BULK SOLIDS HANDLING

Valve Solutions ▪ Unlock the Potential

The valve people

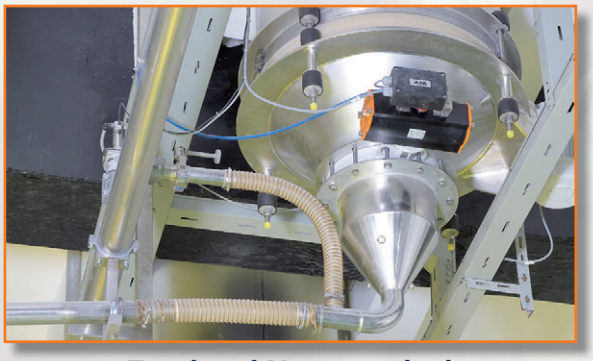
EBRO ARMATUREN®

A WIDE RANGE OF VALVE SOLUTIONS FOR

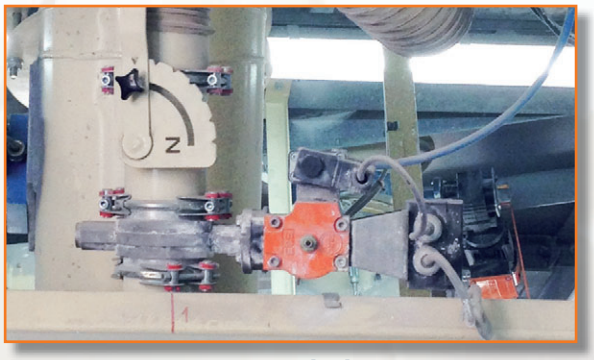
CEMENT, CHEMICALS, PLASTICS, FOOD, NUTRACEUTICALS, PHARMACEUTICALS

Gravity Discharge from Silos

Discharge of Dispersions



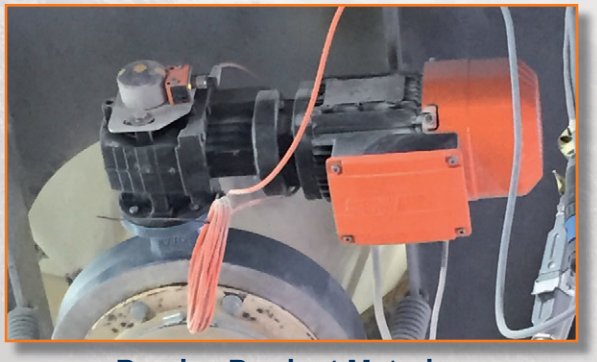
Food and Nutraceutical



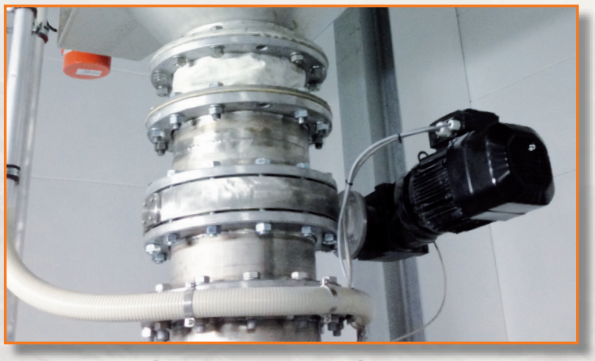
Duct Isolation

Vessel Isolation

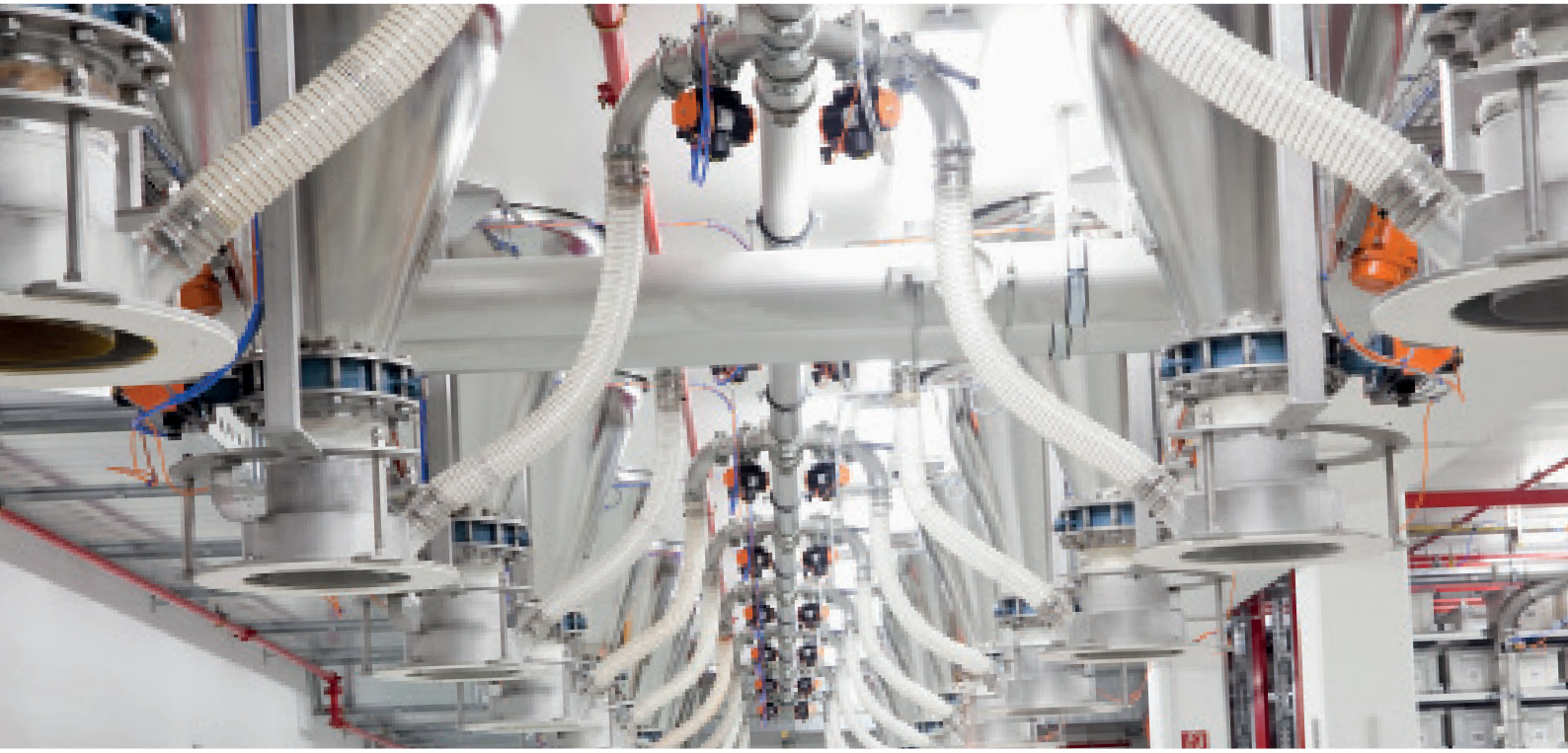
Feed Control for Vessel Filling



Precise Product Metering



Continuous or Batch Process



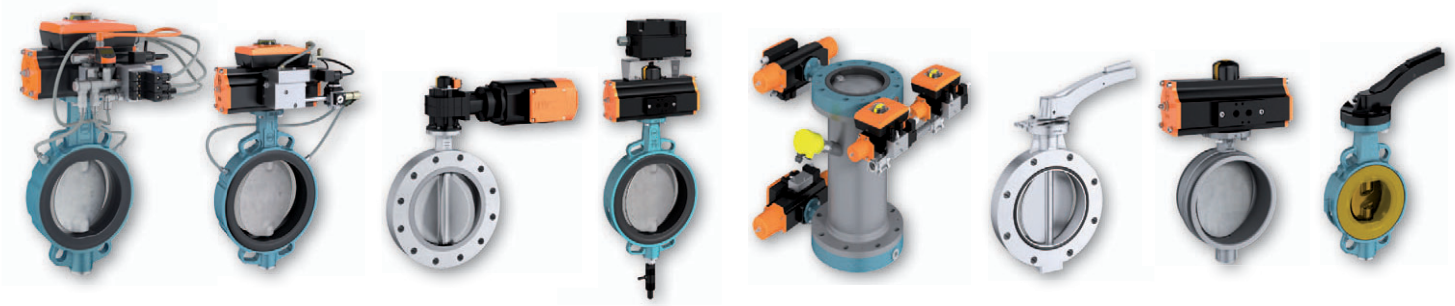
PROVEN FOR GENERATIONS

EBRO VALVE SOLUTIONS FOR BULK SOLIDS HANDLING

Bulk solids covers a wide universe of applications requiring a diverse range of valves to handle these demanding applications. On the one hand, fine powders require a different set of considerations to products like pellets or pills. Highly abrasive products such as cement or sand demand high performance regarding abrasion resistance or wear.

EBRO offers a wide range of valves, actuators and controls that are designed specifically to meet the exacting individual needs of our customers.

Whether you require an impeller valve for precise metering of product or a valve with an inflatable liner or one with abrasion resistant materials such as a polyurethane liner or a valve with vibration added to the disc for improved flow – we offer a solution for your application.



INFLAS®

When abrasive media is handled, the opening and closing of the valve can result in extreme wear of the liner. This leads to frequent service intervals and low system efficiency. Sensitive products (pet food, cereal ...) can be damaged by the mechanical force of the closing valve.

The EBRO Inflas valve solves these problems. The diameter of the disc is smaller than the inner diameter of the liner, so there will be a gap when the valve is closed. Then the seat inflates against the disc providing bubble tight seal in both directions of flow.

Prior to opening, the air pressure is vented, releasing the mechanical seal, and the disc opens at reduced torque.

Nominal diameter:	DN 80 - DN 600
Temperature range:	-40 °C to + 200 °C (depending on pressure, medium and material)
Operating pressure:	max. 16 bar

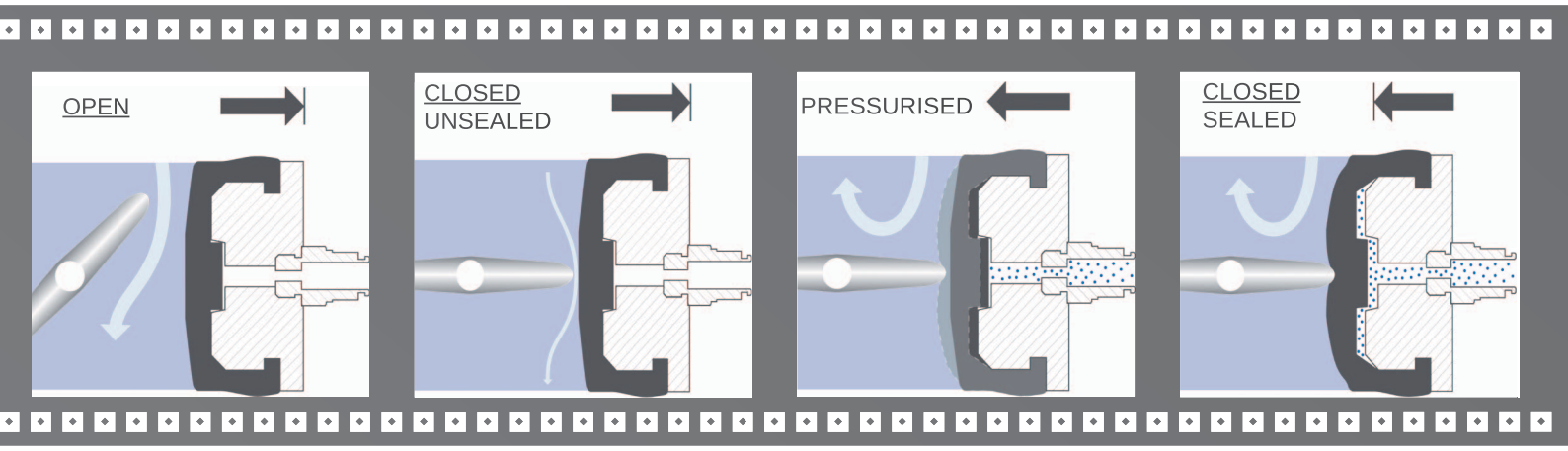
INFLAS PRO: Advanced control technology for critical applications that demand sequence verification and faster cycle times

INFLAS ECO: Cost effective mechanical solution for Inflas seat inflation and deflation

Inflas PRO

Inflas ECO

INFLAS PRO & INFLAS ECO
Low wear thru inflatable liner



VIDOS®

This valve couples the use of a proportioning actuator to control the opening angle of the disc with a high frequency vibrator.

This allows precise control of the discharge flow from a hopper or bin allowing great accuracy. The vibration is also effective in enhancing the flowability of products and discharge flow.

Nominal diameter:	DN 150 - DN 400
Temperature range:	-10°C to +200°C (depending on pressure, medium and material)
Operating pressure:	max. 16 bar

VIDOS
No bridging effects thru vibrating disc

IMPELLER VALVE FS-M

Discharging powders or granules from silos, bulk bags, hoppers, etc. for processing often requires a steady flow of material. Discharge rates need to be controlled to prevent clogging. Food ingredients and sensitive media need to be handled with great care to prevent breakage, compression or solidification.

Impeller valves minimize the above mentioned risks. Easy to install and maintain, they discharge fluidized powder as well as heavy bulk materials. The light weight and slim valve body, combined with the stainless steel impeller and powerful gear motor, ensure a very efficient flow control of media in any powder or bulk process.

Nominal diameter:	DN 150 - DN 500
Temperature range:	-20 °C to +100°C, optional up to +250°C
Operating pressure:	max. 6 bar

FS-M
Safe and consistent discharge
of rapidly flowing products

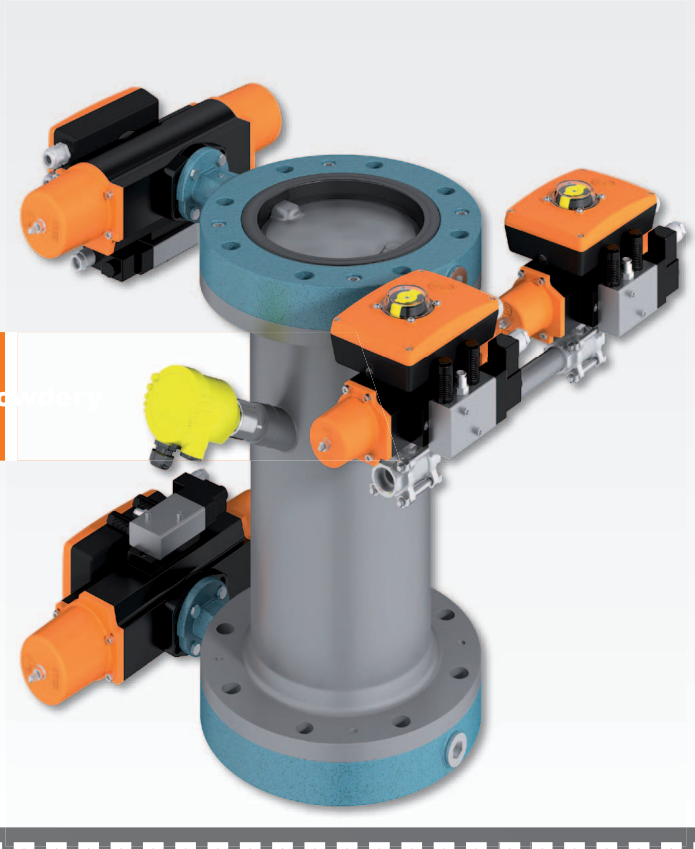
CYCLE-LOCK TS

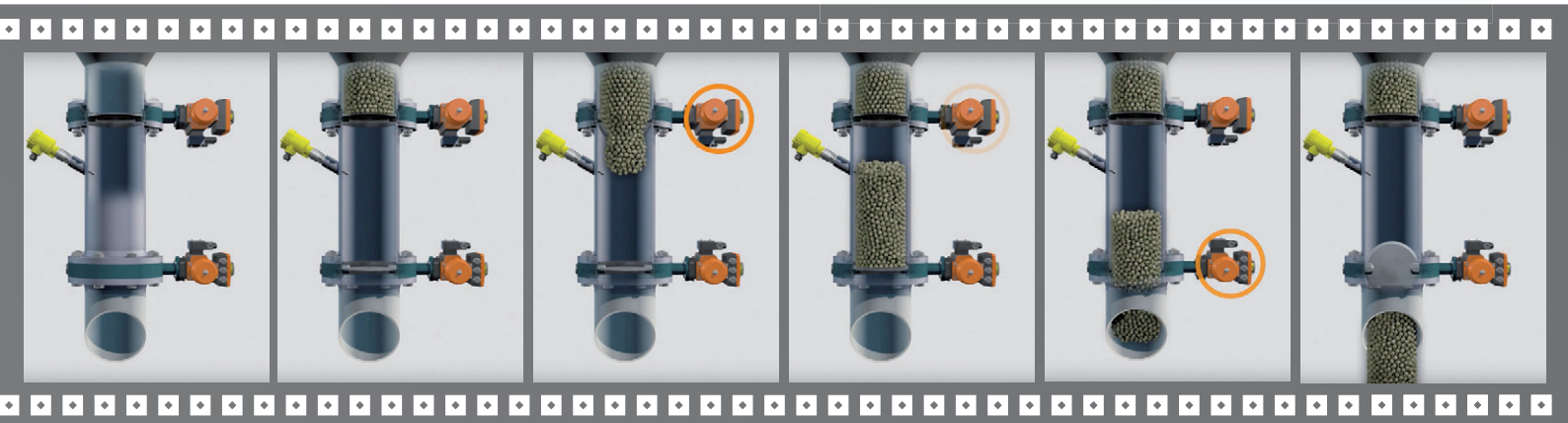
The EBRO-Cycle-Lock System offers tremendous flexibility when needing to feed a bulk powder in any pressure or vacuum situation.

This concept offers greater flexibility than a double dump valve – since any valve of the immense EBRO product range can be used – and also eliminates the problem of blow back air associated with rotary feeders.

Nominal diameter:	DN 50 - DN 600
Temperature range:	-40°C to +400°C
Operating pressure:	max. 16 bar
Chamber volume:	customized

CYCLE-LOCK TS
A gastight discharge valve for powdery media and granules.



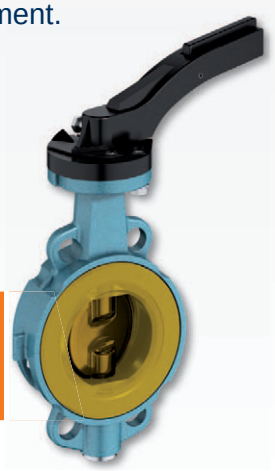


Operation of the Cycle-Lock available as an animation on the Internet.

Z 011-GMX

Due to the special coating of the disc and liner, the wafer type valve Z011-GMX is suitable for shut off and control of highly abrasive media such as sand and cement.

Nominal diameter:	DN 50 - DN 300
Temperature range:	10 °C to + 90 °C (depending on pressure, medium and material)
Operating pressure:	max. 6 bar



Z 011-GMX
Ideally suited for highly abrasive media

CK-M

The metallic sealing version (CK-M) has an airspace between disc and body. This series is highly suited to control airflows and aspiration services.

Nominal diameter:	DN 65 - DN 300
Temperature range:	-10°C to +130°C, optional 220°C (depending on pressure, medium and material)
Operating pressure:	max. 3 bar

CK-M
The solution for aspiration servi
in clamp ring installation

TW-M

The series TW-M provides a light metal body with a stainless steel insert ring instead of an elastomer seat. Due to its special design jamming of the media e.g.granulates is avoided allowing the valve to close propperly.

Nominal diameter:	DN 80 - DN 200
Temperature range:	-20 °C to +100°C, optional up-to +250°C
Operating pressure:	max. 6 bar

TW-M
The outlet valve for silo trucks

ABOUT US

EBRO ARMATUREN, headquartered in Hagen, Germany, is one of the world's leading manufacturers of industrial valves, actuators and automation technology. With our international network of production plants, subsidiaries and representatives we are always close to the customer. Excellent expertise combined with high-quality products makes us an internationally acknowledged partner of the machine and plant engineering sector.

As an owner-managed family business we stand for quick decision-making, high individual responsibility, continuity and sustainable investments in research and development. We offer customized solutions for almost every individual application.

Adaptive Industrial Solutions

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