

THE FUTURE STANDARD FOR SAFETY, HYGIENE AND CLEANABILITY

# MZC-I AND MZC-II ROTARY VALVES

**DMN**  
WESTINGHOUSE



FUTURE-PROOF VALUE SINCE 1950

## THE FUTURE STANDARD FOR SAFETY, HYGIENE AND CLEANABILITY

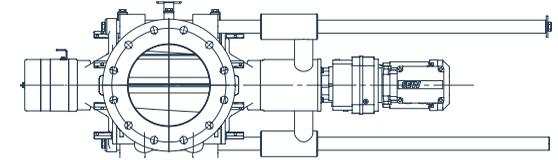
Meet the MZC-I and MZC-II, our top-level range of rotary valves that sets the standard in the field of safety, hygiene and cleanability. Today and in the future. Extreme durability and efficiency, combined with easy cleanability, make the MZC-I and MZC-II the reliable core of your production processes. Maximize your output while cutting time and costs for maintenance and thorough cleaning. That's the MZC-I and MZC-II for you.

**MZC-I:** The all-purpose rotary valve with a compact design.

**MZC-II:** The ultimate rotary valve that meets the highest hygiene requirements.



## MZC-I AND MZC-II ROTARY VALVES BRING YOU EASY ACCESS AND SAFE CLEANABILITY



### THE MZC-I AND MZC-II ROTARY VALVES OFFER YOU:

- Unprecedented cleanability
- Easier and safer maintenance than ever before
- Applications for a broad range of industries
- Cleaning In Place (CIP). The rotor can remain in position during cleaning
- Additional safety through an integrated emergency safety switch

Which rotary valve you choose depends on the requirements for hygiene and access to the rotary valve.

### MZC-I CHARACTERISTICS:

- Space efficient one-sided opening
- Various drive options

### MZC-II CHARACTERISTICS:

- Opens on two sides for unprecedented easy access and superior cleanability
- Only a direct drive is offered, to allow for ease of opening and cleaning

MZC-I



MZC-II

## QUALIFIED, VERIFIED, CERTIFIED

In the dry bulk industry hygiene is of top priority. Every piece of machinery, from rotary valves and diverter valves to other related components, must meet the highest standards. At DMN-WESTINGHOUSE we take great pride in meeting these standards.

Our MZC-I and MZC-II rotary valves are ATEX and UKCA 'Ex' (UKEX) certified for both dust and gas. And our rotary valves are also CE and UKCA-certified.

This means that you have the assurance that our products are of perfect quality. As a result, it is easier to obtain an ATEX/UKEX marking or acceptance for the entire installation.



## OPENING THE DRIVE-SIDE SLIDING UNIT (MZC-II)

Incredibly easy access allows deep cleaning of the end cover and spigot, the areas where powder residue settles.

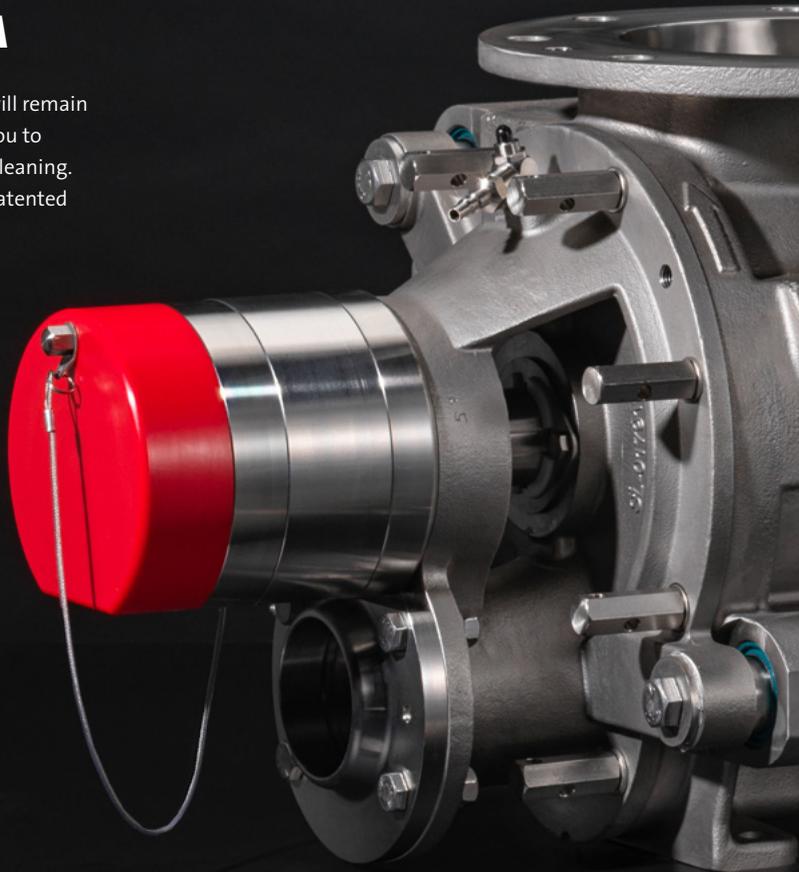


## ROTOR LOCKING MECHANISM

In order to clean the rotary valve safely, you can lock the rotor to prevent it from turning.

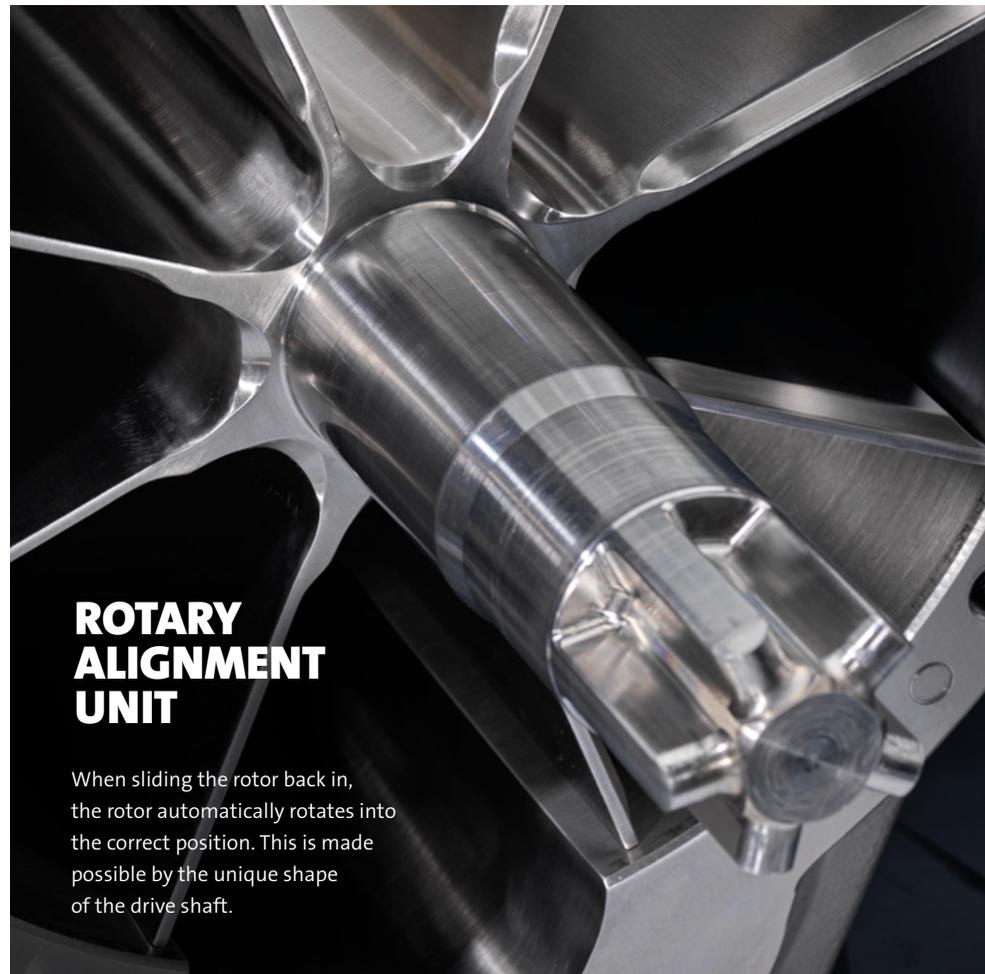
## PRECISION ALIGNMENT MECHANISM

After sliding out, the rotor will remain perfectly level. This allows you to rotate the rotor for perfect cleaning. This mechanism has been patented by DMN-WESTINGHOUSE.



## ROTARY ALIGNMENT UNIT

When sliding the rotor back in, the rotor automatically rotates into the correct position. This is made possible by the unique shape of the drive shaft.





## QUICK-RELEASE AIR CONNECTIONS

Easier and smarter connection or storage  
of disconnected air tubes.

## SPECIALLY DESIGNED CRADLE

The rotor can even be taken out as a complete unit (finger-safe rotor extraction)  
and placed in a specially designed cradle for precision cleaning.



## RID, THE ROTOR INTERFERENCE DETECTION FOR HIGHER SAFETY, HYGIENE AND MAXIMUM RELIABILITY

The Rotor Interference Detection system (RID) is our special in-house design, based on electrical conductivity. The system will detect unwanted contact between the rotor, body, or end-covers, and warn the operators of possible contamination of the conveyed product. The second-generation RID control unit offers a highly flexible method of controlling both direct metal-to-metal contact, as well as contamination caused by product build-up.

DMN-WESTINGHOUSE rotary valves are produced to the strictest tolerances and rotor movement is not likely to occur. However, should the rotor become damaged by foreign objects passing through the valve, movement can occur. In that case, the rigid and simple design of the RID ensures problem-free operation.

### RID CHARACTERISTICS:

- Special control unit designed by DMN-WESTINGHOUSE
- Contamination alarm feature
- Settings can be modified to suit the application
- Separate value settings during CIP process
- Data logging with alarm status
- Can be retrofitted to existing rotary valves
- Dedicated software

HIGHLY  
RECOMMENDED



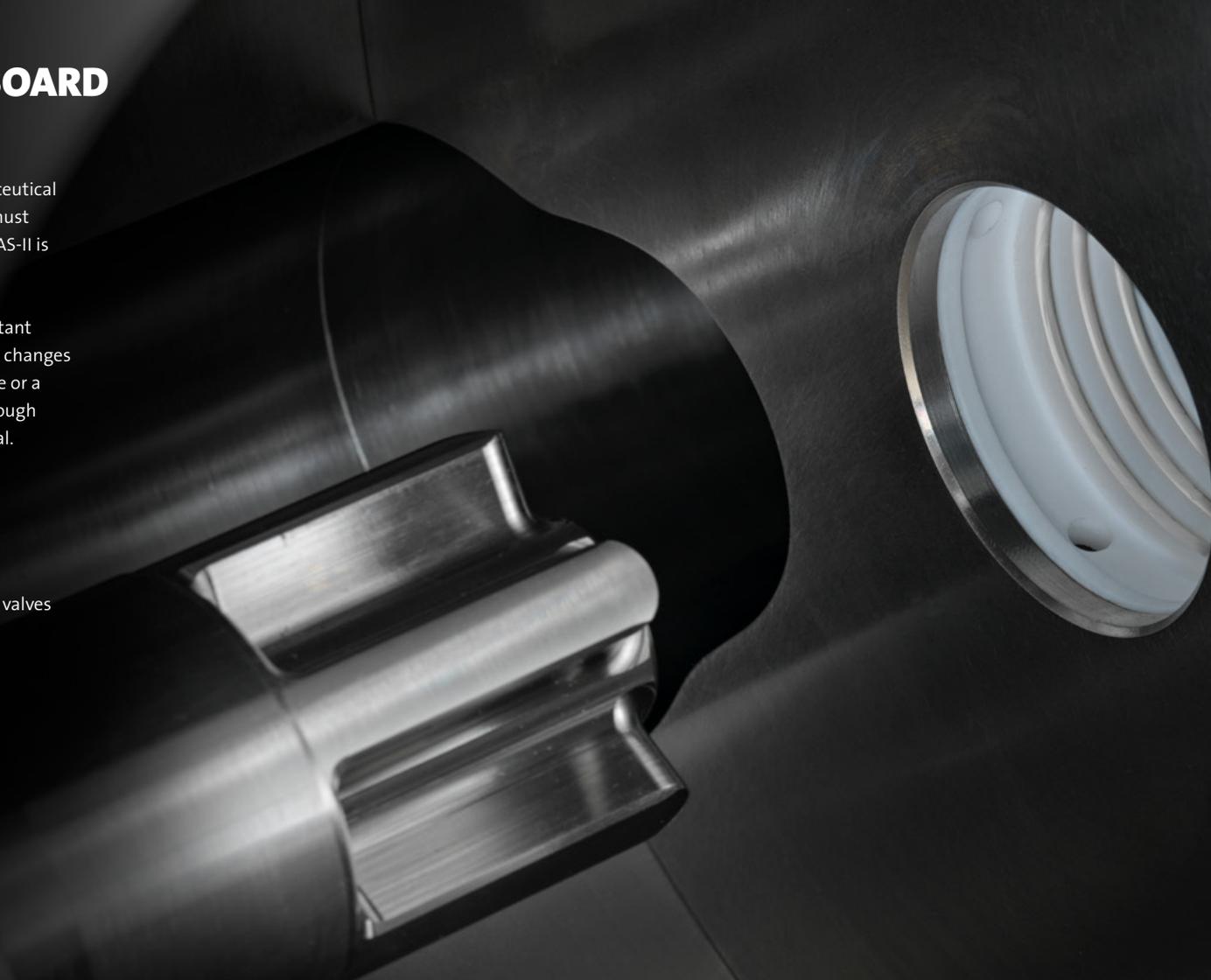
## SAS-II, ROTARY VALVE OUTBOARD BEARING SHAFT SEAL

More than ever, process engineers across the food and pharmaceutical industries need reliable, hassle-free equipment. Rotary valves must be fail-safe and prevent leakage problems – all day, every day. SAS-II is designed to prevent common leakage without fail.

A pressure regulator set with flow regulators will ensure a constant flow independent of the pressure inside the valve. Any pressure changes inside the valve (either a drop in pressure due to a blower failure or a rise for example due to blockage) will not affect the airflow through the shaft seals. This ensures the function and lifetime of the seal.

### SAS-II CHARACTERISTICS:

- Easy maintenance
- Compact design
- Stainless steel cover plate to prevent overtightening
- SAS-II is the preferred shaft seal arrangement for Dairy rotary valves





## APPLICATIONS

At DMN-WESTINGHOUSE we know our customers and what they need in order to excel. Thanks to our decades of experience in the world of dry bulk handling we can offer custom-made solutions for a broad range of industries. For example, the MZC-I and MZC-II rotary valves are suitable for the following industries:

- ✓ Animal feed
- ✓ Cereal
- ✓ Coffee
- ✓ Cosmetics
- ✓ Dairy
- ✓ Food
- ✓ Infant formula
- ✓ Nutrition
- ✓ Pet food
- ✓ Pharmaceutical



## ROTARY VALVE SIZE AND MEASUREMENTS

The MZC-I & MZC-II high-duty rotary valves are available in various types and sizes. For every imaginable application, DMN-WESTINGHOUSE offers a (custom-made) solution.

VALVE TYPE	DESCRIPTION
AL	Drop through rotary valve
AXL	Drop through rotary valve with an enlarged inlet
NR	Drop through rotary valve
BL	Blow through rotary valve
BXL	Blow through rotary valve with an enlarged inlet Designed for products with poor flowability
BXXL	Blow through rotary valve with an extra enlarged inlet Designed for products with poor flowability

VALVE TYPE	VALVE SIZE					
AL	150 (6")	175 (7")	200 (8")	250 (10")	300 (12")	350 (14")
AXL		200 (8")	250 (10")	300 (12")	350 (14")	
NR				347		
BL	150 (6")	175 (7")	200 (8")	250 (10")	300 (12")	350 (14")
BXL		200 (8")	250 (10")	300 (12")	350 (14")	
BXXL				350 (14")		
Ltr./rev. At 100% filling	2.5	5.5	10.5	19	34	58
ft <sup>3</sup> /rev. At 100% filling	0.09	0.18	0.37	0.67	1.20	2.05

## CONTACT

### WORLDWIDE DISTRIBUTION NETWORK

We are a global company with sales offices and distributors around the world. With our knowledge and expertise, we provide custom-made solutions and support to meet the unique needs of each customer. For more information and other inquiries, please contact your local sales team or distributor. You can find the complete list of distributors at [dmnwestinghouse.com/distributors](https://dmnwestinghouse.com/distributors).

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