

Plastics Processing Bin Activator BA-310



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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.**

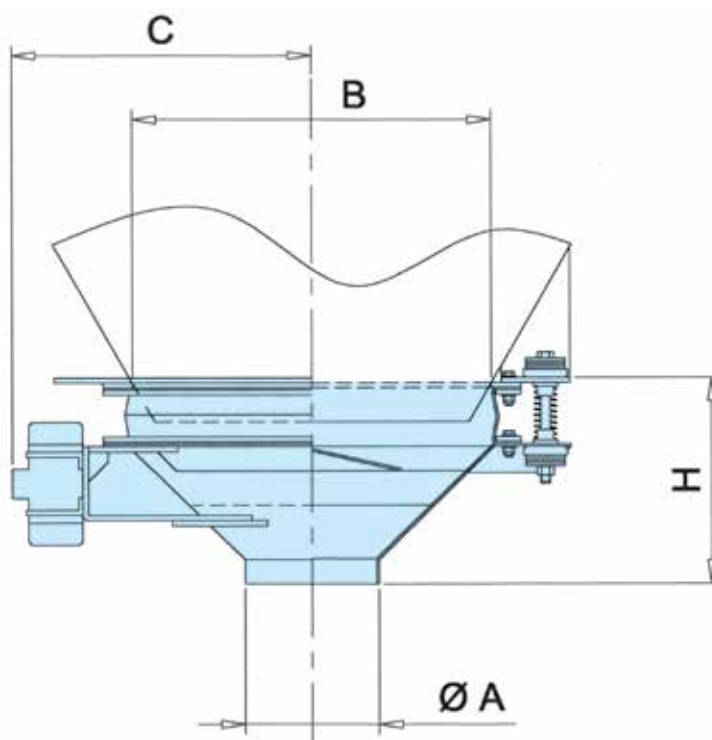
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Technical Features / Performance ▼

- ▶ 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.