

Product presentation

KREISEL Rotary valves

Carsten Mevius



- certified to DIN EN ISO 9001
- an approved manufacturing company per AD 2000 Leflet HPO in connection with DIN EN ISO 3834-2
- an approved welding company per DIN 18800 Sheet 7 (Comprehensive Form of Verification)
- IBExU-Certificate – ATEX



Rotary valves

- Feeding and discharge with constant volume flow
- Air lock and decoupling for pressure systems
- Safety system acc. ATEX
- Dosing



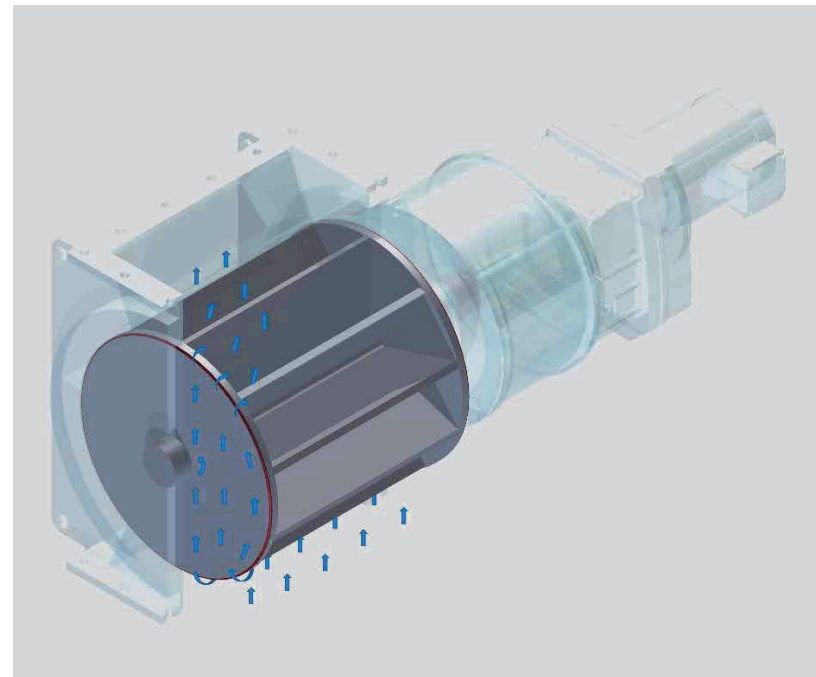
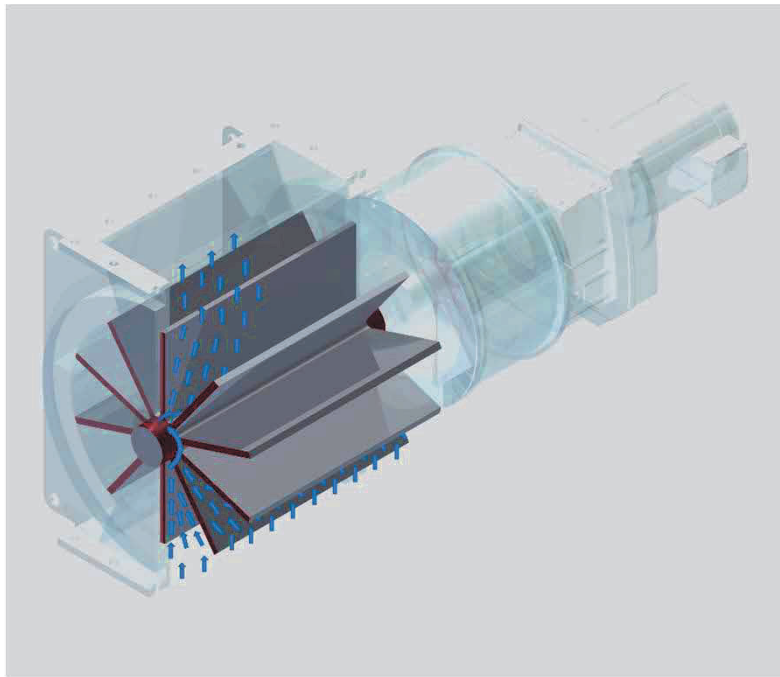
Rotary valves

Range of Application



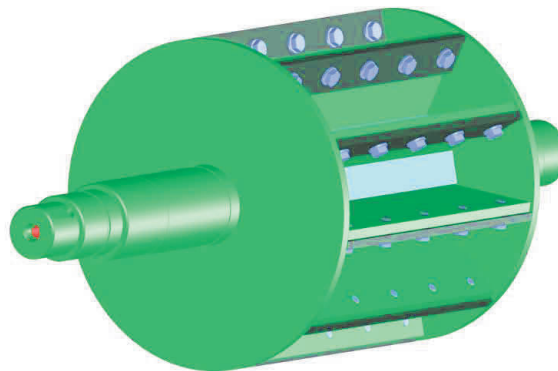
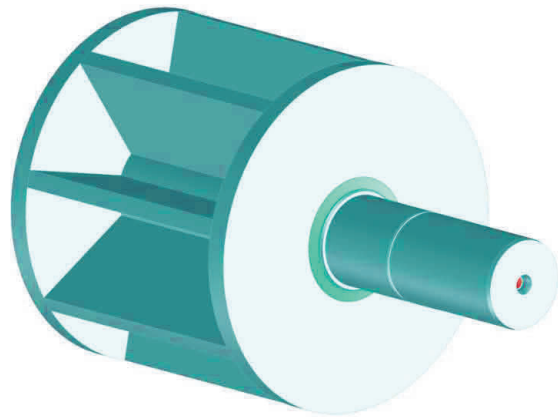
- Explosion protection in Hazard zones
- High temperature
- High abrasive materials
- High pressure
- Customized solutions





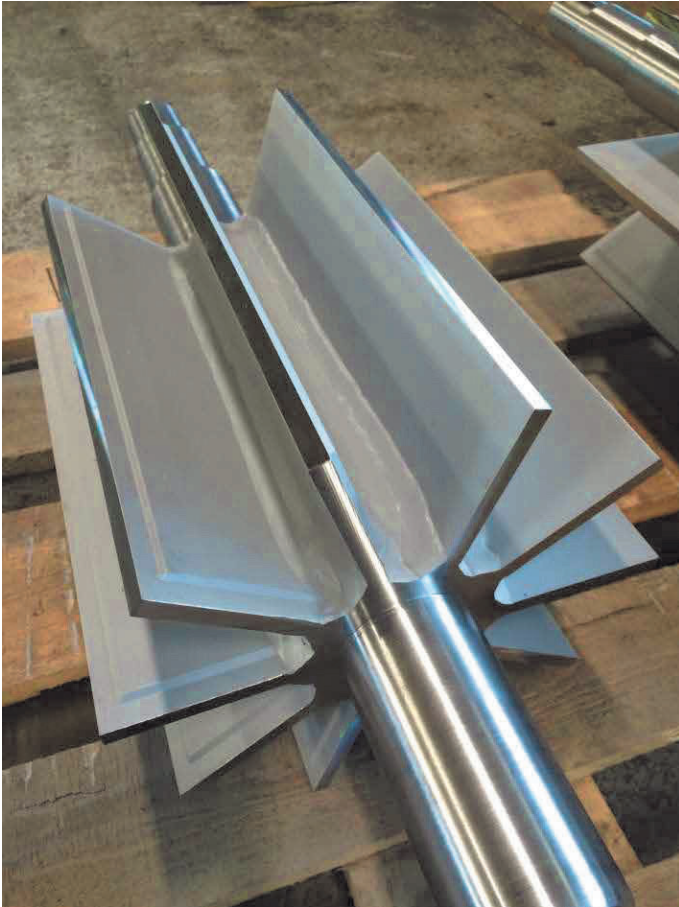
Rotary valves

Closed rotor



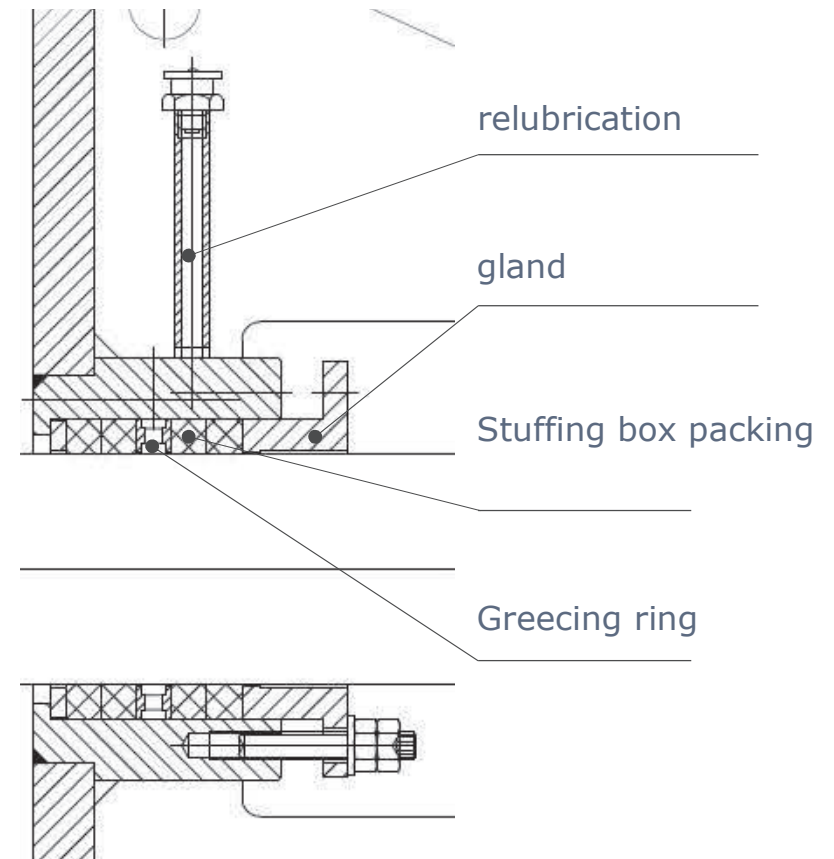
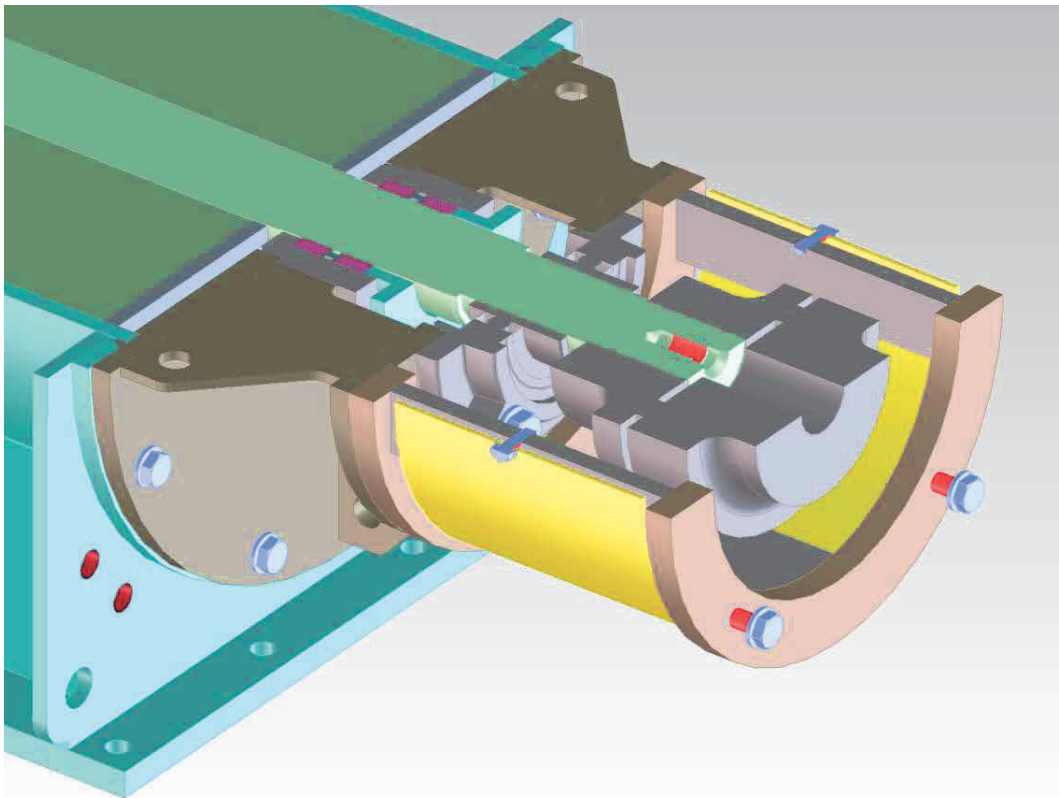
Rotary valves

Open rotor



Rotary valves

Standard shaft sealing and bearings



Rotary valves

Housing wear protection



- Housing bore with tungsten carbide coating or liner
- Hard chrome plated
- Housing bore with ceramic liner
- Wearing bush hardened
- Plating at inlet area



Rotary valves

Rotor wear protection



- Made of Hardox or C45 (hardened)
- Wearing bars hardened, exchangeable
- Rotor with tungsten carbide liner



IBExU Institut für Sicherheitstechnik GmbH
An-Institut der TU Bergakademie Freiberg

(1) Mitteilung über die Anerkennung der Qualitätssicherung Produktion

(2) Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen, Richtlinie 94/9/EG

(3) Mitteilungsnummer: **IBExU03ATEX Q003**

(4) Produktkategorie: Schutzsystem Zellenradschleusen

(5) Hersteller: Kriesel GmbH & Co. KG
Umwelttechnik

(6) Anschrift: Mühlenstraße 28
D-09597 Krauschwitz

(7) Fertigungsstätte: am Firmensitz

(8) IBExU Institut für Sicherheitstechnik GmbH, BENANNTE STELLE Nr. 0637 nach Artikel 9 der Richtlinie 94/9/EG des Europäischen Parlamentes und des Rates vom 23. März 1994, bestätigt dem Hersteller, daß er an der unter (7) aufgeführten Fertigungsstätte ein Qualitätssicherungssystem für die Herstellung, Endabnahme und Prüfung der unter (4) genannten Produktkategorie unterhält, das dem Anhang IV dieser Richtlinie genügt.

(9) Diese Mitteilung basiert auf dem Auditbericht Nr. IB-02-3-818 vom 01.04.2003. Sie ist gültig bis 31.03.2006. Diese Mitteilung kann zurückgezogen werden, wenn der Hersteller die Anforderungen des Anhangs IV nicht mehr erfüllt. Die Ergebnisse des Überwachungsaudits des Qualitätssicherungssystems sind Bestandteil dieser Mitteilung.

(10) Gemäß Artikel 10 (1) der Richtlinie 94/9/EG ist hinter der CE-Kennzeichnung die Kennnummer 0637 von IBExU als die benannte Stelle anzugeben, die in der Produktionsüberwachungsphase tätig wird.

IBExU Institut für Sicherheitstechnik GmbH
Fachmühlenweg 7 · D-09500 Freiberg
Tel.: 03731 3805-0 Fax: 03731 23650

Zertifizierungsstelle
Explosionsschutz

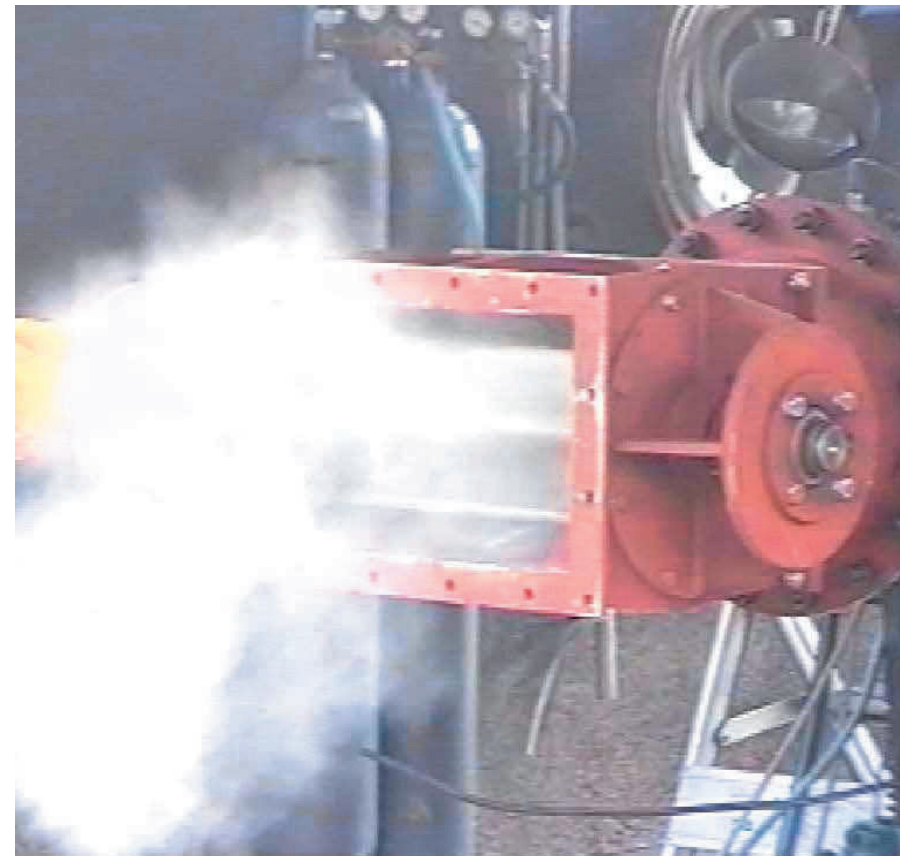
Im Auftrag
Lothar
(Dr. Lösch)


Freiberg, 01.04.2003



Bescheinigungen ohne Unterschrift und ohne Siegel haben keine Gültigkeit. Bescheinigungen dürfen nur unverändert weitervertrieben werden.

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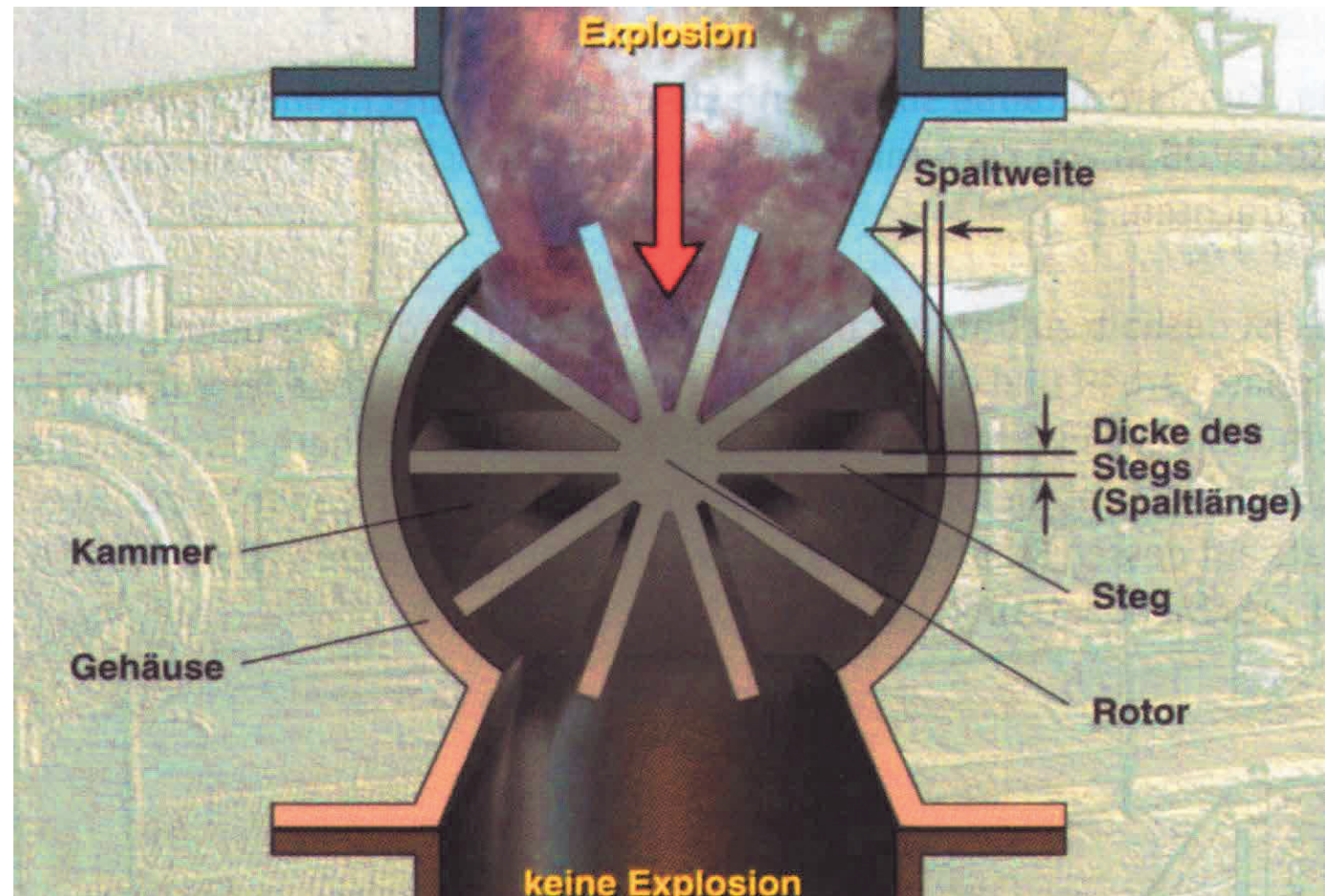


Rotary valves

Explosion protection



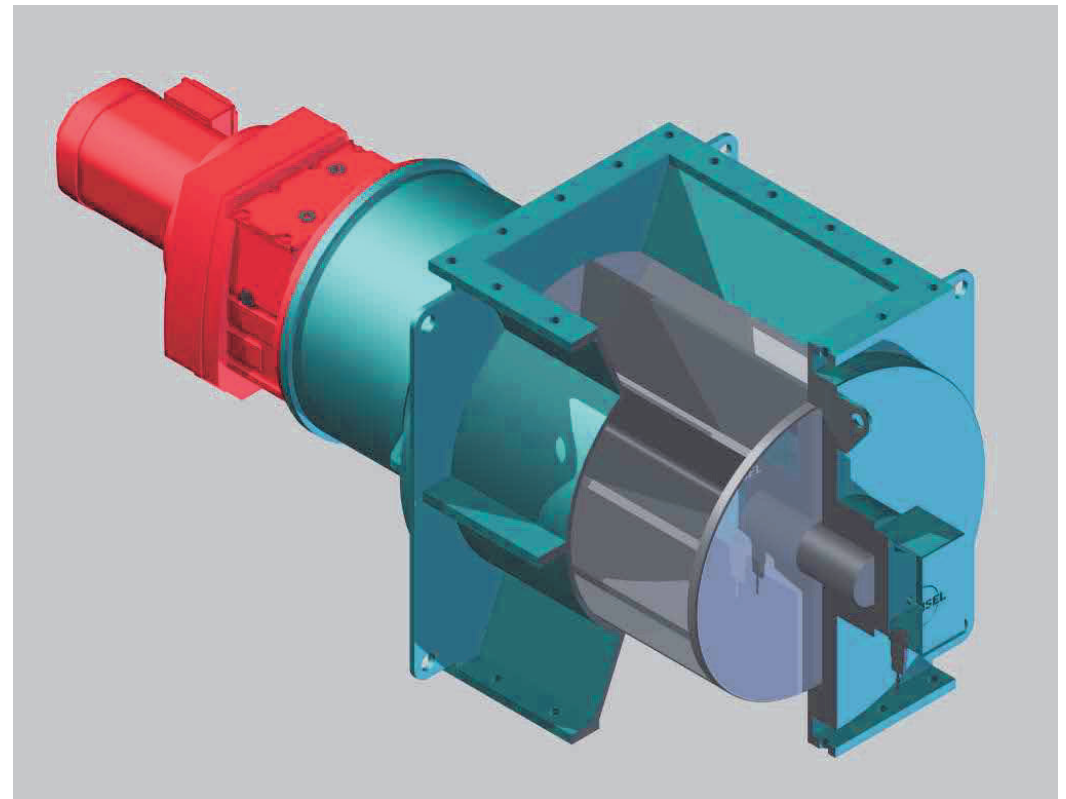
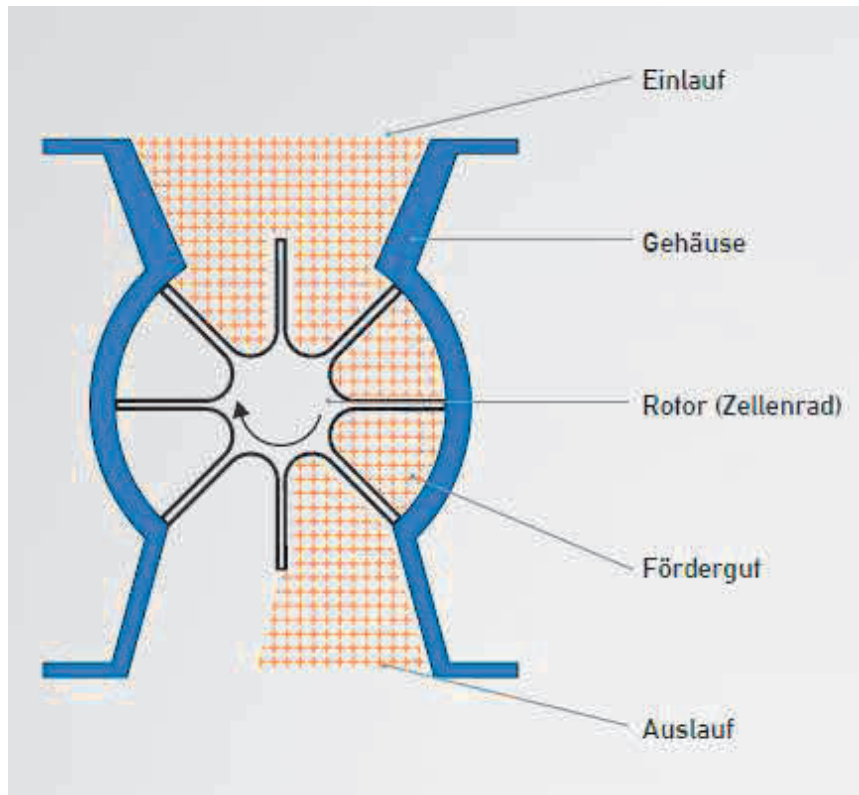
- Suitable for ATEX-zonen 20 to 22
- Safety system or device acc. 2014/34/EG
- Temperature up to 80°C
- Up to 0,1 bar pressure differenz
- Pressure shock resistant up to 10 bar
- Flameproofed up to 10 bar / 1,5 bar
- For organic dust (coal*, sugar, meal, wood dust, etc.)



KREISEL Valve Types

Rotary valves

Standard vertical design



Rotary valves

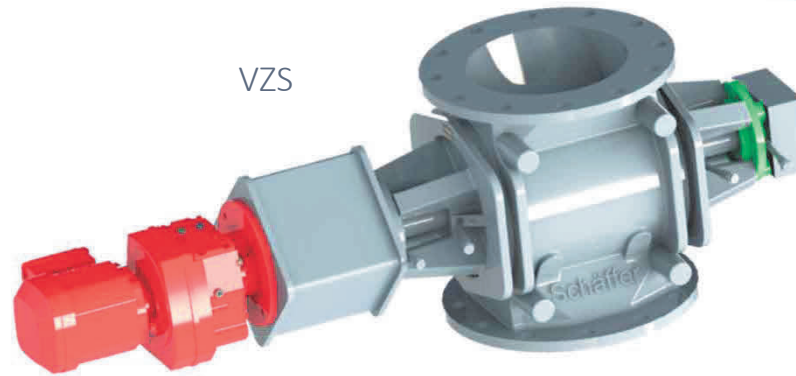
Standard vertical design



ADG



VZS

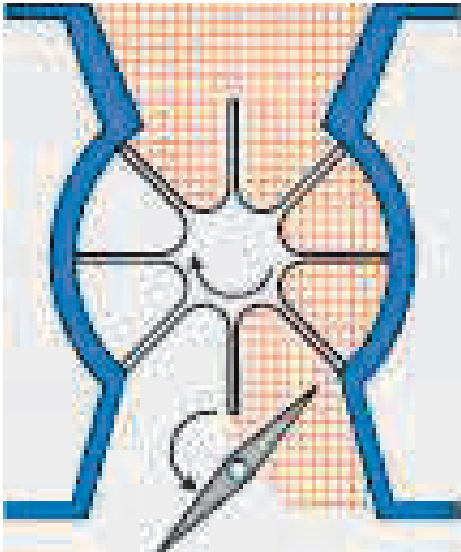


ZSK / ZSL



Rotary valves

Self cleaning design



RDG / ZSR

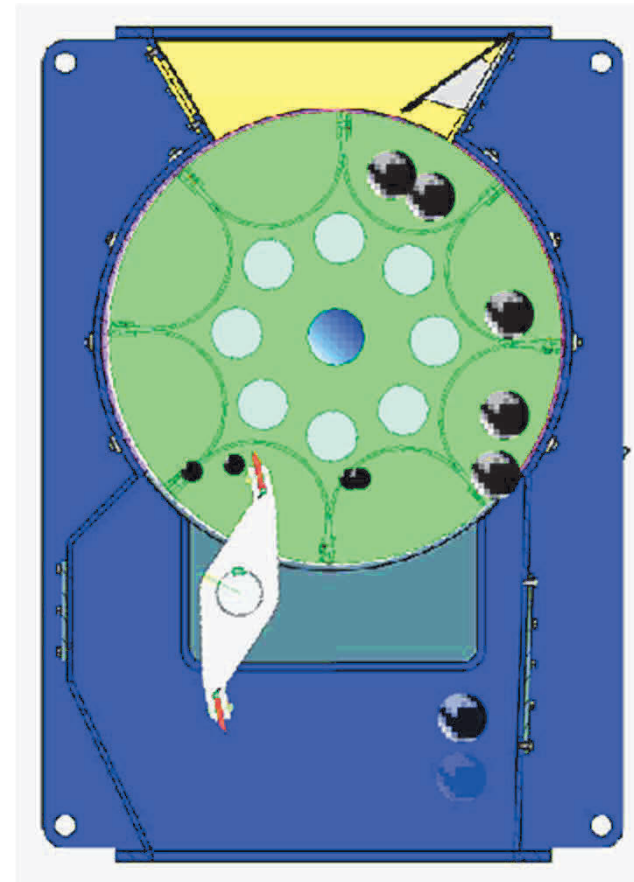


Rotary valves

Self cleaning design



- for sticky materials
- pressure-shock resistant and flame penetration proofed with certificate
- wearing protection made of ceramic, tungsten carbide, wearing bars hardened ...

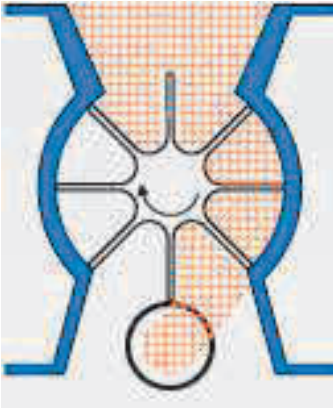


Rotary valves

Blow through design



ZSD



Rotary valves

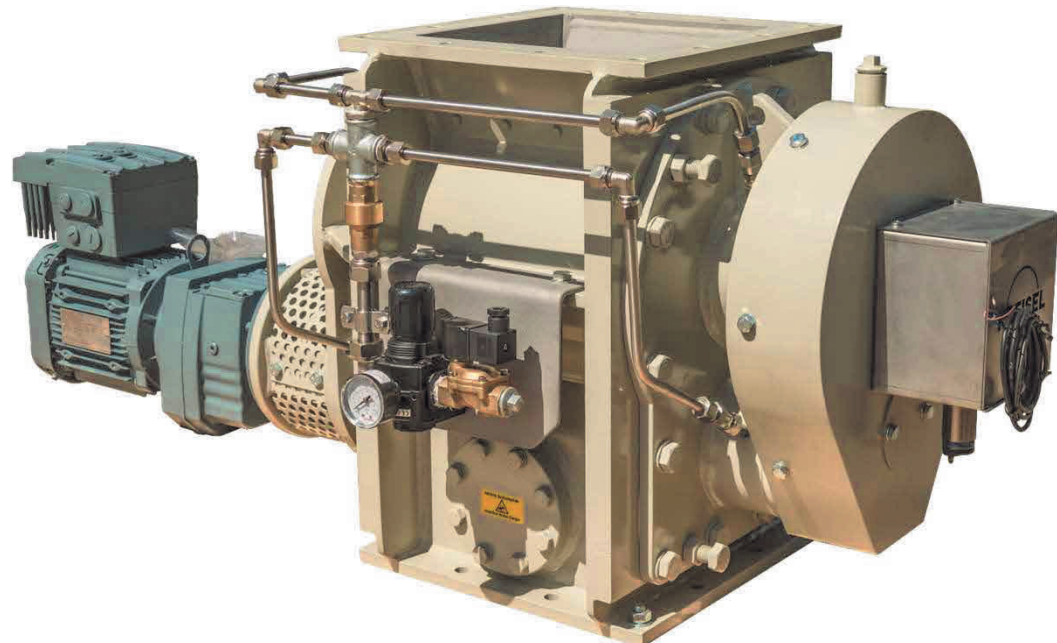
High pressure design



ZSV-H

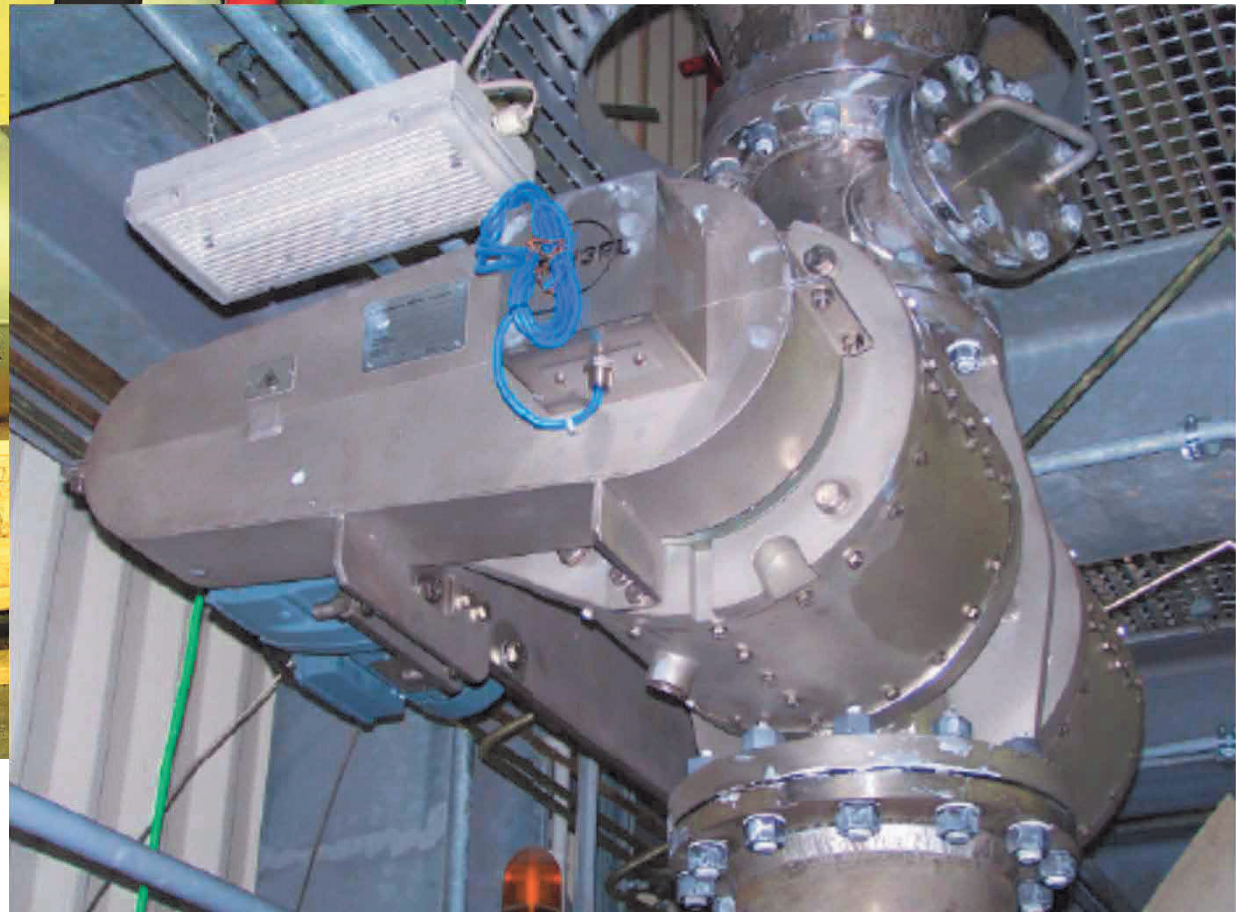
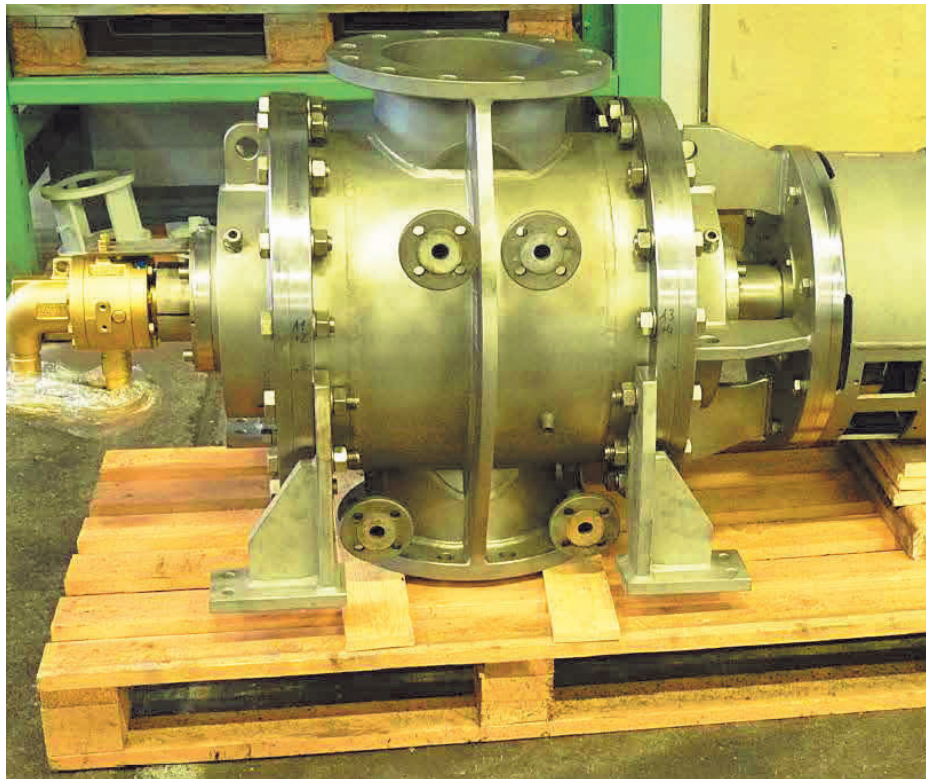


ZSR-H



Rotary valves

Customized design



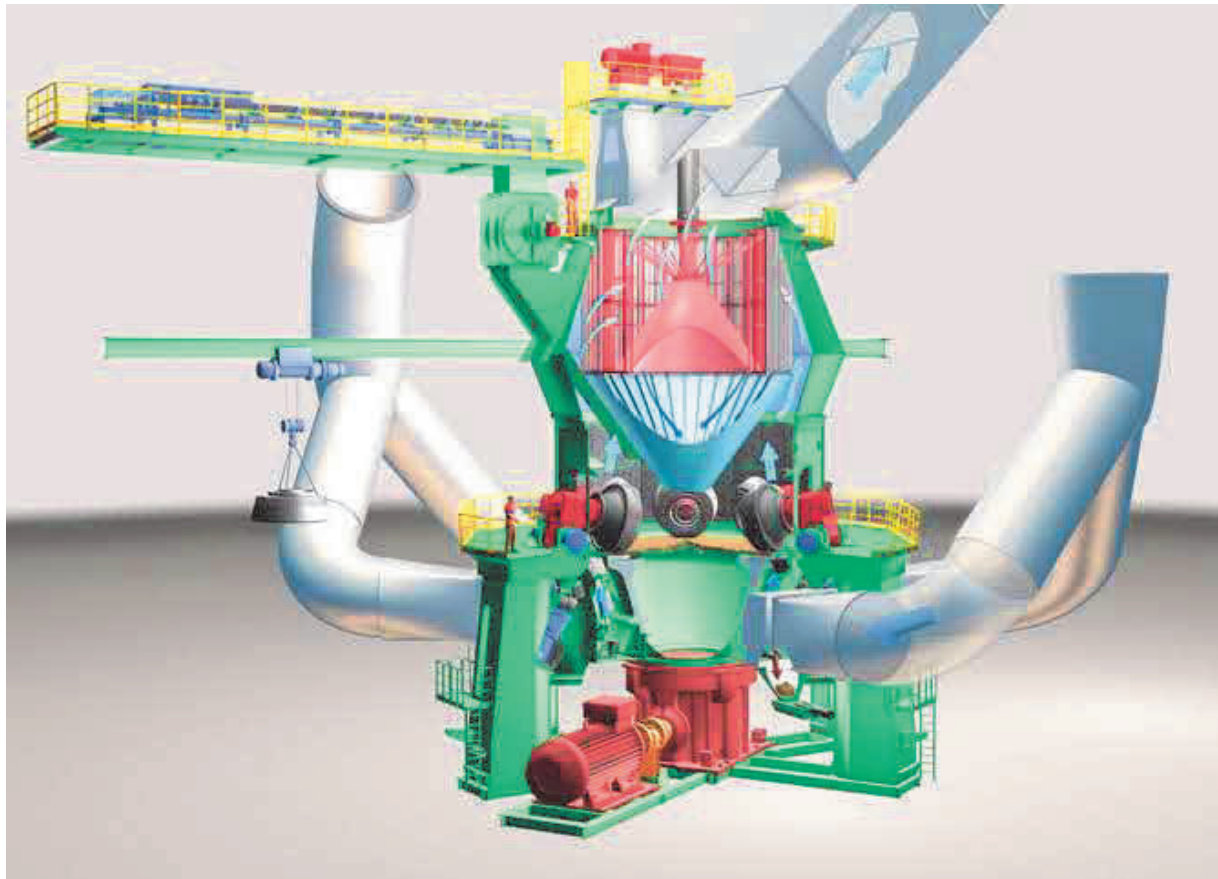
Application in cement plants

Rotary valves

Mill - feeder



- VRM, ball mills, drier chrusher
- Raw material, clinker, coal, additives
- Capacity up to 1000 t/h
- Grain size up to 250 mm

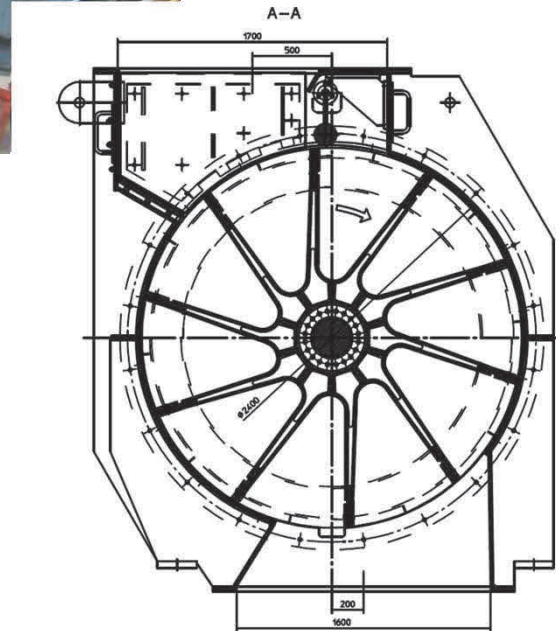


- impact wear
- Fretting
- jet erosion



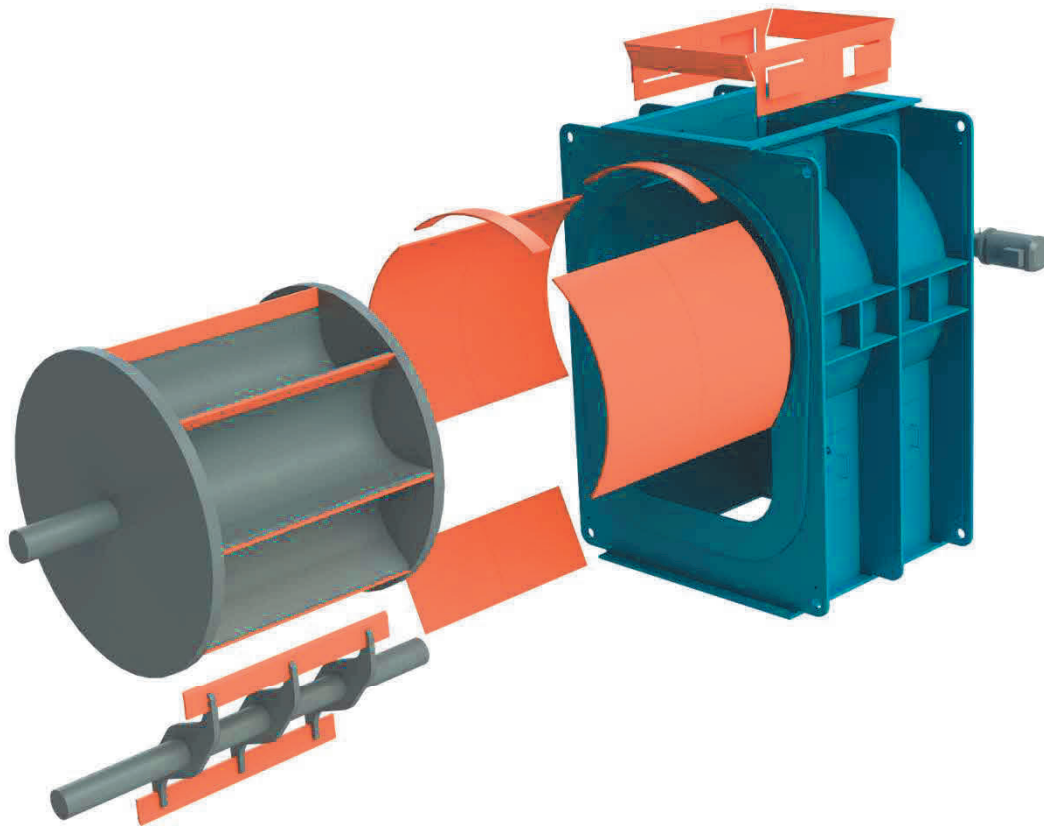
Rotary valves

For dry raw material



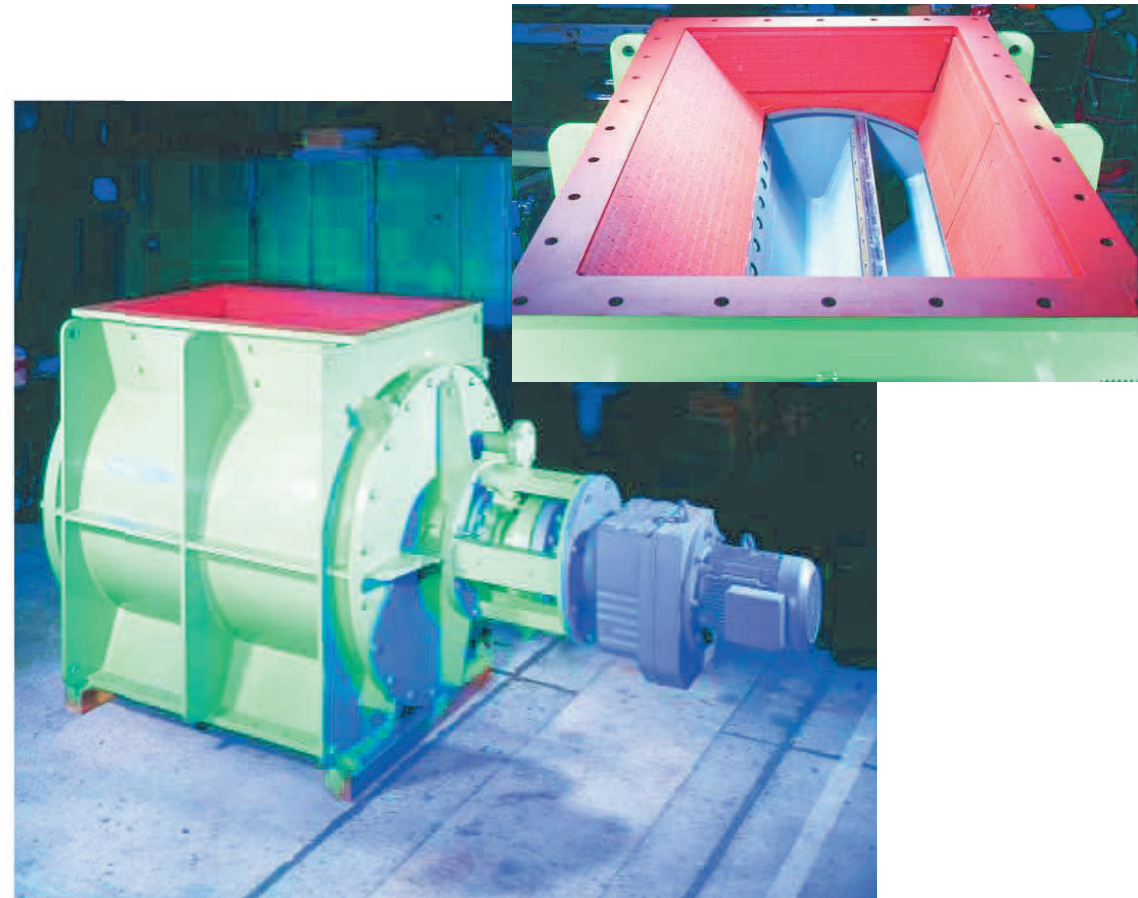
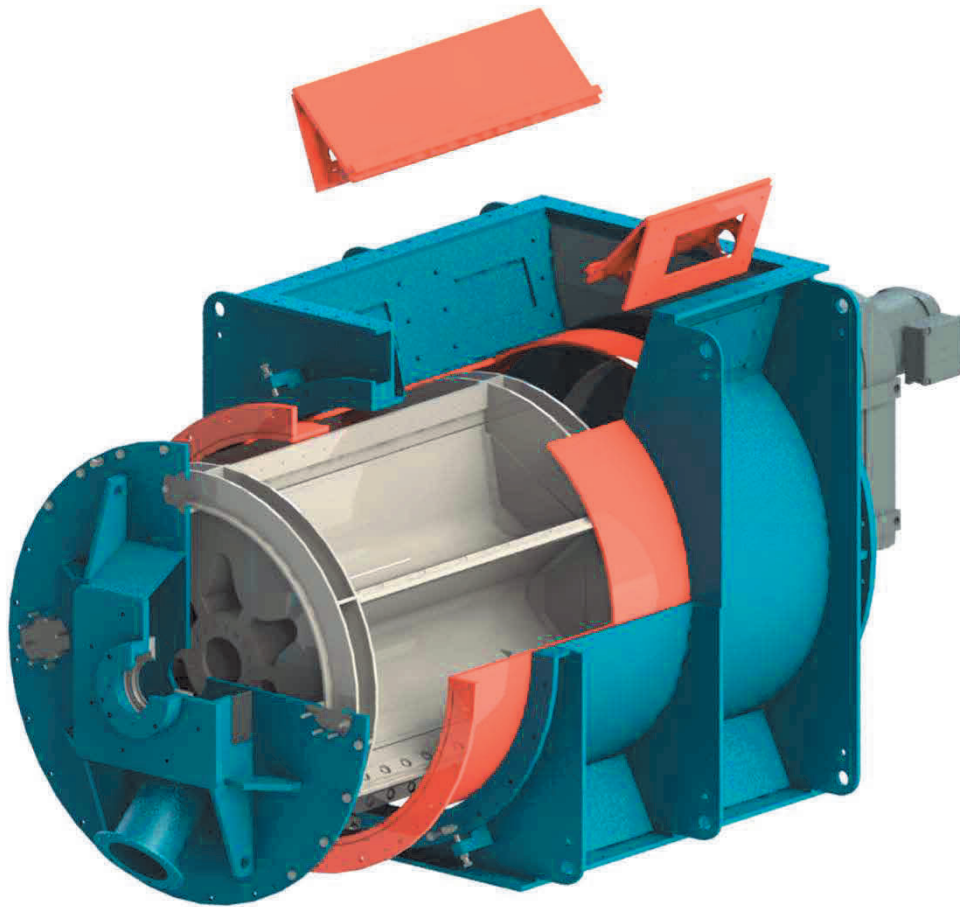
Rotary valves

For wet raw material



Rotary valves

For clinker and slag



Rotary valves

Reinforced design for clinker



Rotary valves

Support construction



Parameter

- Pressure difference up to 100 mbar
- Temperature up to 250 °C
- Type ZSV/ADG

Design

- closed rotor
- Wearing bars
- Made of carbon steel
- special (CH₄ – measurement)
- In combination with slide gates and truck loading stations



Rotary valves

Filter and cyclone discharge



Parameter

- Pressure difference 100 mbar
- Temperature up to 110 °C
- Type ZSK / ZSV

Design

- Closed rotor
- Without wearing bars
- Made of carbon steel



Parameter

- Capacity up to 200 m³
- Temperature max. 850 °C
- RDF, Fluff, shredded tires, etc.

Application

- Feeding into calciner
- feeding into burner
- feeding into kiln
- In combination with an hot gas slide gate



Rotary valves

Preheater feeding



Parameter

- Capacity up to 1000 m³
- Temperature max. 550 °C, peaks up to 700°C
- Cement raw meal

Design

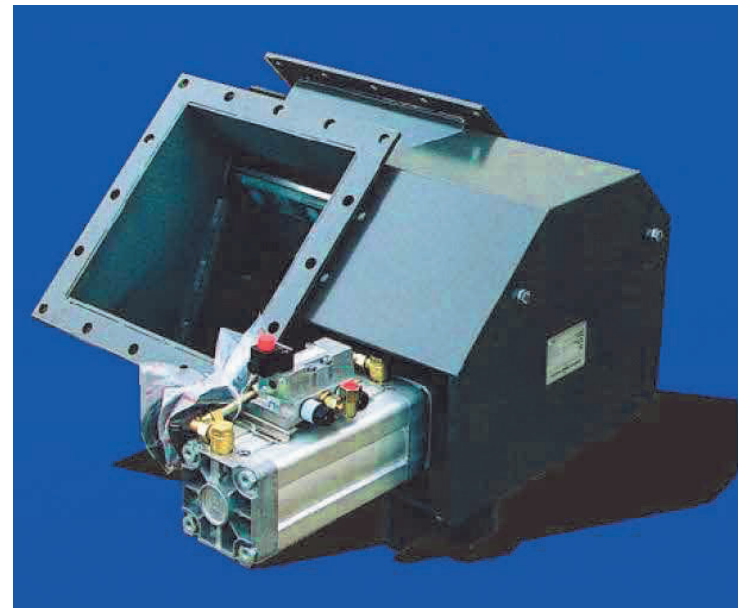
- Closed rotor
- With wearing bars
- Made of carbon steel / 16Mo3
- In combination with an hot gas slide gate as safety device



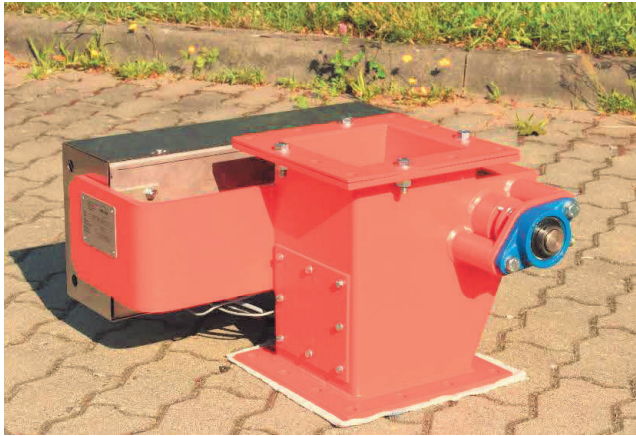
Two – way – distributor



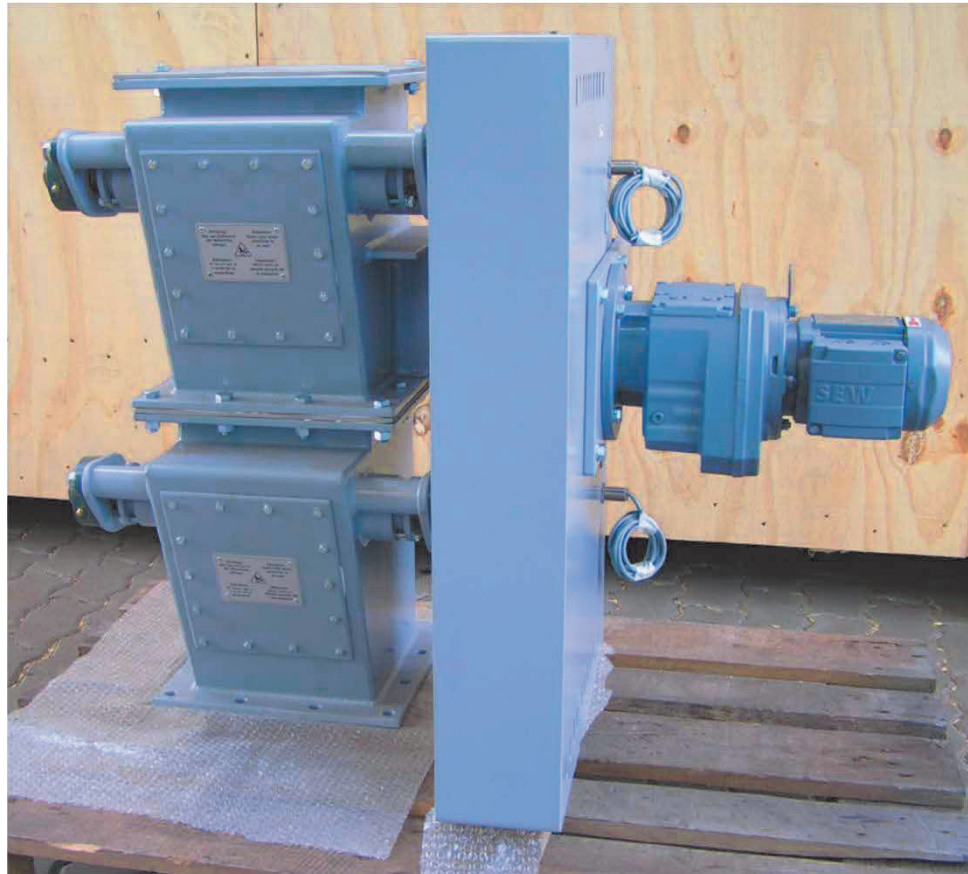
- used as control components
- wear protected construction
- pressure shock resistant design
- operated electrically, pneumatically or manually



Flap gates



- sealing and feeding device
- for fine dust to coarse bulk materials
- suitable for temperature up to 600°C
- operated electrically, pneumatically or manually
- wear-resistant design



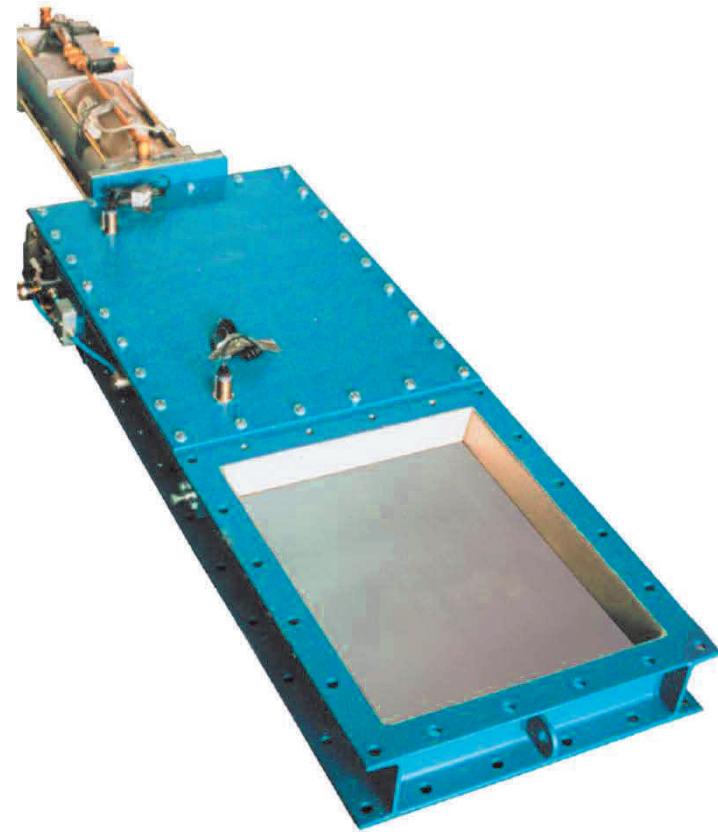
Slide gates



ASL



ASS



Slide gates



- flushing air
- end positions sensors
- suitable for temperature up to 850°C

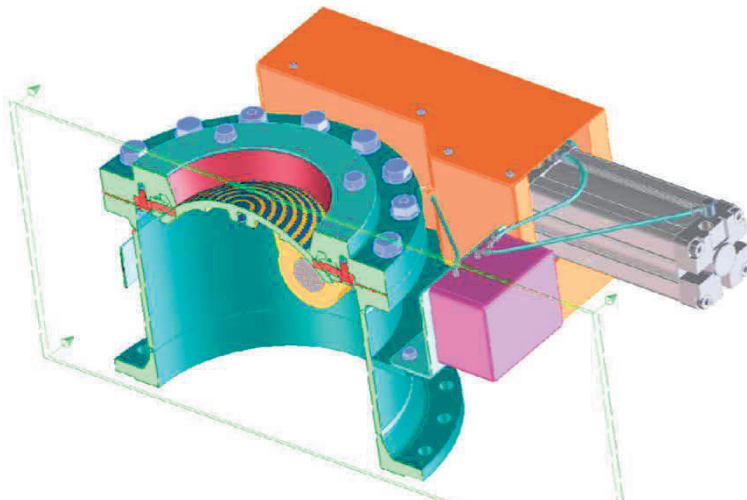
- used as locking, metering and safety components
- pressure shock resistant design
- operated electrically, pneumatically or manually



KREISEL DOM-VALVE®



- used as shut- off valve
(priority in pneumatic systems)
- abrasive bulk material
- suitable for pressure differentials up to 16 bar
- suitable for temperature up to 200 °C
- seals process spaces free of leakage air
- special model according customer requirement
- size, DN 100 – DN 500



Pressure Vessels



Thank you very much for your attention !

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