ▼



TYPE	A	B	C	D		E	F	G	H	J	L	M	N	kg
				Ø	n°									
VM040	40	110	150	M 16	4	12	178	1/8"		99		1 + 1/2"	202	2.20
VM050	50	125	165	M 16	4	15	190	1/4"		120		2"	214	3.40
VM065	65	145	185	M 16	4	15	225	1/4"		138		2 + 1/2"	230	4.00
VM080	80	160	200	M 16	4	15	270	1/4"		180		3"	294	5.40
VM0100	100	180	220	M 16	8	15	310	1/4"		214		4"	334	7.60
VM0125	125	210	250	M 16	8	15	350	1/4"		250				10.20
VM0150	150	240	285	M 16	8	18	396	1/4"		285				15.60

Plastics Processing

VL Slide Valves

18



Description ▼

VL-type Slide Valves consist of a two-piece carbon or stainless steel frame, which is partly coated with WAM®'s unique SINT® engineering polymer composite, and a sliding blade manufactured either from the same material or from carbon or stainless steel. The use of SINT® engineering polymer composites considerably increases resistance to abrasion compared to traditional valves.

Function ▼

VL Slides Valves are used where flow of a bulk solid caused by gravity or transport has to be intercepted. Valves may be fitted to hopper or silo outlets, to the inlets and outlets of mechanical conveyors and to the inlet of telescopic loading spouts.



Applications ▼

The special geometry of the VL Slide Valves and the different options of blade design enable their application in virtually every type of powder, flakes or granular materials processing plants where interception of gravity-fed or pneumatically conveyed dry materials is required.

Typical applications are compounding, masterbatch, coating, extrusion or blow moulding lines.

They are fitted beneath hoppers, bins, silos, screw or other type conveyors.

Due to their special design and to the engineering materials used, they represent a particularly cost-effective yet most efficient solution.

Benefits ▼

- ✓ No contamination due to metal steel blade and valve frame coated with polymer material;
- ✓ Dust and granule-proof thanks to components geometry;
- ✓ Used with different materials in the same configuration;
- ✓ Safety for OEM and user thanks to ATEX certification zone 22;
- ✓ Easy integration into the process thanks to its light weight and easy handling;
- ✓ Modular design and easy maintenance thanks to small numbers of components;
- ✓ High flexibility and time-saving maintenance thanks to interchangeable components;
- ✓ Better performance thanks to friction-free contact design (actuator torque is not wasted in order to win friction resistance).

Plastics Processing

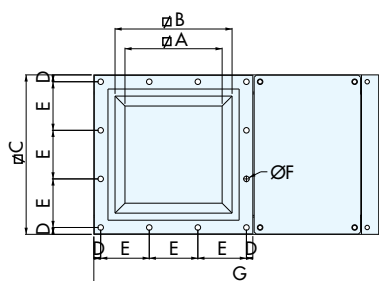
VL Slide Valves



Technical Features / Performance ▼

- ▶ Square (VLQ) or round (VLC) inlet from 150 to 400mm (6 to 16 in)
- ▶ Rectangular inlet for size 300mm (12 in)
- ▶ Dust and granular-proof and max. temperature of 80°C (176 F°)
- ▶ Blade and frame in carbon or stainless steel
- ▶ Absence of residue points
- ▶ Friction-free contact design
- ▶ Small number of components
- ▶ Easy part replacement
- ▶ Safe sealing with no additional measures due to the all-round dustproof seal lips incorporated in the polymer coating

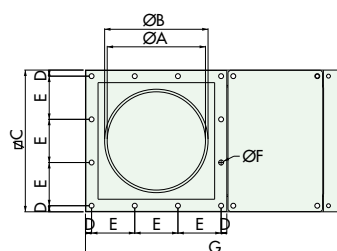
Overall Dimensions ▼



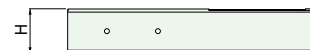
VLQ



Type	A	B	C	D	E	N°E	Ø F	Bolts	G	H	kg
VLQ0150..	120	175	261	15.5	115.0	2	12.5	M10	455	113	14
VLQ0200..	170	225	311	15.5	93.3	3	12.5	M10	555	113	18
VLQ0250..	220	275	361	15.5	110.0	3	12.5	M10	650	113	22
VLQ0300..	270	325	431	23.0	128.3	3	12.5	M10	765	113	30
VLQ0350..	320	375	481	18.0	89.0	5	12.5	M10	900	125	40
VLQ0400..	370	425	531	15.5	100.0	5	12.5	M10	1,000	125	46



VLC



Type	A	Ø B	Ø C	D	E	N°E	Ø F	Screw	G	H	kg
VLC0150..	150	165	261	15.5	115.0	2	12.5	M10	455	113	14
VLC0200..	200	215	311	15.5	93.3	3	12.5	M10	555	113	18
VLC0250..	250	265	361	15.5	110.0	3	12.5	M10	650	113	22
VLC0300..	300	315	431	23.0	128.3	3	12.5	M10	765	113	30
VLC0350..	350	365	481	18.0	89.0	5	12.5	M10	900	125	40
VLC0400..	400	415	531	15.5	100.0	5	12.5	M10	1,000	125	46



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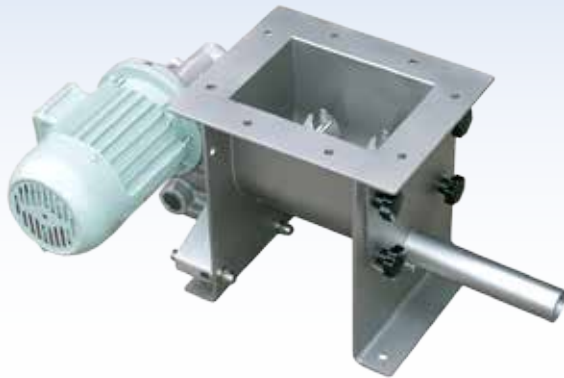
This datasheet might not show the complete range but only the models most suitable for the application.

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Plastics Processing

Micro-Batch Feeders MBF-310

19



Description ▼

The MBF-310 Micro-Batch Feeder for continuous volumetric feeding of powdery or granular materials consists of a casing entirely manufactured from stainless steel, a horizontally mounted rotating agitator tool, a feeder screw beneath the agitator tool, a feeder pipe enclosing the protruding feeder screw, one drive unit each for agitator and feeder screw.

Function ▼

MBF-310 Micro-Batch Feeders for feeding of powdery and granular materials are particularly suitable for poorly flowing materials which tend to clog, along with adhesive products.

Fed through a bag opening hopper, a bulk bag discharger, or another feeding device, the agitator tool manages to keep the material flowing, reducing at the same time the possibility of formation of lumps or bridges.

The size of the material particles is of utmost importance when choosing the type of feeder screw. Poorly flowing materials with cohesion or bridging problems are homogeneously fed into the feeding zone by the blending or agitator shaft which is shaped according to the product properties.

Depending on the user's individual requirements, the MBF-310 Micro-Batch Feeder can be supplied with alternative feeder screws and blending tools and with various accessories.



Applications ▼

MBF-310, which come in various configurations, are suitable for feeding of granules, flake or powders.

Design flexibility enables feeding of resins, both in powdery or granular form, charges, fibres and additives.

Typical areas of application are compounding and masterbatch lines, coating, extrusion and blow moulding.

Typical positions within the plant are on weighing scales for loss-in-weight installations next to the extruder, granulator or compounding system. Furthermore, they are positioned inside dosing stations on top of weighing scales upstream of turbo-mixers.

Benefits ▼

- ✓ Easy and quick internal clearing tank to quick-access inspection panel;
- ✓ Feeding of different additives with the same unit tank to interchangeability of components;
- ✓ Small number of parts makes maintenance easy and quick;
- ✓ Independent drives for agitator and feeder tool leave all options open in terms of drive power and tool speed;
- ✓ Maximum safety for OEM and user tank to ATEX-certification;
- ✓ High degree of homogeneity of fed material tank to blending/agitating tool;
- ✓ Easy integration into the plant;
- ✓ Process reliability tank to back-up by WAMGROUP® test labs.

Plastics Processing

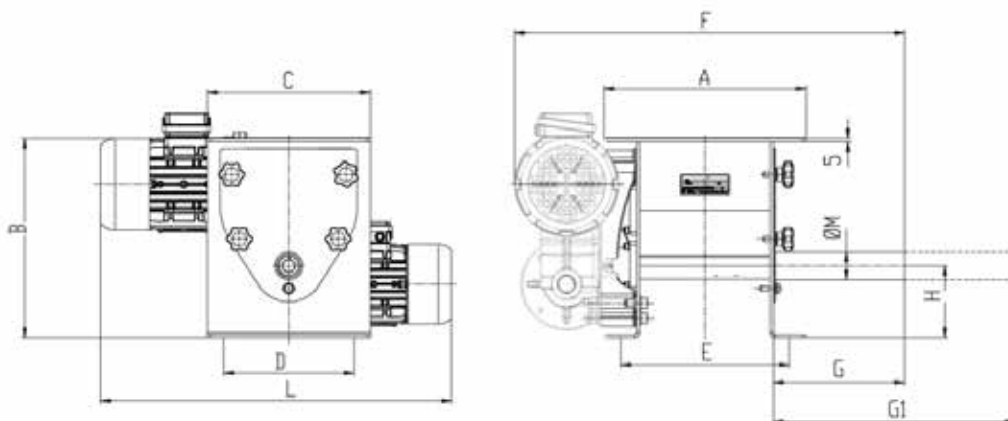
Micro-Batch Feeders MBF-310



Technical Features / Performance ▼

- ▶ Wide range of interchangeable machine components
- ▶ Suitable for powders, granules, fibres, flakes or ground materials
- ▶ Compact design, small footprint
- ▶ 3 sizes available with feed rates ranging from 3 dm³/h to 4,000 dm³/h
- ▶ Agitator and feeder tool with independent drives
- ▶ Internal geometry guarantees smooth feeding of particularly difficult materials
- ▶ No residue nests
- ▶ Quick-access inspection panel
- ▶ Contact surfaces in 304 SS (316 optional)
- ▶ Shaft sealing with grease lubrication system

Overall Dimensions ▼



MBF	A	B	C	D	E	F	G	G1	H	L	M	N	dm ³	kg
042	310	295	250	200	260	595	200	370	100	535	42	12,5	5	40
073	464	486	390	305	410	855	250	500	135	600	76	12,5	28	105
114	464	486	390	305	410	855	250	500	135	600	114	12,5	35	110

Dimensions in mm

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



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Plastics Processing

DVA-310 Diverter Valves

20



Description ▼

The DVA-310 Diverter Valve consists of a casing in stainless steel lined with SINT® engineering polymer and a flap in SINT® engineering polymer with a steel core. The flap is activated by a manual lever, or by a pneumatic or electric actuator.

Function ▼

DVA-310 is a Diverter Valve with one inlet and two outlets for the diversion of the flow of powdery or granular materials. The engineering materials used enable quick cleaning and maintenance apart from offering great resistance to abrasion.



Applications ▼

DVA-310 Diverter Valves are used in all types of flakes and granular material processing plants where diversion of gravity flow or of conveyed dry materials is required. Typical applications are at the end of compounding or masterbatch lines. DVA-310 are also installed on top of bag or bulk bag packaging lines

Benefits ▼

- ✓ **Contact between diverter flap and casing ensures dustproof sealing;**
- ✓ **Elastic outline of the SINT® flap guarantees material transport without particle breakdown, grinding or jamming;**
- ✓ **Use with different materials in the same configuration;**
- ✓ **Easy integration into the processes thanks to light weight and easy handling;**
- ✓ **Modular design and easy maintenance thanks to small numbers of components.**



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Plastics Processing

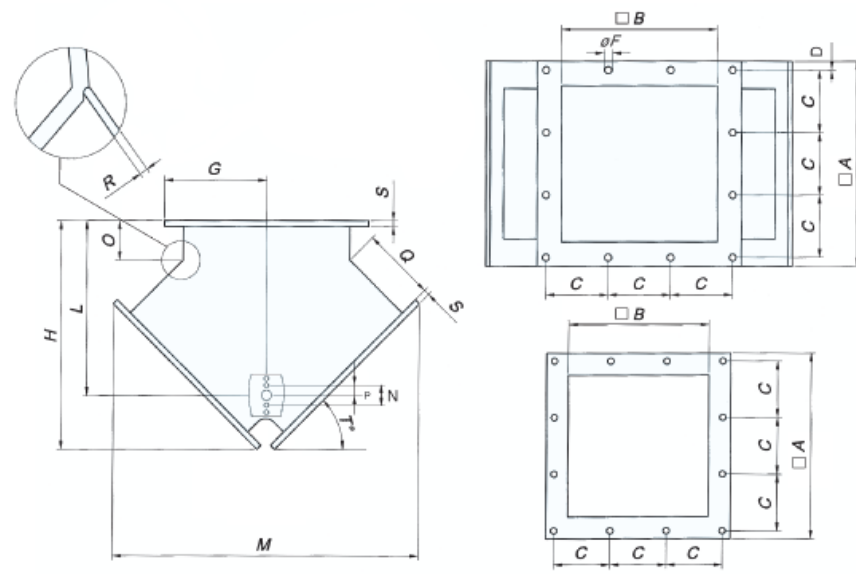
DVA-310 Diverter Valves



Technical Features / Performance ▼

- ▶ Range from 150mm to 300mm (6 to 12 in)
- ▶ Granule-proof at max. temperature of 80° C (176° F)
- ▶ Sturdy 304 stainless steel casing completely lined with non-stick, wear-resistant SINT® engineering polymer
- ▶ Flexible casing and flap
- ▶ Easy part replacement

Overall Dimensions ▼



TYPE	A	B	C	D	ØF	G	H	L	M	N	O	P	Q	R	S	T	kg
150	261	175	115	15	12.5	130.5	312	221	401	50	66	25	98	5	10	45°	12
200	311	225	93.3	15	12.5	155.5	358	267	472	50	66	25	114	5	10	45°	15
250	358	275	110	15	12.5	179	403	312	542	50	72	25	127	8	10	45°	19
300	433	325	128.3	24	12.5	216.5	465	358	645	50	66	25	152	8	10	45°	24

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



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Plastics Processing

VCP Spring-Loaded Pressure Relief Valves



21



Description ▼

VCP Pressure Relief Valves consist of a cylindrical casing with a bottom flange to be connected with a spigot welded on the silo roof, a disc shape inner steel lid for negative pressure operation held in position by a central spring rod, an outside steel ring for excess pressure kept in position by three spring rods, gaskets, and a weather protection cover.

Function ▼

In the VCP Pressure Relief Valve, helical springs keep the valve lids closed when the pressure value remains within the preset limits. The three outside spring rods keep the external ring-shaped lid firmly closed as long as the force generated by the pressure inside the silo does not overcome the spring force. Once the pressure exceeds the preset value the lid is pushed up and the pressure can escape. The smaller lid covers the central circular opening of the external lid from below. It is held in the middle by a single spring rod and is pressed onto the external lid by the normal air pressure inside the silo. In the event of suction pressure, the spring is compressed and allows the lid to drop. The air entering the silo from outside ensures rapid pressure balance and pushes the central lid back up into the "closed" position.



Applications ▼

VCP Pressure Relief Valves are the last resort when abnormal pressure conditions endanger the silo structure. This is why sudden excess or suction pressure inside the silo must be dealt with instantaneously. Even though ideally a Pressure Relief Valve should never have to go into action, it must be efficient and reliable if needed.

With tens of thousands of units installed worldwide, VCP Pressure Relief Valves have given evidence of being totally reliable under the most different conditions.

Benefits ▼

- ✓ Safety for OEM and users thanks to ATEX certification zone 21;
- ✓ No contamination due to metal steel discs and EPDM white seal;
- ✓ Used with different materials in the same configuration;
- ✓ Easy to handle and fit thanks to lightweight design and reduced overall dimensions;
- ✓ Quick maintenance due to few components;
- ✓ Easy maintenance thanks to small numbers of components.



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Plastics Processing

VCP Spring-Loaded Pressure Relief Valves

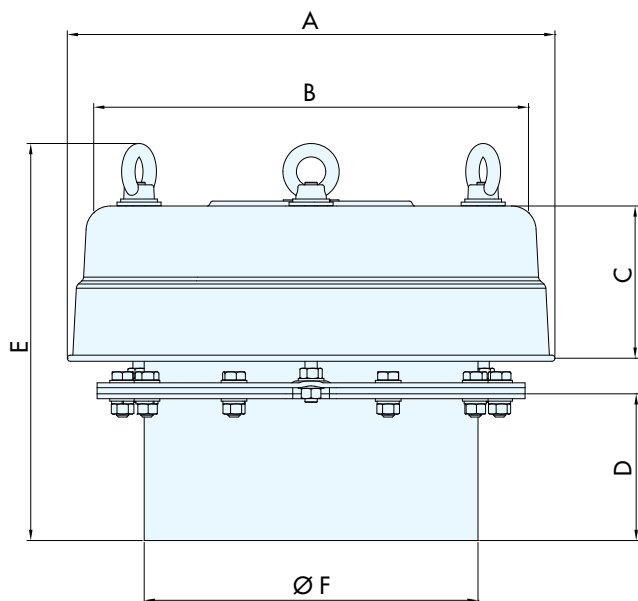


Technical Features / Performance ▼

- ▶ Carbon steel body (VCP...1C) painted RAL 7001 or 304 stainless steel body (VCP...2C)
- ▶ Size 273mm (11 in) and 356mm (14 in)
- ▶ Weather protection cover in stainless steel
- ▶ ATEX certification (zone 21) and HSE British Guidelines
- ▶ Air volume up to 13,000 m³/h (7,650 cfm)
- ▶ Setting range: overpressure from 300mm H₂O (0.44psi) up to 800mm H₂O (1.16 psi)
- ▶ Setting range: negative pressure from -50mm H₂O (0.07psi) up to -100mm H₂O (0.15psi)
- ▶ No welding seams inside
- ▶ Equipped for inductive signalling sensors
- ▶ Protective bellows for springs
- ▶ White seals for standard or no-contact-with-material applications
- ▶ Small number of components
- ▶ Easy part replacement
- ▶ Lightweight and easy to handle
- ▶ Interchangeable discs

Overall Dimensions ▼

	Size 273 MM	Size 375 MM
A	400	525
B	356	468
C	125	175
D	120	120
E	325	400
Ø F	273	356
kg	9.5	23



WAM®



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

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Plastics Processing

VFS Butterfly Valves

22



Description ▼

VFS Butterfly Valves consist of two high-pressure die-cast semi-bodies manufactured from aluminium alloy, a swivel disc in cast iron or stainless steel and a pre-stressed elastomer seal.

While V1FS has a top flange and a beaded bottom section suitable for the attachment of a flexible sleeve, the V2FS comes with an identical top and bottom flange.

Function ▼

For closing bins, hoppers and silos containing powders or granular materials, VFS Butterfly Valves are among the most widely used equipment worldwide.

What used to be custom-built items for specific applications, have been turned by WAM® into a mass-produced industrial product with features that allow extremely versatile use.

VFS Butterfly Valves are used in all types of powder and granular material plastics processing plants where interception of gravity-fed or pneumatically conveyed dry materials is required.



Applications ▼

VFS Butterfly Valves are used in all types of powder, flakes and granular material processing plants where interception of gravity-fed or pneumatically conveyed dry materials is required.

Typical applications are compounding or masterbatch, coating, extrusion or blow moulding lines.

They are fitted beneath hoppers, bins, silos, screw or other type conveyors, or to intercept pneumatic conveying ducts. Due to their special design and to the engineering materials used, they represent a particularly cost-effective yet most efficient solution.

Benefits ▼

- ✓ **No contamination due to metal steel disc and NBR white seal;**
- ✓ **Dust and granule-proof thanks to component geometry;**
- ✓ **Used with different materials in the same configuration;**
- ✓ **Safety for OEM and user thanks to ATEX certification zone 22;**
- ✓ **Quick integration into the process thanks to its light weight and easy handling;**
- ✓ **Modular design and easy maintenance thanks to small numbers of components;**
- ✓ **High flexibility thanks to interchangeable components.**



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Plastics Processing

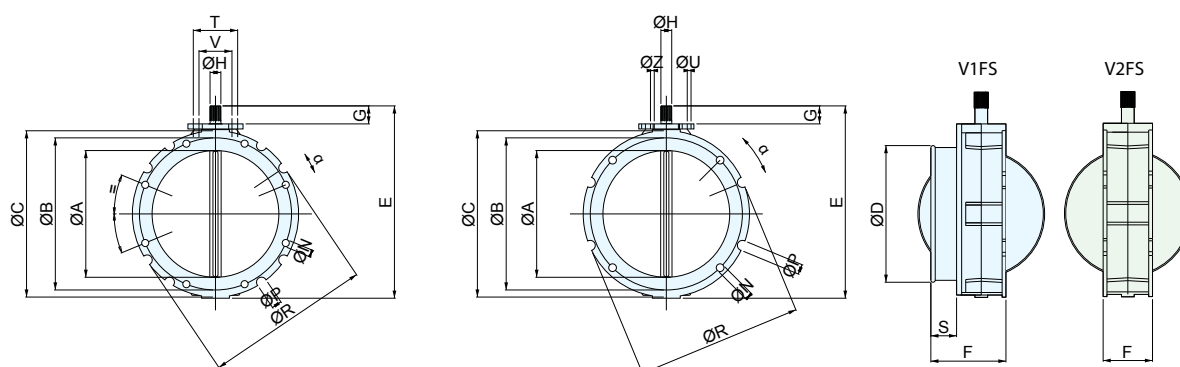
VFS Butterfly Valves



Technical Features / Performance ▼

- ▶ V1FS with top flange and beaded bottom section suitable for fixing of flexible sleeve from 100 to 400mm (4 to 16 in)
- ▶ V2FS with identical top and bottom flange from 100 to 400mm (4 to 16 in)
- ▶ Pressure-proof up to 0.2 bar (2.9 PSI) and max. temperature of 100° C (212° F)
- ▶ Disc in cast iron or stainless steel
- ▶ Absence of residue points
- ▶ White seal for standard or not-contact-with-material applications
- ▶ Small number of components
- ▶ Easy part replacement
- ▶ Lightweight and easy to handle
- ▶ Interchangeable discs

Overall Dimensions ▼



TYPE	Ø A	Ø B	Ø C	Ø D	E	F	G	Ø H DIN 5482	N Drilling	P External grooves	Ø R	α	S	T	U	V	Z	KR
V1FS 100.	95	180	220	105	250	115	35	22x19	N°4 x Ø14	N°4 x Ø20	220	22°30'	40	80	M12	50	M10	4
V1FS 150.	150	200	228	163	290	115	35	22x19	N°4 x Ø14	N°4 x Ø20	228	22°30'	40	80	M12	50	M10	5
V1FS 200.	200	250	278	213	340	115	35	22x19	N°4 x Ø14	N°4 x Ø20	278	22°30'	40	80	M12	50	M10	6.5
V1FS 250.	250	300	328	263	390	115	35	22x19	N°8 x Ø14	N°8 x Ø20	325	11°15'	40	80	M12	50	M10	7.5
V1FS 300.	300	350	378	313	440	115	35	22x19	N°8 x Ø14	N°16 x Ø20	375	5°41'	40	80	M12	50	M10	9
V1FS 350.	350	400	440	363	530	123	50	28x25	N°8 x Ø14	N°8 x Ø20	440	10°	40	80	M12	-	-	16
V1FS 400.	400	470	530	413	580	123	50	28x25	N°8 x Ø14	N°16 x Ø20	530	4°30'	40	80	M12	-	-	20.5

Dimensions in mm

TYPE	Ø A	Ø B	Ø C	E	F	G	Ø H DIN 5482	N Drilling	P External grooves	Ø R	α	T	U	V	Z	KR
V2FS 100.	95	180	220	250	77	35	22x19	N°4 x Ø14	N°4 x Ø20	220	22°30'	80	M12	50	M10	4
V2FS 150.	150	200	228	290	77	35	22x19	N°4 x Ø14	N°4 x Ø20	228	22°30'	80	M12	50	M10	5
V2FS 200.	200	250	278	340	77	35	22x19	N°4 x Ø14	N°4 x Ø20	278	22°30'	80	M12	50	M10	6.5
V2FS 250.	250	300	328	390	77	35	22x19	N°8 x Ø14	N°8 x Ø20	325	11°15'	80	M12	50	M10	7.5
V2FS 300.	300	350	378	440	77	35	22x19	N°8 x Ø14	N°16 x Ø20	375	5°41'	80	M12	50	M10	9
V2FS 350.	350	400	440	530	85	50	28x25	N°8 x Ø14	N°8 x Ø20	440	10°	80	M12	-	-	16
V2FS 400.	400	470	530	580	85	50	28x25	N°8 x Ø14	N°16 x Ø20	530	4°30'	80	M12	-	-	20.5

Dimensions in mm

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



WAM®



WAMGROUP

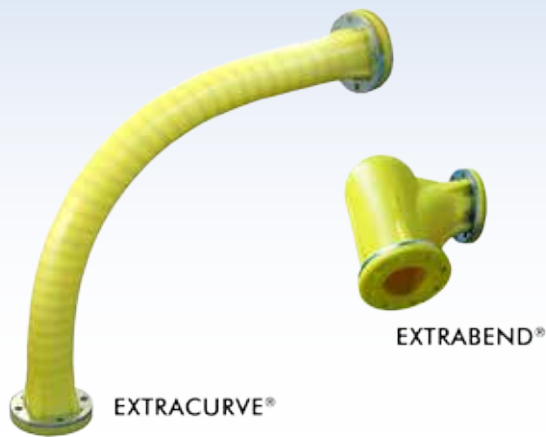
www.wamgroup.com

Plastics Processing

EXTRABEND® and EXTRACURVE® Pipe Elbows



23



Description ▼

Short-radius EXTRABEND® and wide-radius EXTRACURVE® Pipe Elbow are inserted as a link in pneumatic conveying ducts. Both models are manufactured from a one-piece SINT® engineering polymer cast. Wear resistant EXTRABEND® and EXTRACURVE® curves deflect incoming powders, pellets or granular materials toward the outlet minimising material degradation and elbow wear, avoiding at the same time any clogging or plugging.

Function ▼

The EXTRABEND® short-radius pipe elbow offers a substantially innovative geometry suitable to reduce wear during operation in all types of dilute phase pneumatic conveying systems.

The body cavity next to the point of diversion generates an internal material turbulence which protects the elbow from wear caused by the material travelling through the duct.

The EXTRACURVE® represents the latest evolution in the development of wide angle pipe elbows. Due to its flexibility and adaptability installation has become quicker while durability is dramatically increased.



Applications ▼

EXTRABEND® and EXTRACURVE® Elbows are used as a link in silo filling pipes and in ductworks of pneumatic conveying systems. They excel through their particular resistance to wear with abrasive materials.

Benefits ▼

- ✓ Long-life elbow with abrasive materials thanks to anti-wear SINT® engineering polymer material;
- ✓ Reduced installation costs thanks to elastic properties (no extra work for connection on site is needed);
- ✓ Reduced installation and maintenance time because EB/EW are easy to handle thanks to lightweight design;
- ✓ Reduced costs for project designing thanks to elastic properties (elastic elbows fit for different plant layouts);
- ✓ Considerable reduction of flow resistance, consequently energy saving pneumatic conveying.

Plastics Processing

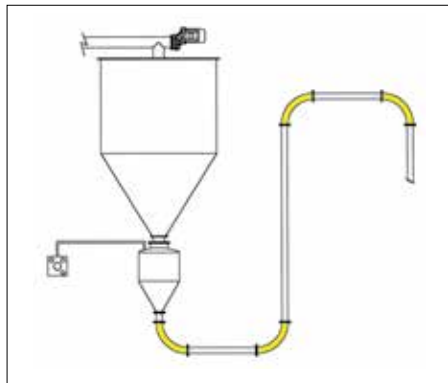
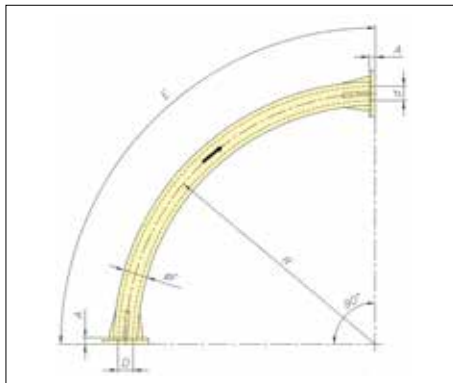
EXTRABEND® and EXTRACURVE® Pipe Elbows



Technical Features / Performance ▼

- ▶ SINT® engineering polymer
- ▶ Range from 2" to 4"
- ▶ PN-type connecting flanges
- ▶ Up to 1.5 bar (22 PSI) in lean phase
- ▶ Max temperature : 80° C (176° F)
- ▶ Flexible and elastic
- ▶ Lightweight and easy to handle
- ▶ Reduced noise level

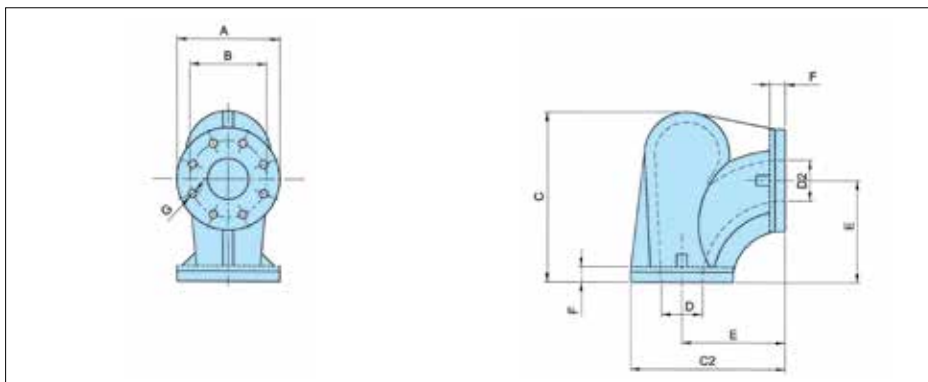
Overall Dimensions ▼



EXTRACURVE®

EW	A	Ød	ØD	E	ØF	R	kg
2"	23	52	55	1,400	85	900	7.3
3"	30	80	83	1,400	110	900	9.6
4"	30	105	108	1,400	140	900	13.4

Dimensions in mm



EXTRABEND®

Type	Ø Piping	A	B	C	C2	Ø D	Ø D2	E	F	Ø G	Flange Drillings	kg
EB 2	2"	165	125	232	220	55	52	140	23	18	4	2
EB 3	3"	200	160	330	300	85	80	200	30	18	4	5
EB 4	4"	220	180	435	373	108	105	263	30	18	8	7

Dimension in mm

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



TOREX®



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Plastics Processing

RBB FIBC Filling Systems



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Description ▼

The RBB FIBC Filling System consists of a steel frame and a stainless steel bag filling unit including an inflatable seal that impedes dust leakage during the filling process.

Function ▼

The RBB FIBC Filling System enables efficient filling of bulk bags. The empty FIBC is attached to the four tensioners in the upper corners of the frame. Then the bag inlet is pulled over the loading spout of the station. The filling procedure starts as soon as the seal around the bag inlet is inflated. Once the FIBC is filled up it will be lifted by a forklift truck and transferred to its further destination once the FIBC has been removed from the frame.



Application ▼

RBB FIBC Filling Systems are used at the end of the extrusion process to pack finished bulk plastic products for storage and shipment.

Benefits ▼

- ✓ **Dust-free bag filling;**
- ✓ **Modular design;**
- ✓ **Compact shipping dimensions;**
- ✓ **Easy to install.**

Plastics Processing

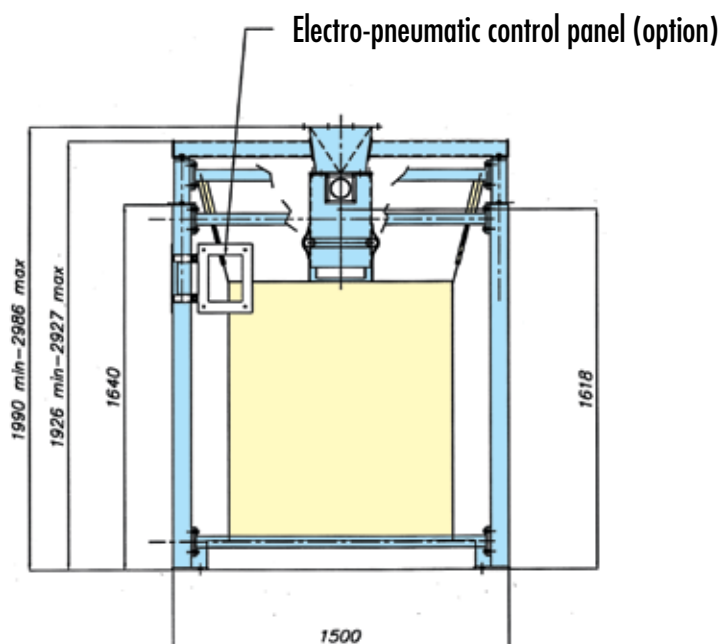
RBB FIBC Filling Systems



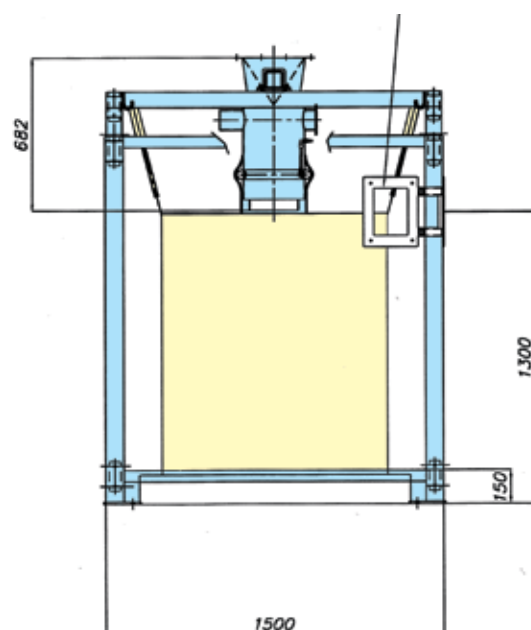
Technical Features / Performance ▼

- ▶ Construction material: contact parts in stainless steel
- ▶ Complete with 4 tensioners for correct positioning of the FIBC
- ▶ Inflatable seal

Overall Dimensions ▼



Electro-pneumatic control panel (option)



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

Plastics Processing

SBB-310 FIBC Dischargers



25



Description ▼

The SBB-310 FIBC Discharger consists of a stainless steel frame complete with a material discharge hopper and an upper mobile cross bar for lifting of the filled up bag by forklift truck into the Discharger.

Function ▼

The SBB-310 is a modular system for discharging Flexible Intermediate Bulk Containers (Big Bags) in different configurations depending on the application. Easy introduction of the FIBC into the support frame and dust-free discharging along with a variety of options make the SBB-310 extremely user-friendly.

The four loops of the FIBC are attached to the hooks of the detached cross bar that has previously been laid on top of the FIBC. The cross bar with the attached FIBC is then picked up by a forklift truck and introduced into the frame of the SBB Discharger. Once the FIBC has settled on the rubber seal of the discharge hopper the outlet closing rope of the FIBC can be pulled open through the inspection hatch of the discharge hopper.



Application ▼

SBB-310 FIBC Dischargers are used to transfer the raw materials contained in FIBCs to silos for storage. The material is normally conveyed pneumatically into the silo.

Benefits ▼

- ✓ **Modular design;**
- ✓ **Compact shipping dimensions;**
- ✓ **Easy to install;**
- ✓ **Complete dust-free discharging from bag corners even with compressed powders.**

Plastics Processing

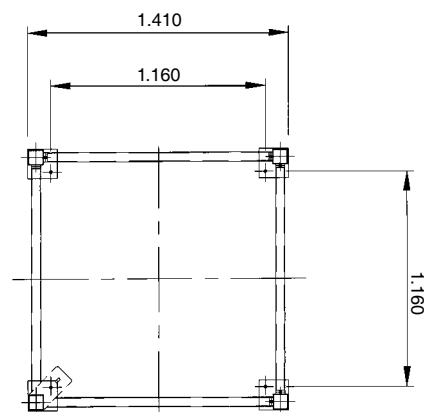
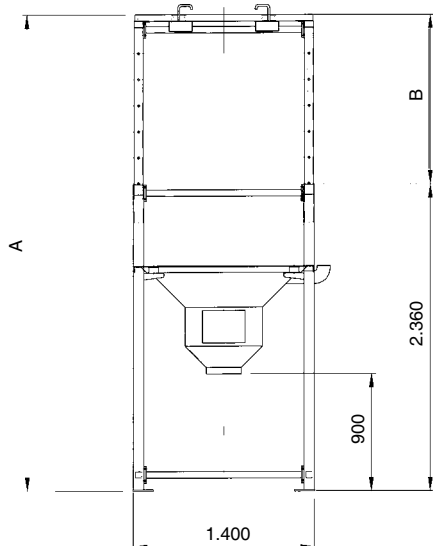
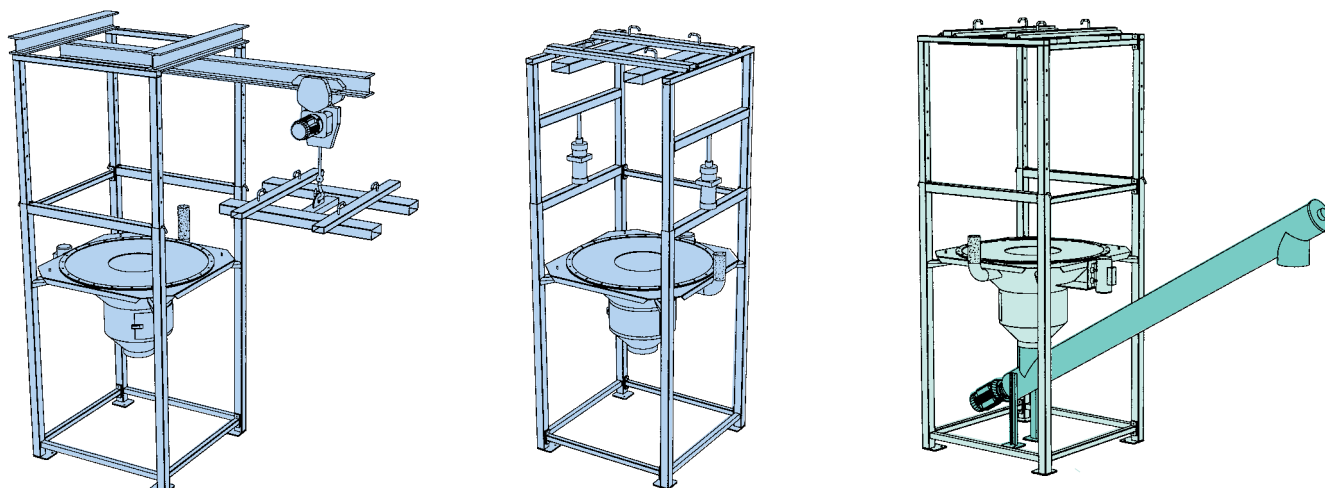
SBB-310 FIBC Dischargers



Technical Features / Performance ▼

- ▶ Construction material: stainless steel
- ▶ Vibrating outlet cone fitted with outlet opening hatchway

Overall Dimensions ▼



TYPE	A	B	C	Max. Bulk Bag Dimensions		
				L	W	M (max.)
SBB01.1.X	3,668	1,884	1,308	1,000	1,000	1,800
SBB01.2.X	4,108	2,234	1,658	1,000	1,000	2,200

Dimensions in mm

DS-310-SBB-EN-December 2012-001
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This datasheet might not show the complete range but only the models most suitable for the application.

Plastics Processing

RSM-310 Manual Bag Openers



26



Description ▼

The RSM-310 Manual Bag Opener is manufactured from stainless steel and consists of a grille with a rest fitted to its front. The grille is mounted on top of a hopper which is supported by four feet. A fabricated hood with protection door fitted to its front covers the hopper and grille. RSM-310 Bag Openers are manufactured in high-finish-grade materials and come with or without integrated de-dusting filter unit. In the version with integrated dust filter the filter elements are cleaned pneumatically by reverse air jet.

Function ▼

The operator puts the bag on the rest and pushes it on to the grille. He then slits the bag open with a vertical cut and shakes it empty. While the bag content may be discharged through a hopper or by BINSWEEP®, a special rotary discharging device, into any type of feeder, the built-in fan operated, air jet cleaned dust collector filters the dust generated during emptying. The empty bag is dropped in the chute on the side which leads into the optional COM-type Waste Bag Compactor (see COM).

Manual RSM-310 Bag Openers are designed to minimise material residue. They satisfy a large number of applications due to their modular component design.



Application ▼

RSM-310 Manual Bag Openers are used to transfer the raw materials contained in bags to silos for storage. The material is normally conveyed pneumatically into the silo.

Benefits ▼

- ✓ **Space-saving overall dimensions and compact user-friendly design;**
- ✓ **Built-in fan-operated, air jet-cleaned, maintenance-friendly dust collector;**
- ✓ **With optional BINSWEEP® Rotary Discharging Device (see chapter)**
- low overall height;**
- ✓ **Favourable price-performance ratio.**

Plastics Processing

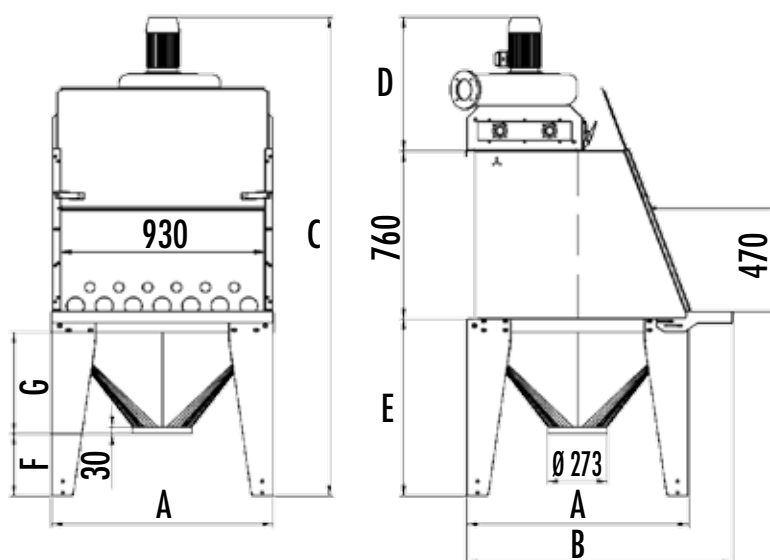
RSM-310 Manual Bag Openers



Technical Features / Performance ▼

- ▶ Construction material: stainless steel
- ▶ Available with de-dusting filter or equipped for centralised dust suction
- ▶ Filter element options: cartridges, round bags, elliptical bags
- ▶ Filter surface from 3 to 22 m² (32 to 237 sq ft)
- ▶ Collecting hoppers with different capacity volumes
- ▶ Support feet with possibility of height adjustment
- ▶ ATEX compliant for zone 22

Overall Dimensions ▼



	RSM 310
A	1,006
B	1,208
C*	2,166
D*	606
E*	800
F**	282
G**	458

* Depending on the height of the filter elements and on the type of support feet

** Depending on the hopper model

Further outlet dimensions reported in Technical Catalogue

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

Plastics Processing

BINSWEEP® Rotary Dischargers BNS-310

27



Description ▼

The BINSWEEP® Rotary Discharger is a device through which powders or granular materials are discharged from small size bins or hoppers provided there is a low headload. Flanged on the outlet of the bin or hopper, BINSWEEP® has a bottom disc equipped with two rotating arms fixed at its centre. Scrapers are fitted on the lower end of the arms that move the material towards an outlet spout in the bottom plate. A gear motor that applies motion to the rotary arms is mounted outside in the bottom centre of the disc.

Function ▼

The BINSWEEP® Rotary Discharger is an efficient discharging device for a variety of powders and granular materials. It is applicable to small bins or hoppers. Its low height reduces the overall dimensions of the system layout.

BINSWEEP® is frequently used for recovery of dust from medium-size dust collectors and as a discharging device fitted beneath manual bag openers.



Application ▼

The BINSWEEP® Rotary Discharger enables efficient discharging and cleaning of the material collecting hopper fitted beneath the manual bag opener. Thanks to BINSWEEP® the bags can be opened at a comfortable work height. A special steep-angle underground hopper design can be also avoided.

Benefits ▼

- ✓ **Continuous, even discharging;**
- ✓ **Minimum space required;**
- ✓ **Low maintenance costs due to equipment components highly resistant to wear;**
- ✓ **Minimum material residue.**

Plastics Processing

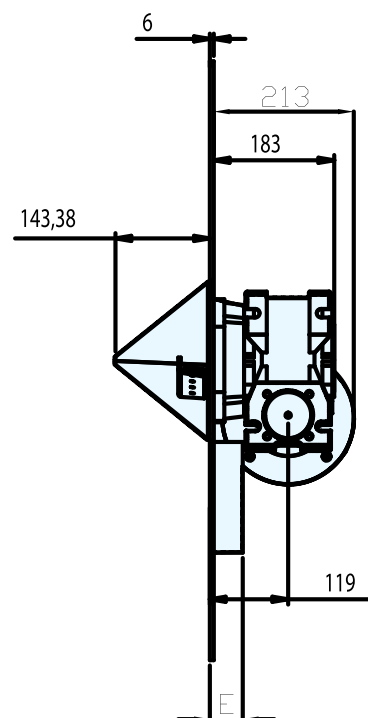
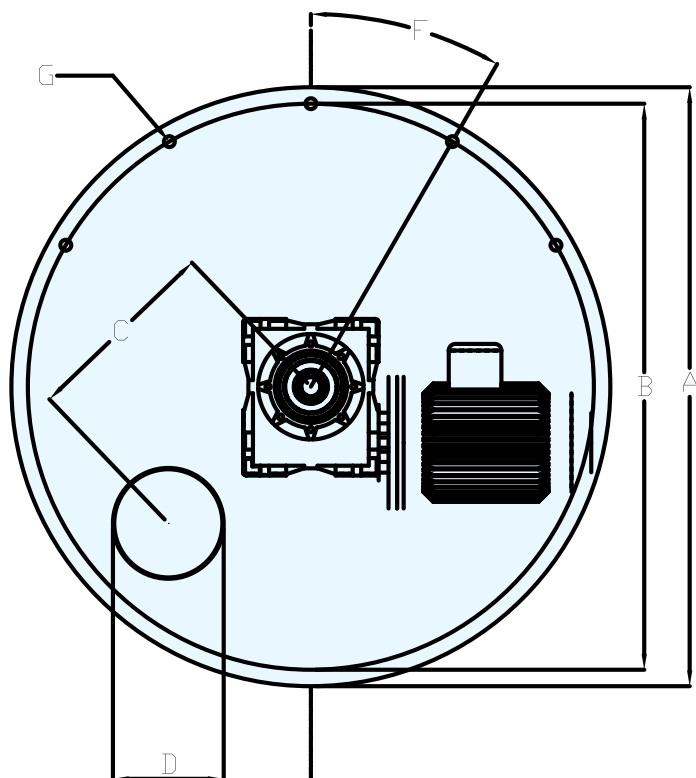
BINSWEEP® Rotary Dischargers BNS-310



Technical Features / Performance ▼

- ▶ Body material: stainless steel;
- ▶ Low operating noise level

Overall Dimensions ▼



	BSN 075	BSN 090
A (mm)	910	1,075
B (mm)	860	1,020
C (mm)	300	359
D (mm)	168	193
E (mm)	50	50
Nbr. of G	12	12
Ø G (mm)	16.5	16.5
F	30°	30°
kW	1.1 - 1.5	1.1 - 1.5
RPM	14	14

Further outlet dimensions reported in Technical Catalogue

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

Plastics Processing

COM Waste Bag Compactors



28



Description ▼

The COM Bag Compactor for torn empty bags consists of a carbon or stainless steel trough with appropriate surface finishing. The U-profile trough is longitudinally split in half to facilitate replacement of the SINT® liner that helps introduction and further compression of the broken bags. The Bag Compactor is equipped with a suitable direct drive unit. At the drive end the compactor is equipped with an end plate fixed to the end flange of the trough for assembly of the end bearing complete with flanged shaft coupling for the bag compacting screw. The other trough end is connected with a tapered pipe that facilitates the progress of the compacted broken bags. At the end of this pipe a polyethylene tube for disposal of the waste bags can be fitted.

Function ▼

The COM Waste Bag Compactor receives entire empty bags or bag fragments from a bag emptying device compacting the bags to approximately one eighth of their original volume. Collected in a polyethylene hose that is periodically untied and cut, the waste bags can be easily disposed of.



Application ▼

COM Waste Bag Compactors are fitted on the outlet of an RSM-310 Manual Bag Opener or an RSA-310 Automatic Bag Splitter for the compaction and disposal of waste bag material.

Benefits ▼

- ✓ Work environment kept clean;
- ✓ Easy access to all parts due to modular design;
- ✓ Extra-heavy-duty shaftless compactor spiral able to handle waste bags of any type without adjustment;
- ✓ Detachable outlet safeguard in compliance with CE-regulations;
- ✓ Compactor does not have to be stopped for untieing filled polyethylene tube;
- ✓ SINT® engineering polymer liner for better compression of the bags.

Plastics Processing

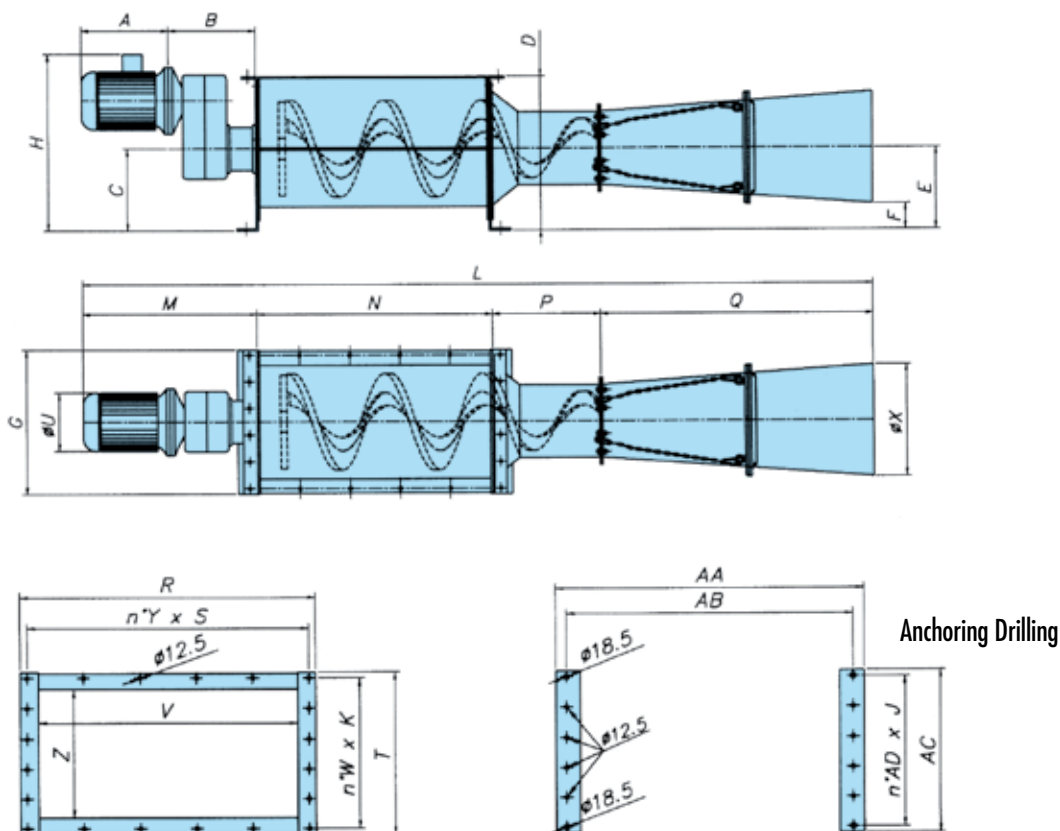
COM Waste Bag Compactors



Technical Features / Performance ▼

- ▶ Construction material: carbon steel or stainless steel;
- ▶ Complete with adjustable tensioning ring for polyethylene hose for disposal of waste bags;
- ▶ Heavy-duty shaftless compactor spiral supported at inlet end;
- ▶ Direct gear motor drive directly mounted at inlet end;
- ▶ ATEX, zone 22 certification.

Overall Dimensions ▼



Type	A	B	C	D	E	F	G	H	L	M	N	P	Q	U	X	R	T	V	Z	AA	AB	AC	N°W	K	N°Y	S	N°AD	J
COM 030	320	320	245	440	245	67	435	600	2.436	640	496	300	1.000	218	357	584	435	484	325	624	564	435	3	128,3	4	136	3	128,3
COM 040	320	320	305	575	305	95	540	660	2.906	640	868	398	1.000	218	420	970	540	850	425	1.010	940	540	5	100	5	185	5	100

Plastics Processing

RSA-310 Automatic Bag Splitters



29



Description ▼

The RSA-310 Automatic Bag Splitter is made up of a splitting unit consisting of a trough that encloses an extra-heavy-duty splitting screw complete with an appropriate gear motor and of a screening unit consisting of a horizontal cylindrically shaped rotating screen also complete with a drive unit. On top of the screening unit a suitable fan-operated dust collector can be integrated. Alternatively the RSA-310 is supplied with connecting spigots for a central de-dusting unit.

Function ▼

The RSA-310 Automatic Bag Splitter is used for splitting and emptying single or multiple layer bags made from paper, polyethylene, or polyethylene-lined paper.

The bags are loaded manually or via belt conveyor into the inlet which is covered by a dust collecting hood. The bags drop from the belt on an extra-heavy-duty shaftless screw. Thin bags will burst open just through the impact. Bags with multiple layers or those made of elastic plastic material are pulled in by the slowly turning screw and ripped open through a scissor effect between screw and trough. This effect is increased due to a replaceable panel with integrated cutters applied to the inside of the trough. As it cuts them open the screw conveys the broken bags and their content into the revolving screen. The bag contents fall through the screen mesh into a collecting device mounted on the outlet of the machine. Through rotation and a slight vibration of the screen (due to its patented design) the bags are completely emptied. Paddles applied inside the screen drum repeatedly lift up the empty bags. In this manner the bags are liberated from remaining material. The inclination of the paddles helps the bags move towards the screen outlet where they drop into the optionally built-on COM-type bag compactor (see COM).



Application ▼

RSA-310 Automatic Bag Splitters are used to transfer large quantities of raw materials contained in bags to silos for storage. The material is normally conveyed pneumatically into the silo.

Benefits ▼

- ✓ Low product retention rate;
- ✓ Compact machine consisting of a small number of components (only few spare parts required);
- ✓ Easy access to all machine parts;
- ✓ Low operating noise level due to use of SINT® engineering polymers;
- ✓ Easy and quick replacement of filter elements;
- ✓ Able to handle bags of different sizes without any machine adjustment;
- ✓ Favourable price-performance ratio.

Plastics Processing

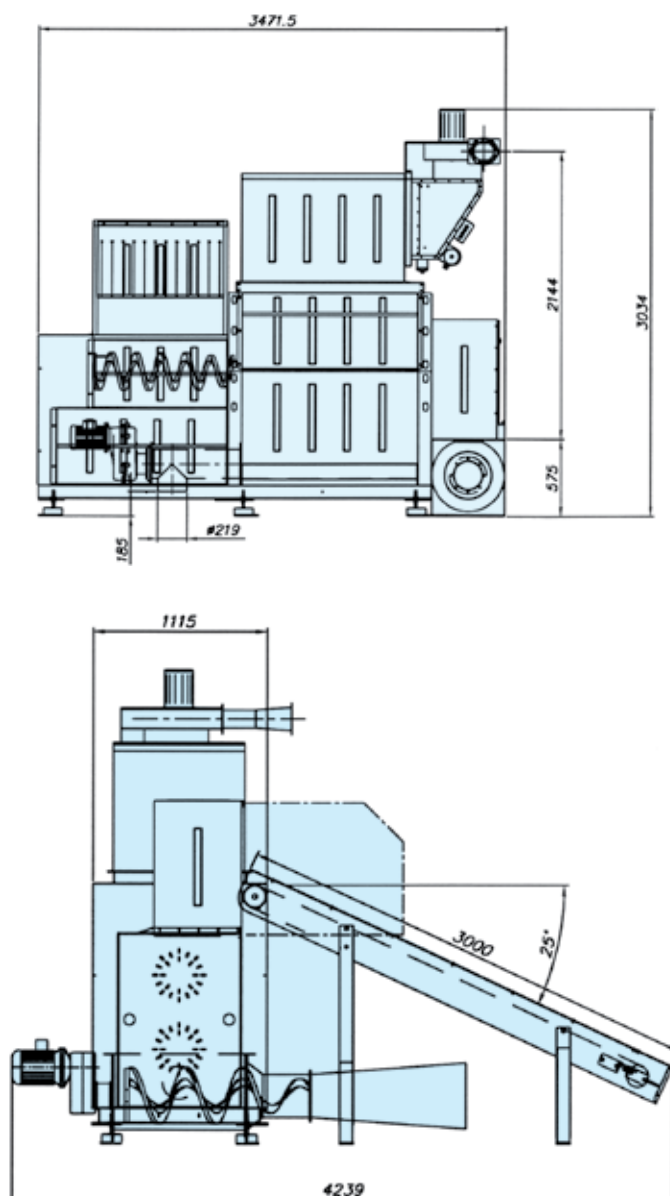
RSA-310 Automatic Bag Splitters



Technical Features / Performance ▼

- ▶ Construction material: contact parts in stainless steel;
- ▶ Compact and robust design;
- ▶ Available with integrated dust collector or pre-equipped for centralised de-dusting system;
- ▶ Rotary vibrating screen completely in stainless steel with different size screen mesh.

Overall Dimensions ▼



Plastics Processing

WBHV Batch-Type Single Shaft Mixers



30



Description ▼

WBHV Batch-Type Single Shaft Mixers consist of a horizontal single shaft equipped with ploughshare or shovel tools, housed in a tubular mixing drum. One or more inlets, an outlet with central discharge port, a venting spout, two drum closing end plates that carry flanged end bearing assemblies complete with integrated, adjustable, shaft sealing units and a drive unit complete with power transmission.

Function ▼

The horizontal single shaft ploughshare mixer WBH is based on the principle of mechanical fluidisation of the product. The particular shape, position and rotation speed of the mixing tools, create a centrifugal vortex motion which allows the products to be projected in a three-dimensional way and to merge with each other. This ensures that components with different particle size and bulk density are perfectly blended and mixed with high precision within the shortest possible time.



Application ▼

Processing of all kinds of PVC, resins, thermoplastic resins, thermosets, compounds, melts, pastes and solutions.

For various applications in the plastics industry, process-specific solutions are offered by MAP® in the fields of polymerization, mixing, homogenizing, dispersing, emulsifying, compounding, coating, agglomerating, conditioning, heating/cooling and melting.

MAP® mixers are used for the production, stabilization, preparation and product feature adjustment of plastic materials (thermoplastics, thermosets, elastomers, resins).

Benefits ▼

- ✓ **Maximum mixing homogeneity;**
- ✓ **High speed mixing;**
- ✓ **Low material residue;**
- ✓ **Minimum wear/low maintainance;**
- ✓ **Easy access to all internal parts of the mixer;**
- ✓ **Maximum quality mixing;**
- ✓ **Attractive price;**
- ✓ **Low maintenance costs;**

Plastics Processing

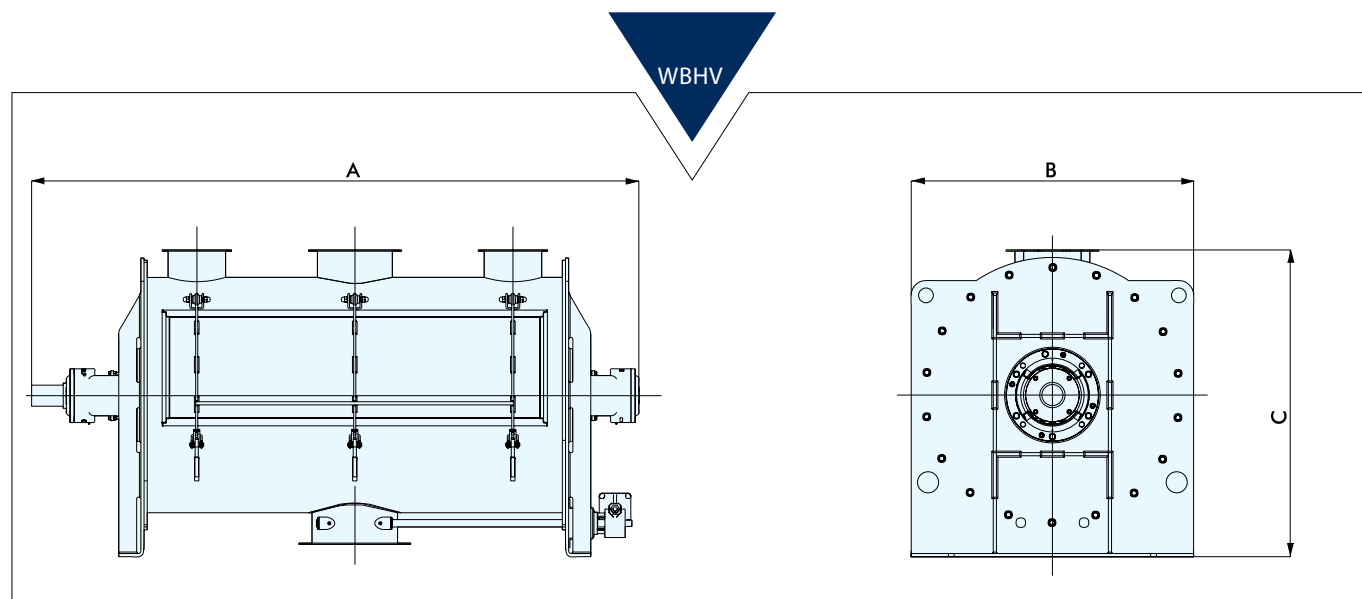
WBHV Batch-Type Single Shaft Mixers



Technical Features / Performance ▼

- ▶ From 75 up to 15,000 litres volume
- ▶ Different construction materials
- ▶ Bomb-bay total discharge available (15° or 60°).

Overall Dimensions ▼



TYPE	A	B	C	Usable Volume (dm ³)	Empty Weight (kg)
WBHV 75	1,300	611	649	56	245
WBHV 150	1,460	670	754	105	350
WBHV 300	1,840	770	889	210	550
WBHV 550	2,150	930	1,075	385	840
WBHV 800	2,350	980	1,151	560	1,080
WBHV 1100	2,690	1,100	1,278	770	1,400
WBHV 2000	2,920	1,340	1,455	1,400	2,100
WBHV 3000	3,920	1,340	1,455	2,100	2,800
WBHV 4800	4,520	1,500	1,750	3,360	4,300
WBHV 6000	4,820	1,600	1,860	4,200	4,800
WBHV 8800	5,390	1,810	2,130	6,160	5,800
WBHV 10500	5,630	1,910	2,160	7,350	6,900
WBHV 15000	6,124	2,110	2,445	10,500	8,200

Dimensions in mm

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

Plastics Processing

WAH Continuous Single Shaft Mixers



31



Description ▼

WAH is a Continuous Horizontal Single Shaft Mixer suitable for dry bulk solids (powders, granules, short fibres), dry bulk solids + liquids (conditioning & granulating), sludges and pastes.

WAH Mixers operate on the principle of a mechanically generated fluid bed. Ploughshare or shovel-shaped mixing tools rotate close to the horizontal, cylindrical drum casing lifting the components to be mixed from the product bed into the open mixing area. The quality of the mixture is achieved before the product reaches the mixer outlet.

Function ▼

The horizontal single shaft mixer WAH is based on the principle of mechanical fluidisation of the product.

The particular shape, position and rotation speed of the mixing tools, creates a centrifugal vortex motion, which allows the products to be projected in a three-dimensional way and to merge with each other.

This ensures that components with different particle size and bulk density are perfectly blended and mixed with high precision within the shortest possible time.



Application ▼

Processing of all kinds of PVC, resins, thermoplastic resins, thermosets, compounds, melts, pastes or solutions.

For various applications in the plastics industry, process-specific solutions are offered by MAP® in the fields of polymerization, mixing, homogenizing, dispersing, emulsifying, compounding, coating, agglomerating, conditioning, heating/cooling and melting.

MAP® mixers are used for the production, stabilization, preparation and product feature adjustment of plastic materials (thermoplastics, thermosets, elastomers, resins).

Benefits ▼

- ✓ **Maximum mixing homogeneity;**
- ✓ **High speed mixing (short mixing time);**
- ✓ **Low material residue;**
- ✓ **Minimum wear/low maintainance;**
- ✓ **Easy access to all internal parts of the mixer;**

Plastics Processing

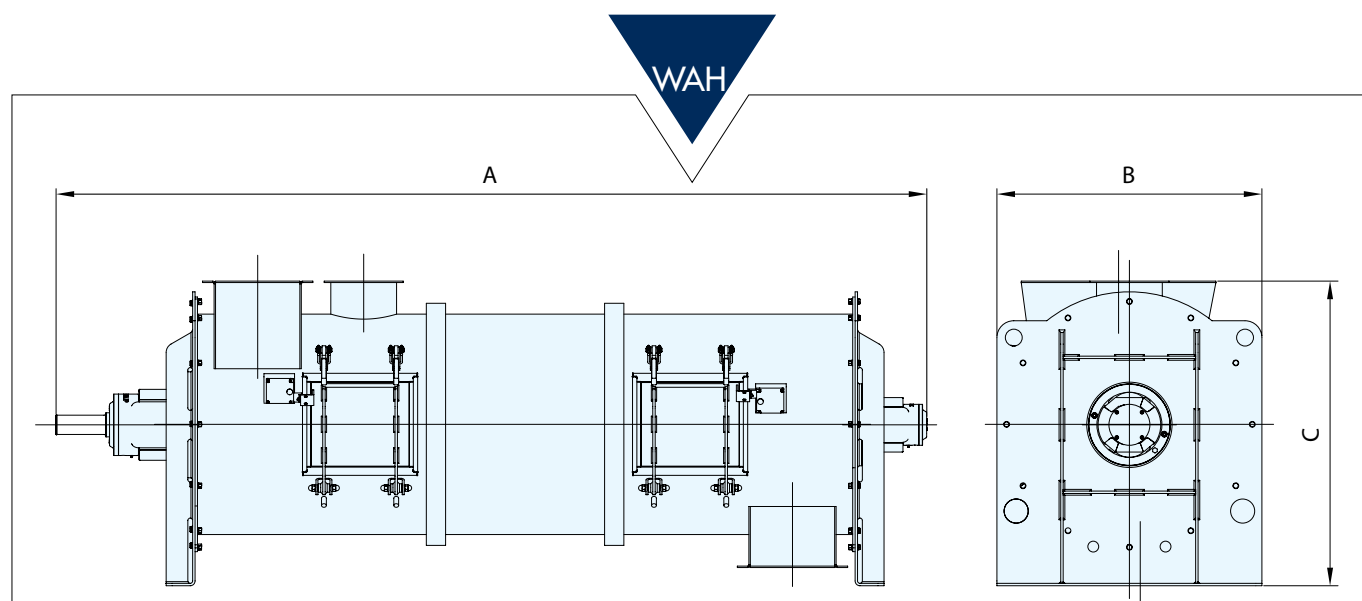
WAH Continuous Single Shaft Mixers



Technical Features / Performance ▼

- ▶ From 75 up to 15,000 litres volume
- ▶ Different construction materials
- ▶ Different types of mixing tools

Overall Dimensions ▼



	A	B	C	50% dm^3/h Residence Time		Empty Weight (kg)
				60 s	180 s	
WAH 00075	1,690	485	556	2,022	674	210
WAH 00150	1,960	570	634	4,031	1,344	350
WAH 00300	2,220	670	801	7,892	2,631	580
WAH 00500	2,550	770	920	13,716	4,572	840
WAH 01000	3,140	930	1,118	27,993	9,331	1,390
WAH 01800	3,670	1,100	1,265	50,170	16,723	2,100
WAH 03000	3,920	1,340	1,472	82,577	27,526	2,800
WAH 04800	4,510	1,500	1,800	134,281	44,760	3,800
WAH 06000	4,816	1,600	1,860	165,708	55,236	4,500
WAH 08800	5,325	1,810	2,133	245,796	81,932	5,840
WAH 10500	5,580	1,910	2,237	295,322	98,441	6,600
WAH 15000	6,090	2,110	2,465	411,885	137,295	8,200

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

Plastics Processing

WBN Batch-Type Ribbon Blenders



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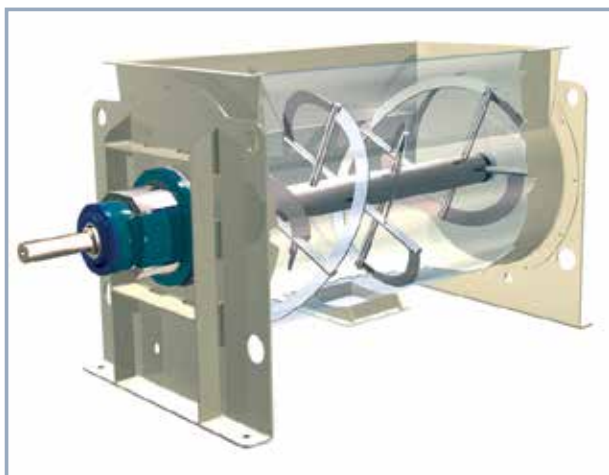


Description ▼

WBN Batch-Type Ribbon Blenders consist of a horizontal, single shaft double counter-pitch ribbon screw housed in a tubular mixing drum, a central inlet or a rectangular shape inlet port across the entire length of the mixing drum, an outlet with a central discharge outlet, a venting spout, two drum closing end plates that carry flanged end bearing assemblies complete with integrated adjustable shaft sealing unit, and a drive unit complete with power transmission.

Function ▼

The outer helix will move the material from both ends of the vessel towards the centre, while the inner helix will transfer the material towards both ends, performing a sort of convection mixing. The product is processed gently in a relative short mixing time.



Application ▼

Processing of all kinds of PVC, resins, thermoplastic resins, thermosets, compounds, melts, pastes and solutions.

For various applications in the plastics industry, process-specific solutions are offered by MAP® in the fields of polymerization, mixing, homogenizing, dispersing, emulsifying, compounding, coating, agglomerating, conditioning, heating/cooling and melting.

MAP® mixers are used for the production, stabilization, preparation and product feature adjustment of plastic materials (thermoplastics, thermosets, elastomers, resins).

Benefits ▼

- ✓ **Maximum mixing homogeneity;**
- ✓ **Mixing of fragile materials without particle damage;**
- ✓ **Low material residue;**
- ✓ **Minimum wear/low maintenance;**
- ✓ **Easy access to all internal parts of the mixer;**
- ✓ **Attractive price;**
- ✓ **Maximum quality mixing.**

Plastics Processing

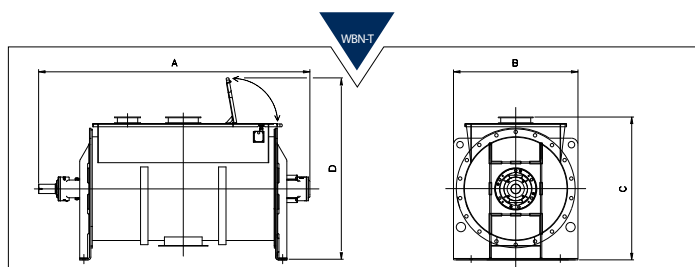
WBN Batch-Type Ribbon Blenders



Technical Features / Performance ▼

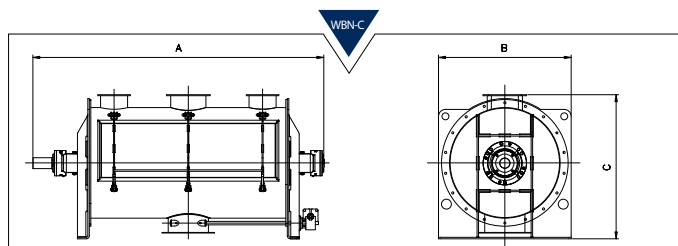
- ▶ From 75 up to 15,000 litres volume
- ▶ Different construction materials
- ▶ Bomb-bay total discharge available (15° or 60°).

Overall Dimensions ▼



TYPE	A	B	C	D	Usable Volume (dm ³)	Empty Weight (kg)
WBN-T 75	1,300	611	670	1,051	56	160
WBN-T 150	1,460	670	763	1,274	105	270
WBN-T 300	1,840	770	930	1,393	210	400
WBN-T 550	2,150	930	1,133	1,585	385	690
WBN-T 800	2,350	980	1,154	1,602	560	850
WBN-T 1100	2,690	1,100	1,260	1,754	770	1,200
WBN-T 2000	2,920	1,340	1,465	1,975	1,400	2,400
WBN-T 3000	3,920	1,340	1,465	2,090	2,100	2,700
WBN-T 4800	4,520	1,500	1,725	2,199	3,360	3,800
WBN-T 6000	4,820	1,600	1,876	2,325	4,200	4,400
WBN-T 8800	5,390	1,810	2,067	2,665	6,160	5,300
WBN-T 10500	5,630	1,910	2,413	2,862	7,350	6,900
WBN-T 15000	6,124	2,110	2,706	3,190	10,500	8,000

Dimensions in mm



TYPE	A	B	C	Usable Volume (dm ³)	Empty Weight (kg)
WBN-C 75	1,300	611	649	56	160
WBN-C 150	1,460	670	754	105	270
WBN-C 300	1,840	770	889	210	400
WBN-C 550	2,150	930	1,075	385	690
WBN-C 800	2,350	980	1,151	560	850
WBN-C 1100	2,690	1,100	1,278	770	1,200
WBN-C 2000	2,920	1,340	1,455	1,400	2,400
WBN-C 3000	3,920	1,340	1,455	2,100	2,700
WBN-C 4800	4,520	1,500	1,750	3,360	3,800
WBN-C 6000	4,820	1,600	1,860	4,200	4,400
WBN-C 8800	5,390	1,810	2,130	6,160	5,300
WBN-C 10500	5,630	1,910	2,160	7,350	6,900
WBN-C 15000	6,124	2,110	2,445	10,500	8,000

Dimensions in mm

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

Plastics Processing

Loss-in-Weight Feeding System - MBF+BE

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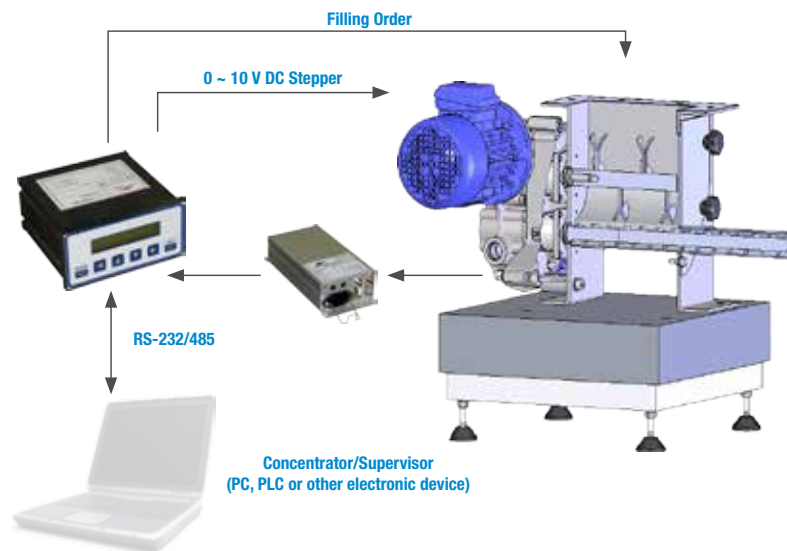


Function ▼

Wherever powders or granular materials have to be continuously fed and metered, MBF-BE type Loss-In-Weight Screw Feeders offer exceptional operating versatility due to a highly precise metering performance and excellent user-friendliness.

MBF series Micro-Batch Feeders for powder and granular product feeding are particularly suitable for poorly flowing materials which tend to clog, along with adhesive products. Poorly flowing products with cohesion or bridging problems are homogeneously fed into the feeding zone by the blending shaft which is shaped according to the product properties.

Depending on the users individual requirements, MBF Micro-Batch Feeders can be supplied with alternative feeder screws and blending tools and with various accessories.



Benefits ▼

- ✓ Simplification of automation of the feeding process;
- ✓ Quick integration into new or existing production processes;
- ✓ Suitable for installations in a battery configuration;
- ✓ Easy to use, clean and maintain;
- ✓ Minimum downtime during product change;
- ✓ Highly reliable and durable;
- ✓ Functional assessment in WAMGROUP®'s own test facility based on decades of experience in bulk solids feeding and metering;
- ✓ Attractive price.



Description ▼

MBF and BE Loss-In-Weight Screw Feeders consist of a steel-reinforced SINT® engineering polymer body (optionally body entirely manufactured in stainless steel), a horizontally mounted rotating agitator tool, a feeder screw beneath the agitator tool, a feeder pipe enclosing the protruding feeder screw, one independent drive unit each for agitator and feeder screw and an optional electronically operated scale pan mounted on load cells.

The system is able to assess any variation in weight in time adjusting the feedrate by varying the speed of both discharging and feeding device.

Applications ▼

Loss-in-weight system, which come in various configurations, are suitable for feeding of granules, flake or powders. Design flexibility enables feeding of resins, both in powdery or granular form, charges, fibers and additives.

Typical areas of application are compounding and masterbatch lines, coating, extrusion and blow moulding. Typical positions within the plant are on weighing scales for loss-in-weight installations next to the extruder, granulator or compounding system. Furthermore, they are positioned inside dosing stations on top of weighing scales upstream of turbo-mixers.

Plastics Processing

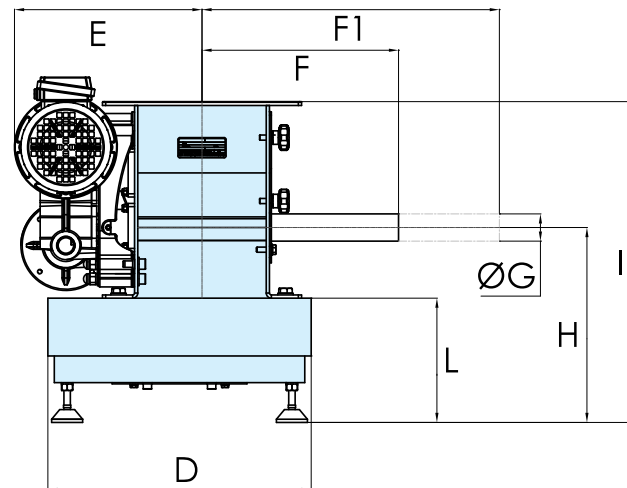
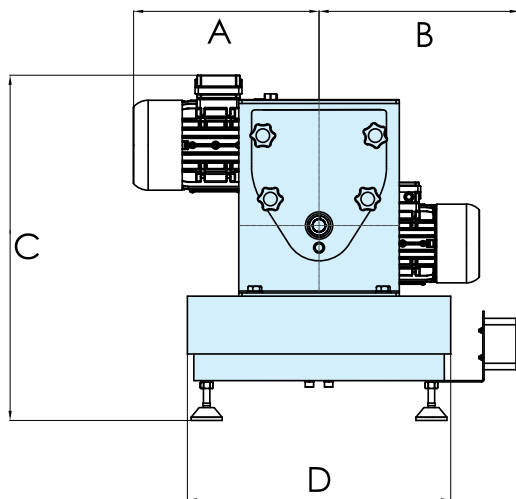
Loss-in-Weight Feeding System - MBF+BE



Technical Features / Performance ▼

- ▶ Continuous real-time controlling and adjustment depending on material weight and flow;
- ▶ Feeding accuracy between 0.5 and 1%;
- ▶ Sturdy, compact system with contact surfaces manufactured from suitable construction materials;
- ▶ Interchangeability of standard components and accessories within the feeder range;
- ▶ Micro-Batch Feeder available with ATEX-certification;
- ▶ Feed hoppers having different geometry and volume

Overall Dimensions ▼



MODEL	A	B	C	D	E	F	F1	Ø G	H	I	L
042	298	312	538	410	292	306	476	42	304	500	194
073	335	372	570	510	417	435	685	76	333	685	199
114	335	372	589	510	417	435	685	114	333	703	199

Dimensions in mm

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