

Brabender Bin Activator Type BAV04N

The Brabender Bin Activator Type BAV04N serves for continuous or discontinuous discharge of bulk materials from silos and bins. It consists of a discharge cone with integrated baffle support, which is safely suspended from a silo-welded flat ring by horizontally flexible hanger arms with high restoring forces. An unbalance motor generates a horizontal circular vibration of the suspended part. The discharge cone, the motor support and the stabilizing flange form a stress-free constructional unit ensuring even distribution of the dynamic forces.

The BAV manner of operation allows non-compacting discharge according to the "first in - first out" principle and uniform filling of downstream metering feeders or conveyors.

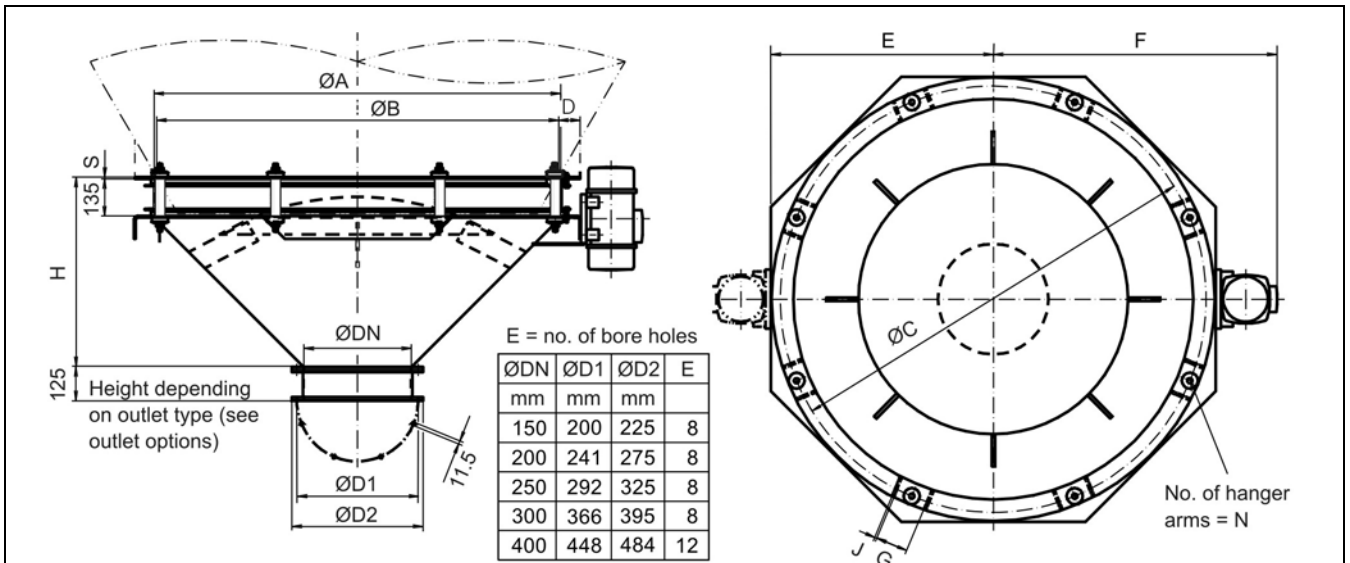
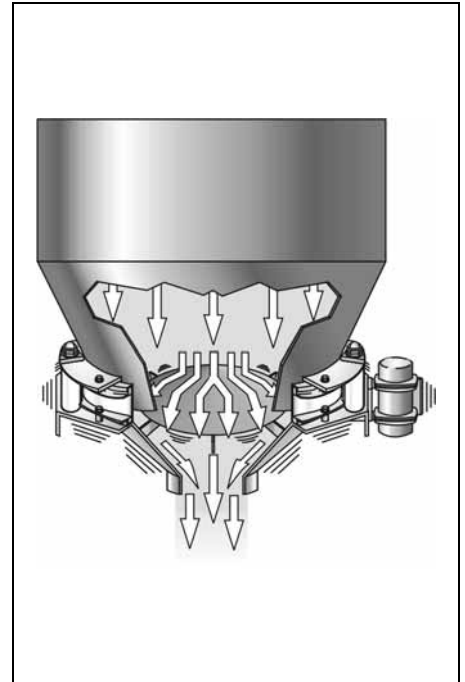
In addition, the deaerating effect of the unbalance movement prevents floodable materials from gushing out and homogenizes the bulk density.

The model sizes range from 600 to 3000 mm diameter so that suitable units for all silos and bins are available.

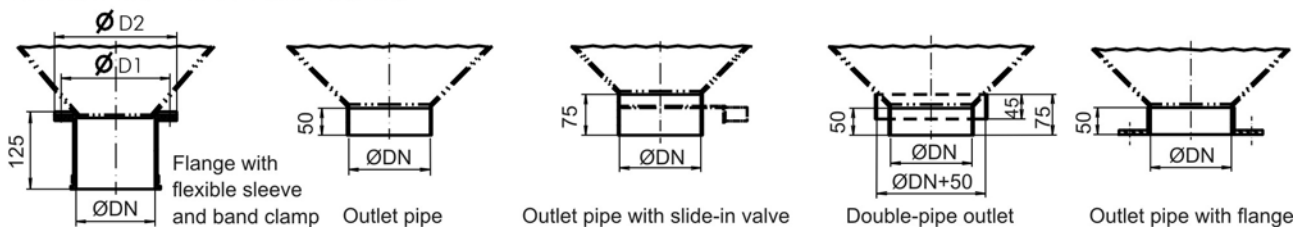
Bins and silos may be made of mild steel, stainless steel, aluminium or plastics material.

The Brabender Bin Activator is either made of mild steel or stainless steel.

The unit conforms to CE directives.



Outlet options (flexible connection required):



Type	Ø A	Ø B	Ø C	Ø DN	H	D	E	F	S	J	G	N	Motors	Weight
604N	600	590	670	150-300	355-280	60	365	555	6	6-8	100	4	1	approx. 55 kg
904N	900	884	980	150-400	515-390	80	530	725	8	6-8	100	4	1	approx. 85 kg
1204N	1200	1184	1280	150-500	670-495	80	675	900	8	8-10	110	8	1	approx. 160 kg
1504N	1500	1484	1580	200-500	800-650	80	825	1055	8	8-10	100	8	1	approx. 245 kg
1804N	1800	1784	1900	200-500	945-795	100	995	1250	10	10-12	200	8	2	approx. 450 kg
2104N	2100	2069	2180	200-600	1090-890	100	1145	1375	12	10-12	200	12	2	approx. 600 kg
2404N	2400	2369	2480	200-600	1240-1040	100	1295	1525	12	10-12	200	16	2	approx. 850 kg

Technical Data*

Models

- Type BAV 604N (Ø 600 mm)
- Type BAV 904N (Ø 900 mm)
- Type BAV 1204N (Ø 1200 mm)
- Type BAV 1504N (Ø 1500 mm)
- Type BAV 1804N (Ø 1800 mm)
- Type BAV 2104N (Ø 2100 mm)
- Type BAV 2404N (Ø 2400 mm)

Dimensions see overleaf

Upon request: Ø 3000 mm

Standard Scope of Supply

- Discharge cone with integrated baffle support
- Weld-on flat ring to suspend the discharge cone
- Horizontally flexible stable hanger arms (number and size depending on model)
- Flexible transition sleeve with safety fastening, white polyurethane, seamless, highly flexible for optimum vibration insulation from the silo
- Unbalance motor, infinitely variable, for little maintenance and long life-time (from model BAV 1804N two motors)
- Flexible outlet sleeve, white polyurethane, seamless, flanged to the discharge cone, incl. connection flange ring

Material Versions

Ingredient-touched steel parts:

- R-St37-2, primed

- SS 1.4301 (≈ AISI 304), internally and externally glass bead blasted (optionally pickled and passivated)
- SS 1.4571 (≈ AISI 316 Ti), internally and externally glass bead blasted (optionally pickled and passivated)

Mild steel parts not in contact with the ingredient primed

Standard Motors

Three-phase current vibration motors
Voltage: 220-240/380-415 V, 50 Hz
Enclosure: IP 66

Insulation class F, tropical insulation
Painting: similar to RAL 2000, smooth

Options / Accessories

Surface Treatment

Mild steel versions:

- Sand-blasting and painting, colour as per RAL colour chart
- Sand-blasting of internal surfaces

Stainless steel versions:

- Painting of mild steel parts, colour as per RAL colour chart
- Special painting of motor, colour as per RAL colour chart

Outlet Options

(dimensions see overleaf)

- Flexible outlet sleeve, white polyurethane, seamless, flanged to the discharge cone, incl. band clamp
- Outlet pipe
- Outlet pipe with manual slide-in

- emergency shut-off valve
- Double-pipe outlet
- Outlet pipe with flange as per Brabender standard (option: PN6 or PN10 flange)
- Flexible outlet sleeves for flexible connection of non-flange outlet pipes

Special Motors

- Non-standard voltages (e. g. 440 V, 500 V etc.)
- Special frequency 60 Hz
- Explosion proof versions

Special Sleeve Materials

- Silicone transition sleeves
- Flexible outlet sleeves made of white neoprene or silicone

Accessories

- Shut-off valves and flap shutters
- Mounting structures for valves
- Small-size bins

Combination Feasibilities

Downstream conveying and feeding equipment, e.g.

- Screw conveyors
- Vibratory conveyors
- Belt conveyors
- Rotary valves

Volumetric and gravimetric metering feeders from the Brabender product line, e.g.

- Screw feeders
- Loss-in-weight feeders
- Weigh-belt feeders, etc.



TECHNOLOGIE
An ISO 9001/EN 29001 Certified Company

*Modifications reserved. All data describe our products in a general manner. They are no agreement on or warranty of characteristics in the sense of § 434 or guarantee in the sense of § 443 of the German Civil Code or similar regulations and effect no liability.

Issue 11.0 (November 08)
Supersedes 6.0 (June 08)