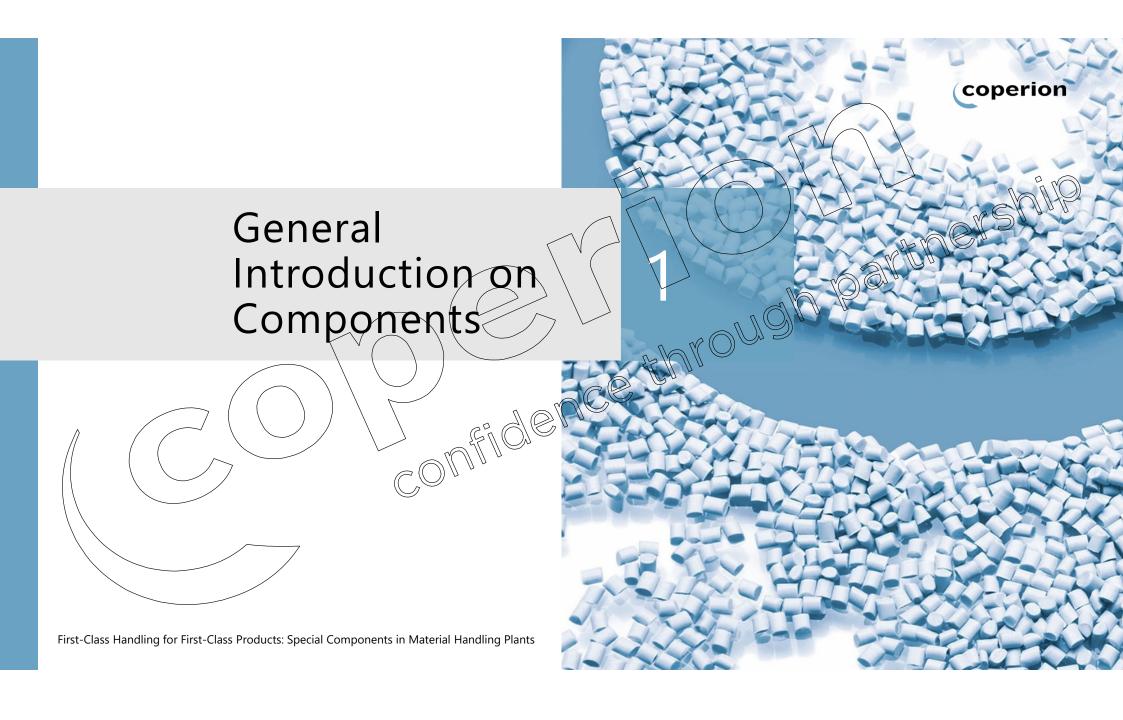
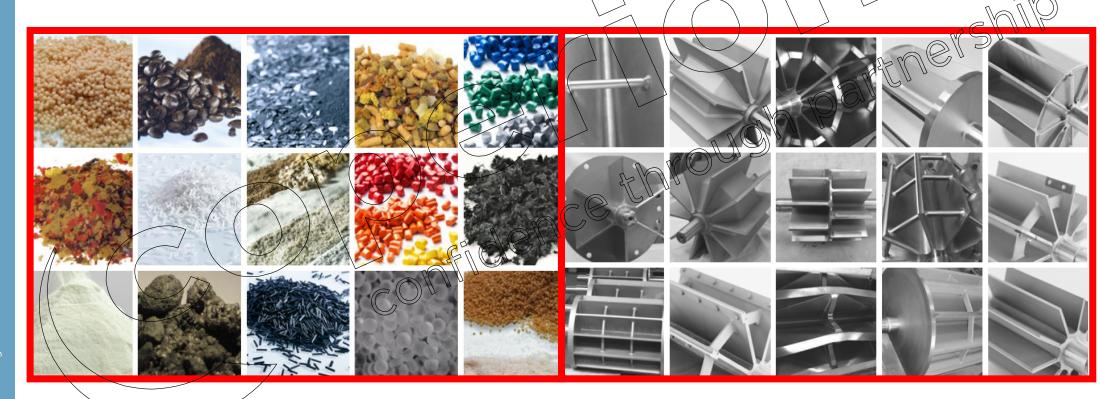


Contents

Р	os.	Topics
	1.	General Introduction on Components
	2.	General Introduction on Components Rotary Valve Type and Application Factures that have fit with the confit of t
	3.	Features that benefit customer: • Anti-chopping • Purge gas • Quick cleaning • Extraction Device
	4.	Wear Protection Concept for Components
	5.	Explosion Protection for Rotary Valve
	6.	Diverter Valve



Coperion material handling component is tailored to every material and process requirement.

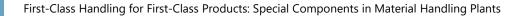


Coperion Components at a Glance

- ☐ More than **200,000** components delivered
- ☐ 4 industries served: Plastic, Chemicals, Food, Minerals
- □ Product throughput range of 30 to 300,000 kg/h
- ☐ 4 production sites: Weingarten / Nanjing / Satina / Noida
- □ No 1 in components innovations: more than 30 active patents

worldwide





coperion

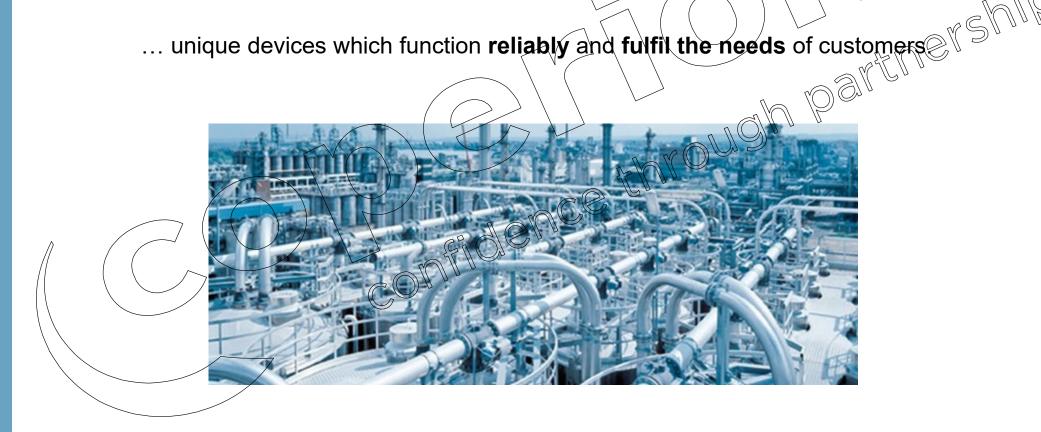
COPERION

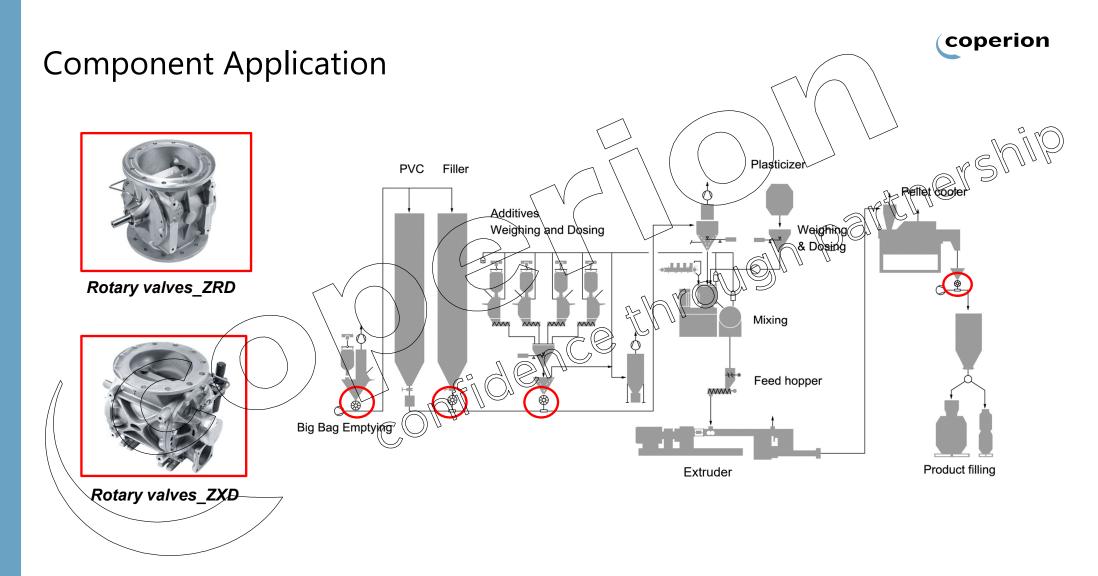
COMPONENTS

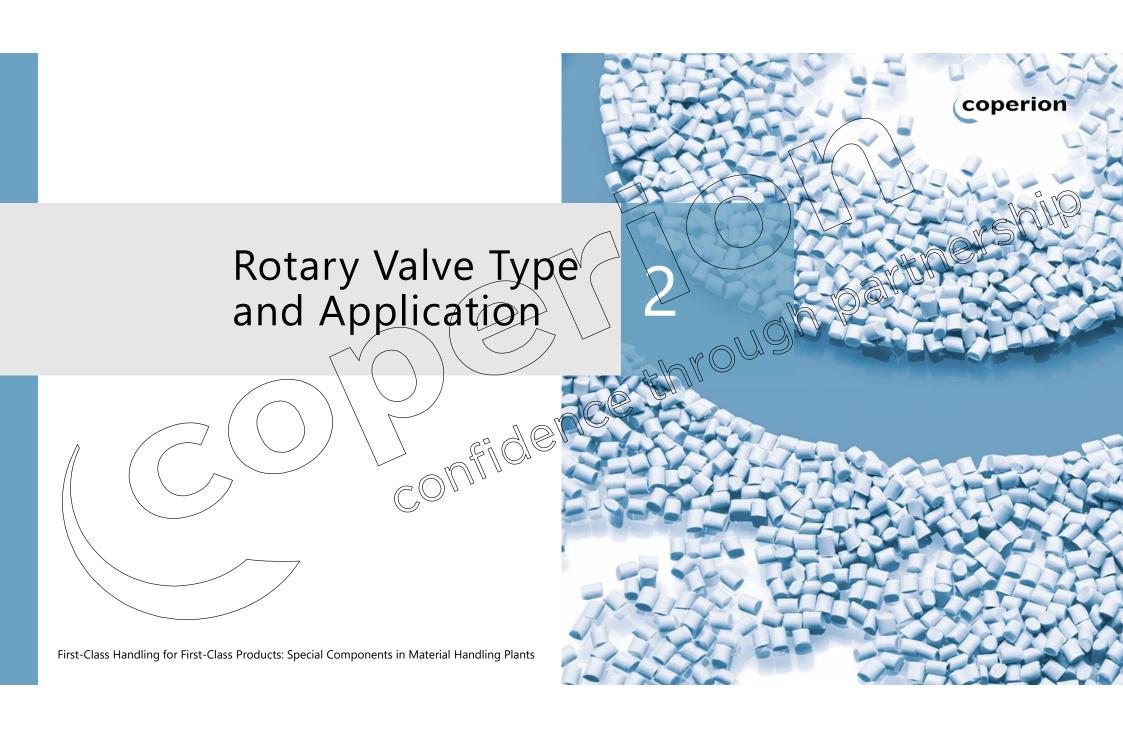
AND PROCESS PARTS

coperion

Coperion Components pursue two missions...







COPERION ROTARY VALVE TYPE

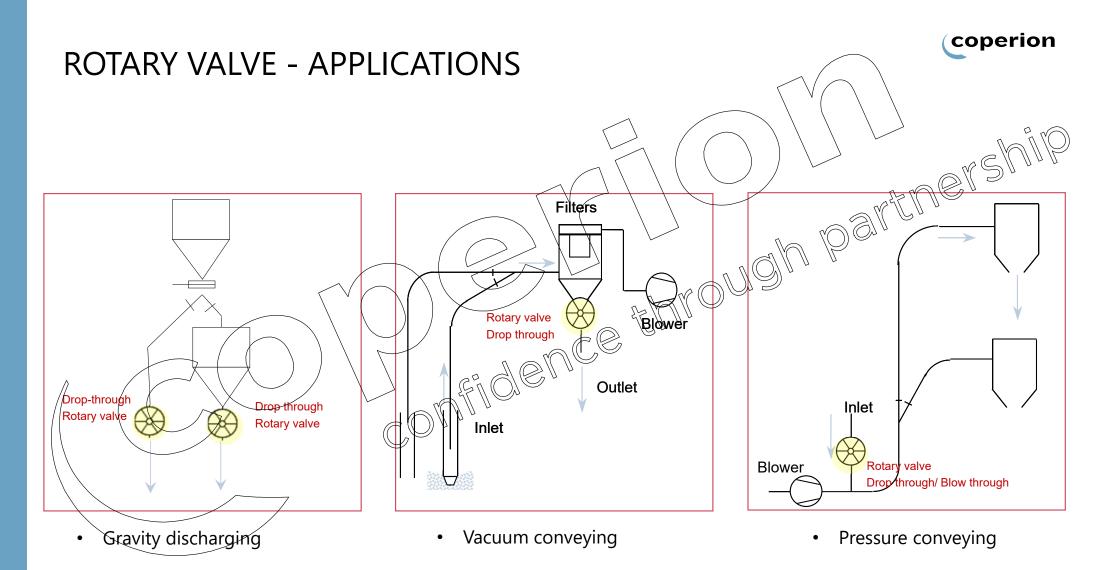
The **two** different executions:



- >> Blow through rotary valve
- Emptying the chambers with conveying gas
- Better efficiency
- Suitable for adhesive and cohesive products
- Only in combination with pneumatic conveying system

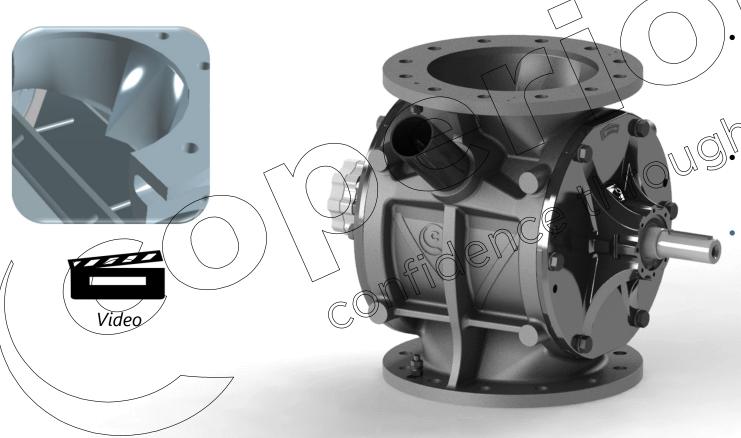
coperion

- thershi





3.1 Anti-Chopping Inlet for Pallets



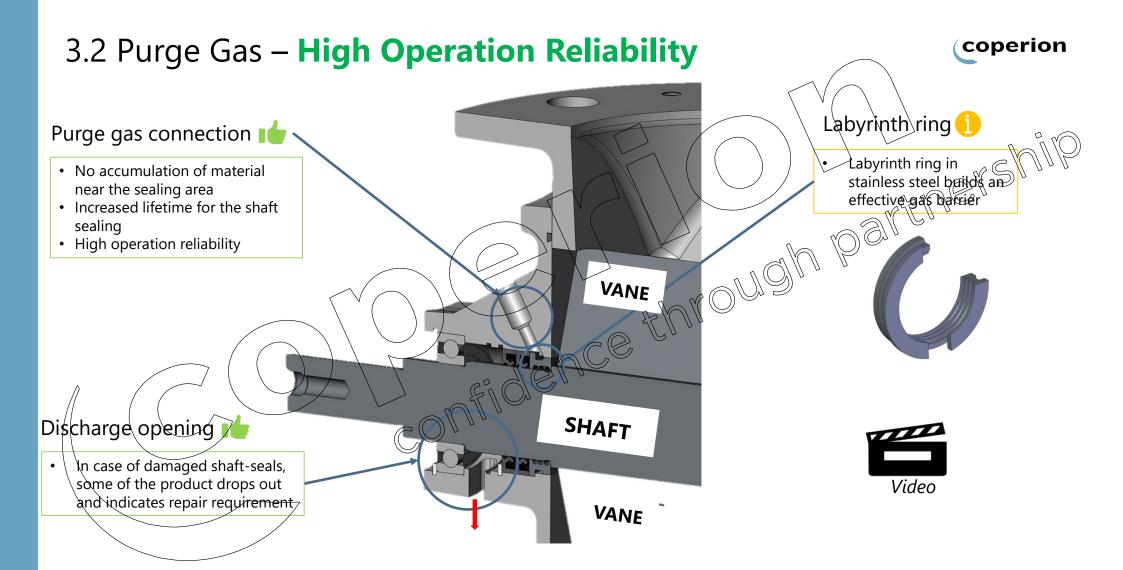
Special inlet geometry

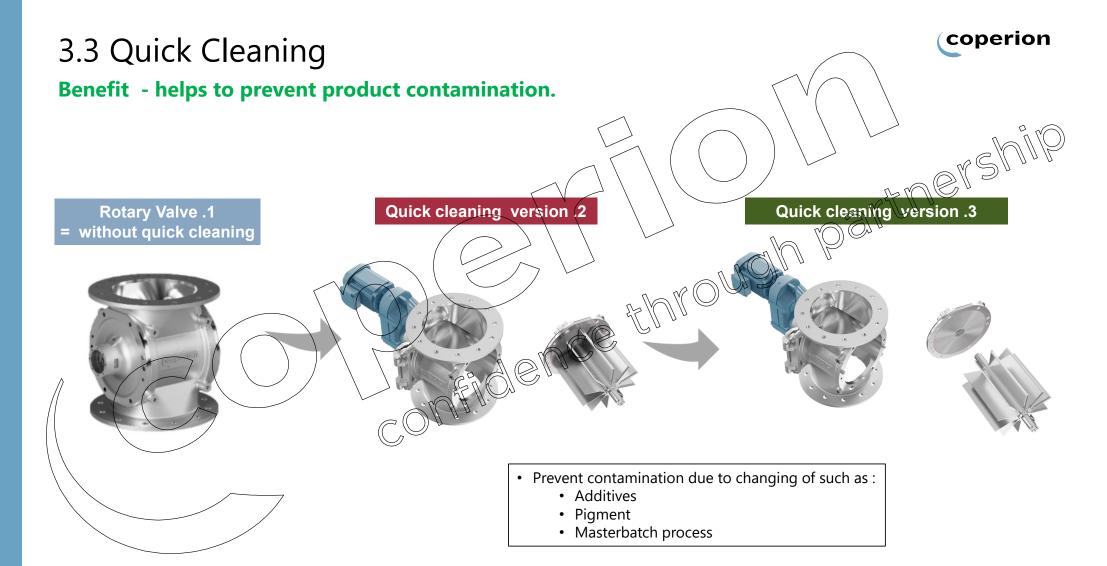
coperion

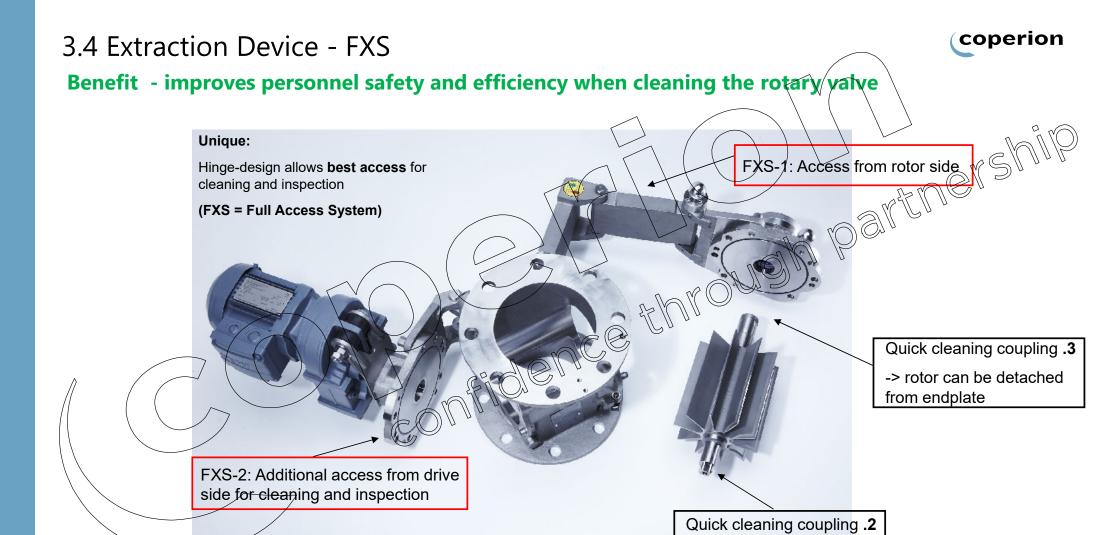
high product guality built for gentle product handling (patented)

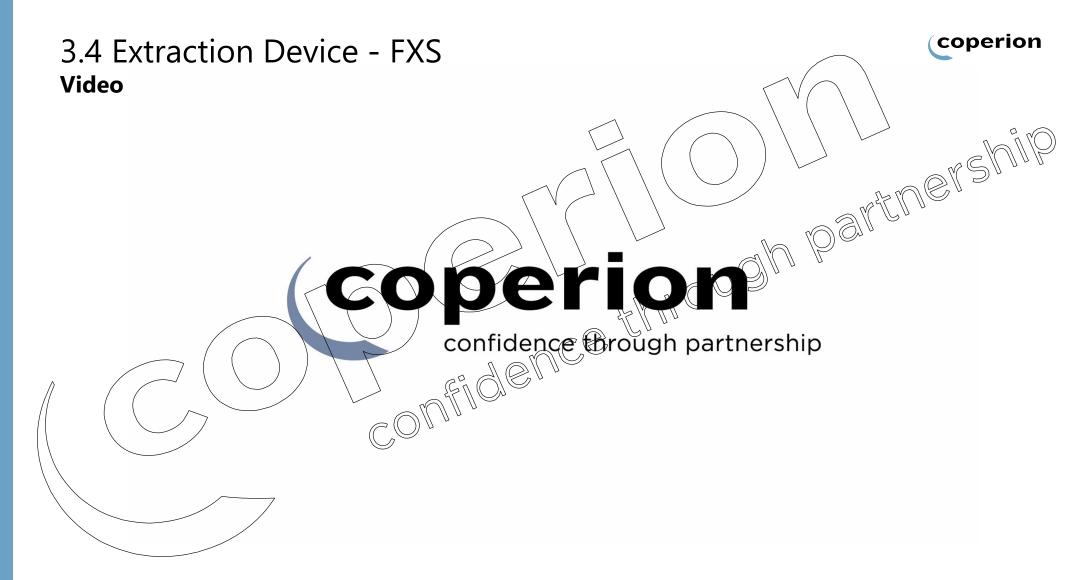
Large inlet – **Higher filling** rate

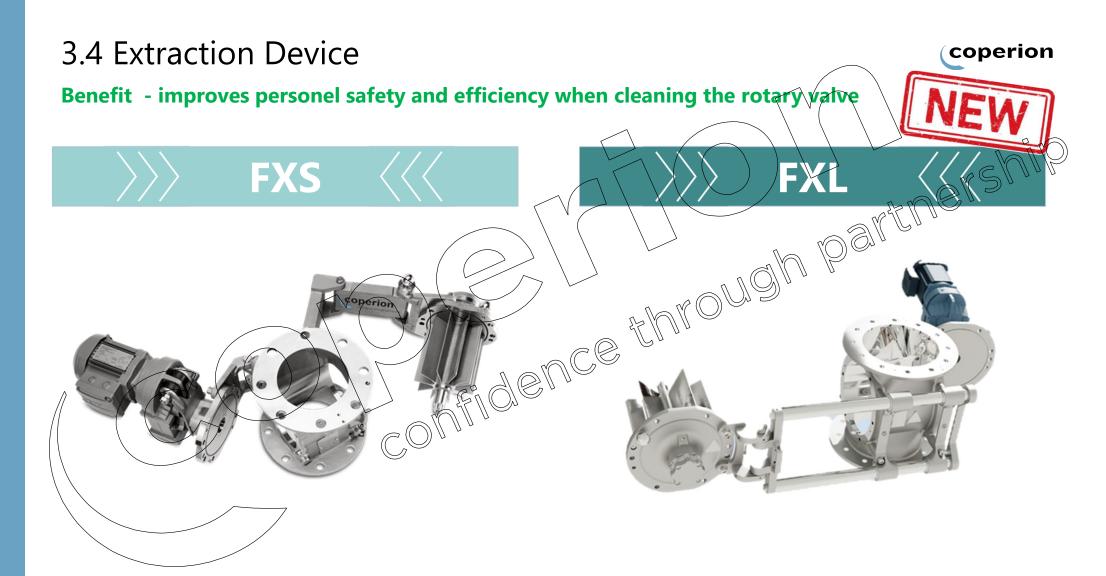
With feeding shoe suitable for feeding bulk materials into pneumatic conveying systems

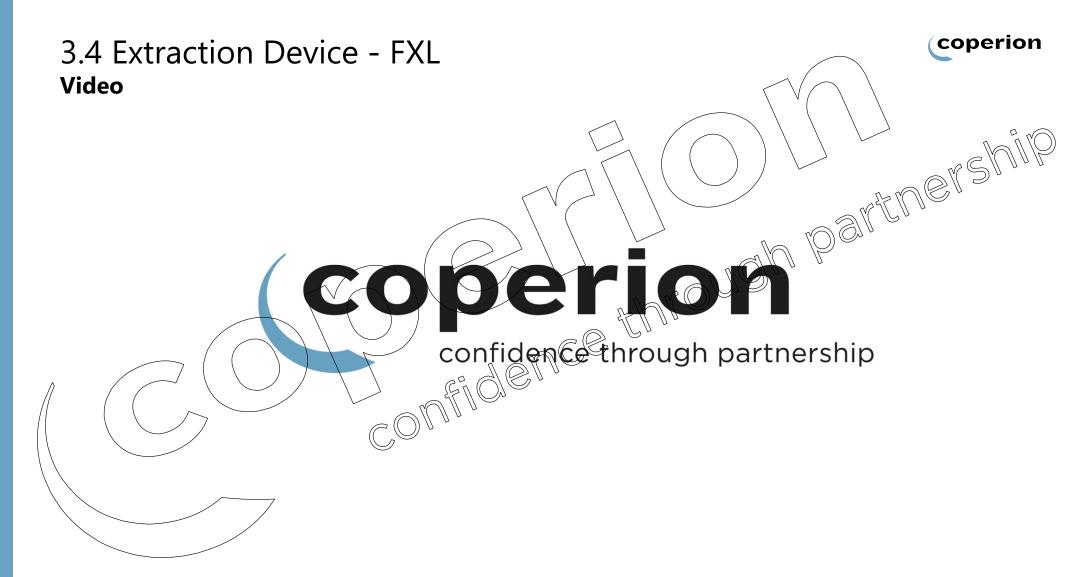




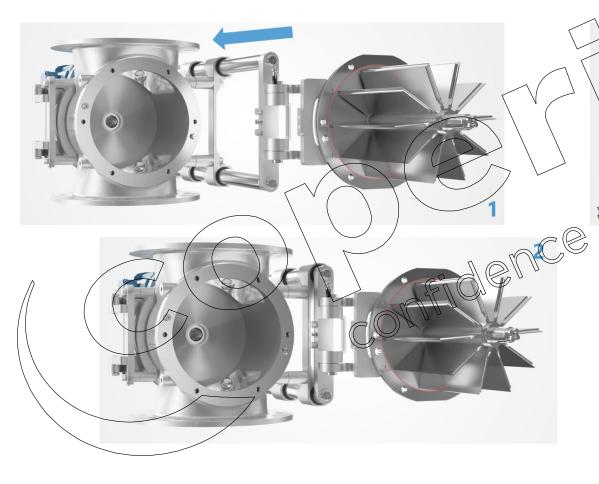








3.4 Extraction Device - FXL (FXL = Full Access Linear)





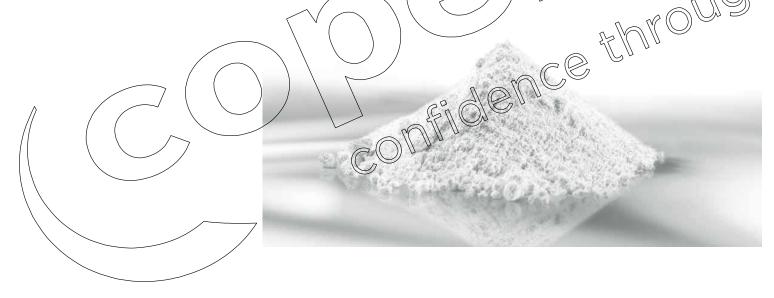
- -> rotor and bars never in the way
- -> full and best access for cleaning and inspection

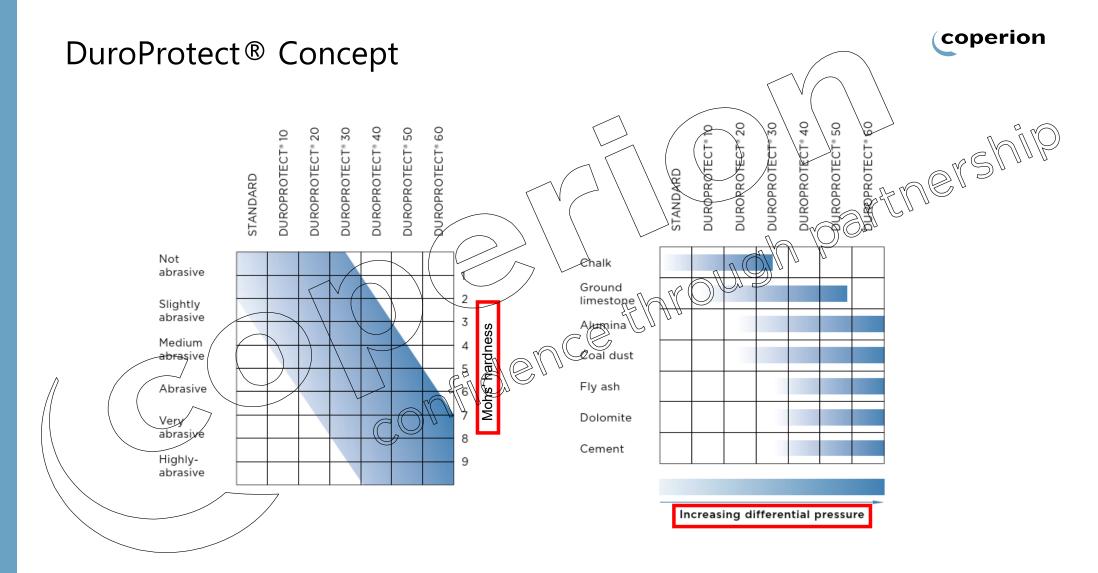


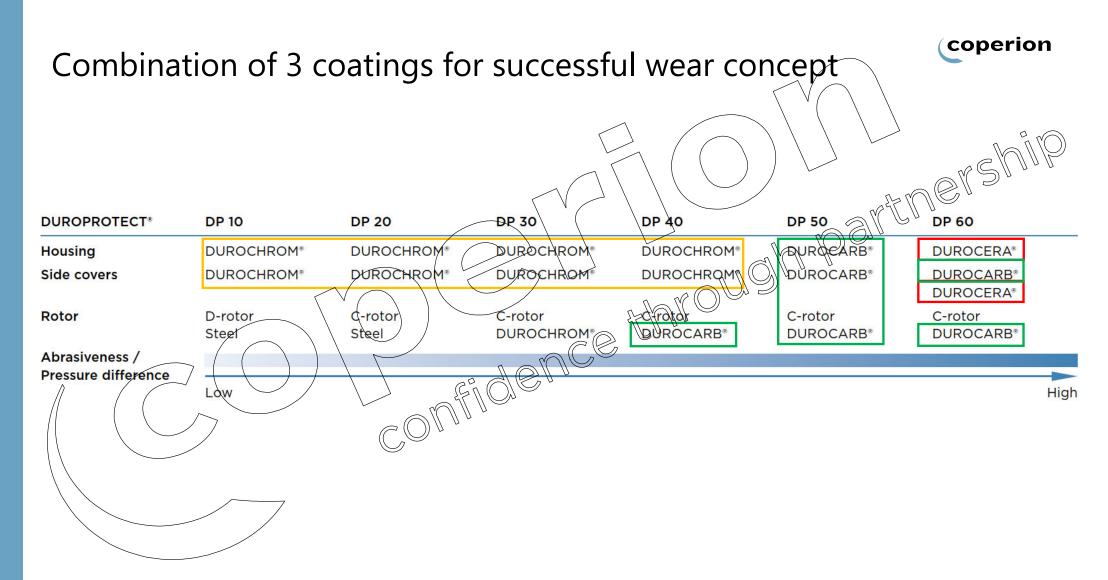
(coperion

>> Track-proven wear protection concepts for a long service life.

A high degree of availability and a long service life with abrasive products such as glass fibre, titanium dioxide, talcum, silica, and other minerals in general are only possible with an effective protection concept which not only takes into account the product characteristics but also the operating conditions.







Combination of 3 coatings for successful wear concept

DUROCHROM	DUROCARB	DUROCERA
 Hard chrome coating up to 400µm Rotor tips, side plate and housing Ensures low leakage gas in the long term 	- Rotor chambers and side plate tungsten carbide sprayed - Rotor bridge tungsten carbide welded	- monolithic or seamlessly inserted full ceramic in the housing bore - Highest wear protection

Component in wear protection

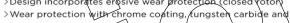
DUROPROTECT 10, ROTARY VALVE TYPE ZRD

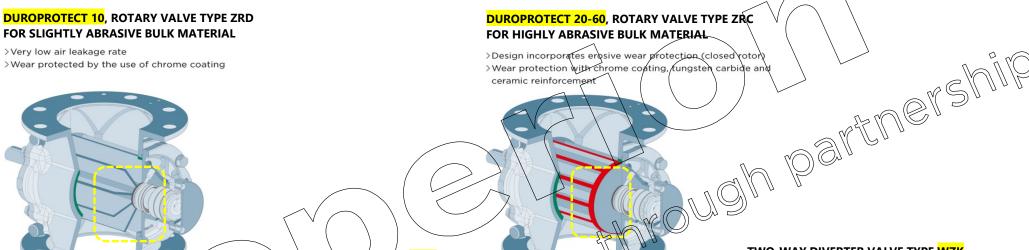
FOR SLIGHTLY ABRASIVE BULK MATERIAL

> Very low air leakage rate

DUROPROTECT 20-60, ROTARY VALVE TYPE ZRC FOR HIGHLY ABRASIVE BULK MATERIAL

> Design incorporates erosive wear protection (closed rotor)



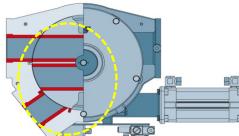


TWO-WAY DIVERTER VALVE TYPE WRK WITH WEAR PROTECTION RING

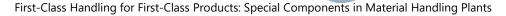
- >Wear protected by a cushion of bulk material
- Minimal number of seals and moving parts
- > Available as a diverging and converging divert
- > Can be installed in all positions
- >45° outlet for the connection of

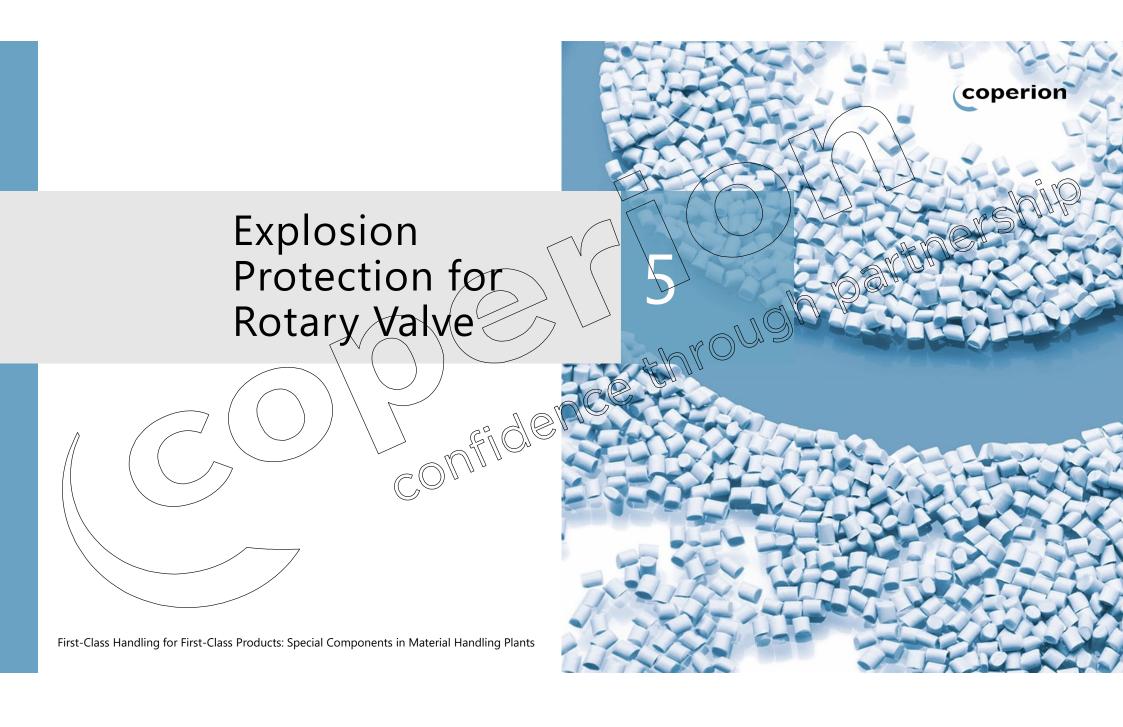
>Residue-free >Wear protection with customized pipe inserts > Available as a diverging and converging diverter >Can be installed in all positions

WEAR RESISTANT VERSION



TWO-WAY DIVERTER VALVE TYPE WZK,





ATEX Conformity

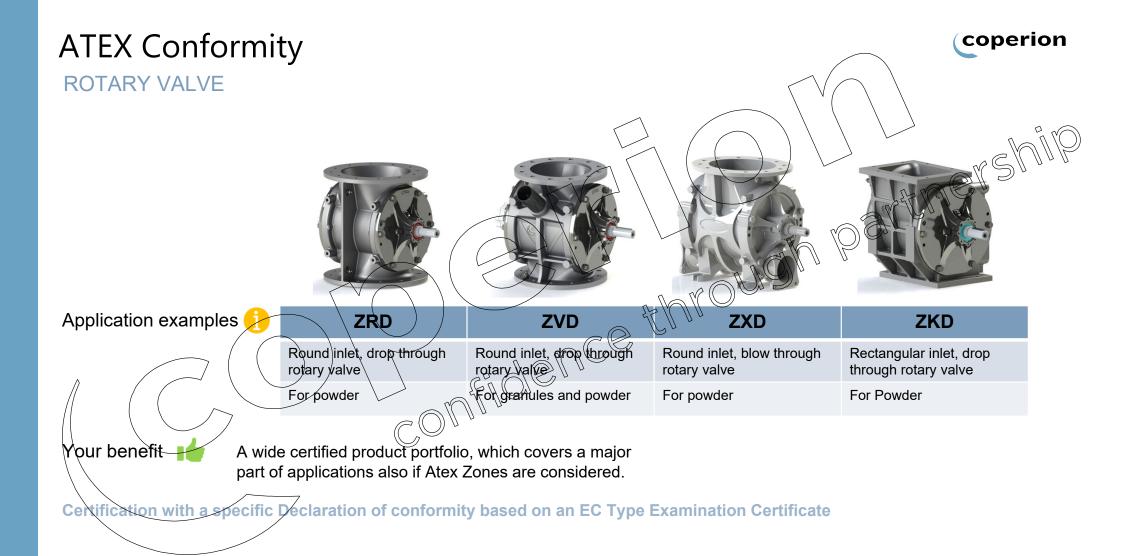
Benefit – For plant safety

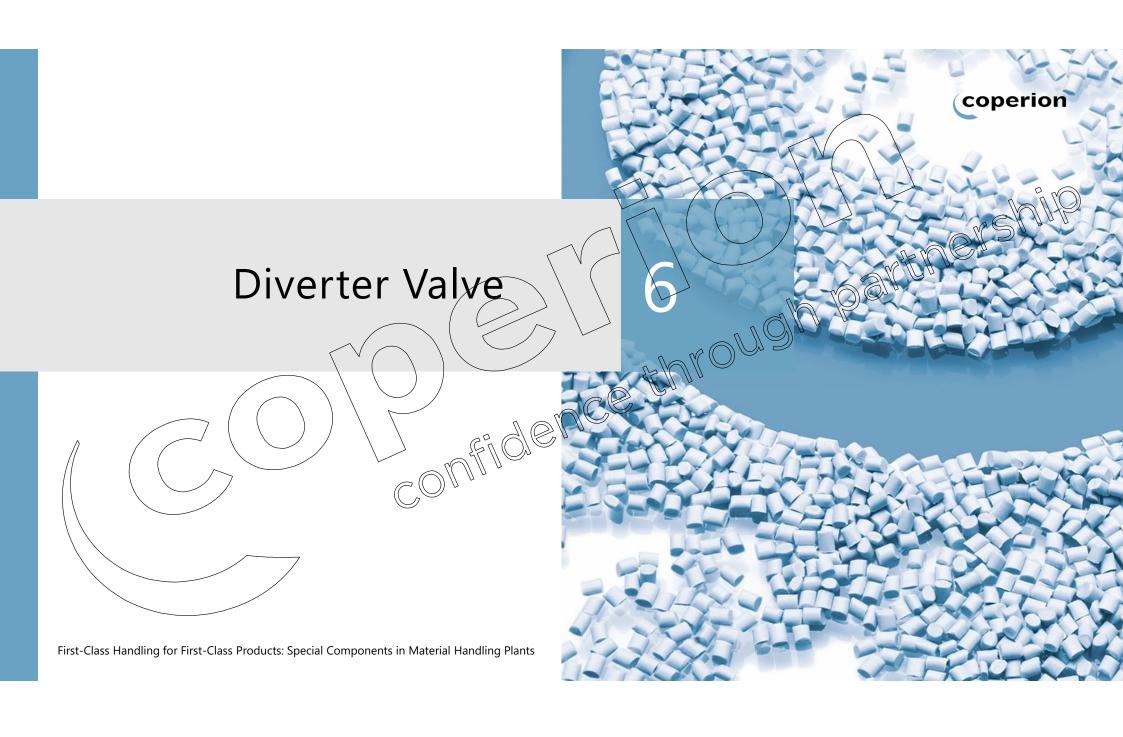
Explosion test at notified body



Coperion flame- and pressure surge proof rotary valve design

→ Ensures highest safety in explosion hazard areas in your plant





Diverter Valve - WZK

How does customer benefit from Coperion diverter valve?



a. Dual-channel rotor – No product

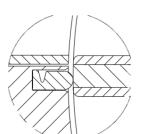
contamination

Rotor is made of two pipes. Therefore, no mixing of material after diverting

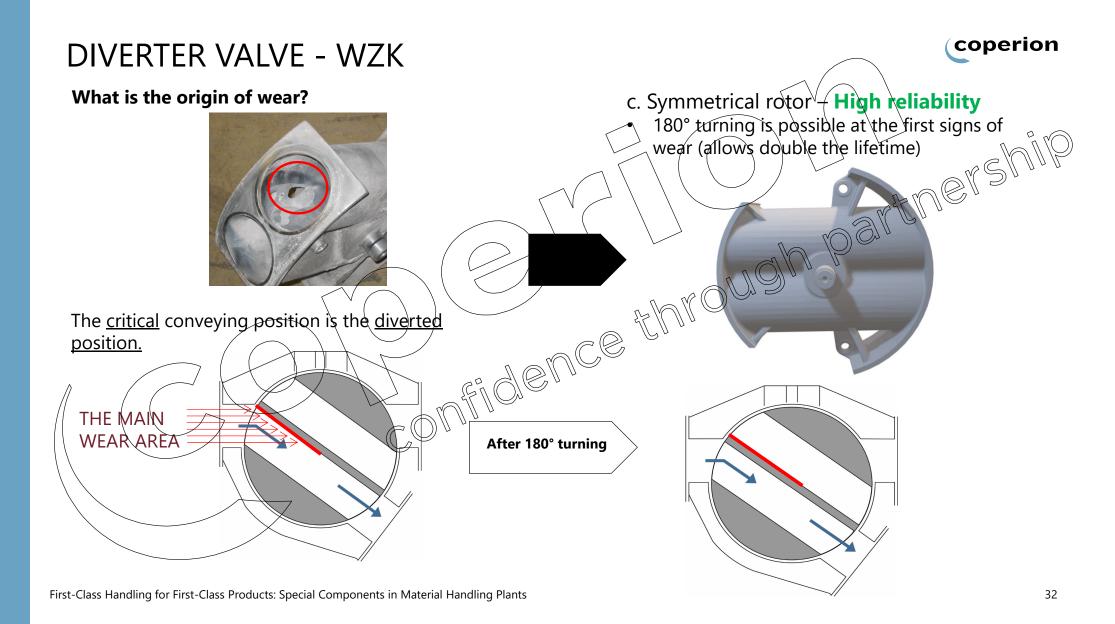
b. Patented rotor sealing: K-Seal –

Sealing effect supported by delivery pressure, therefore no (external) additional pressure necessary. e.g. inflatable seals.









DIVERTER VALVE - WZK

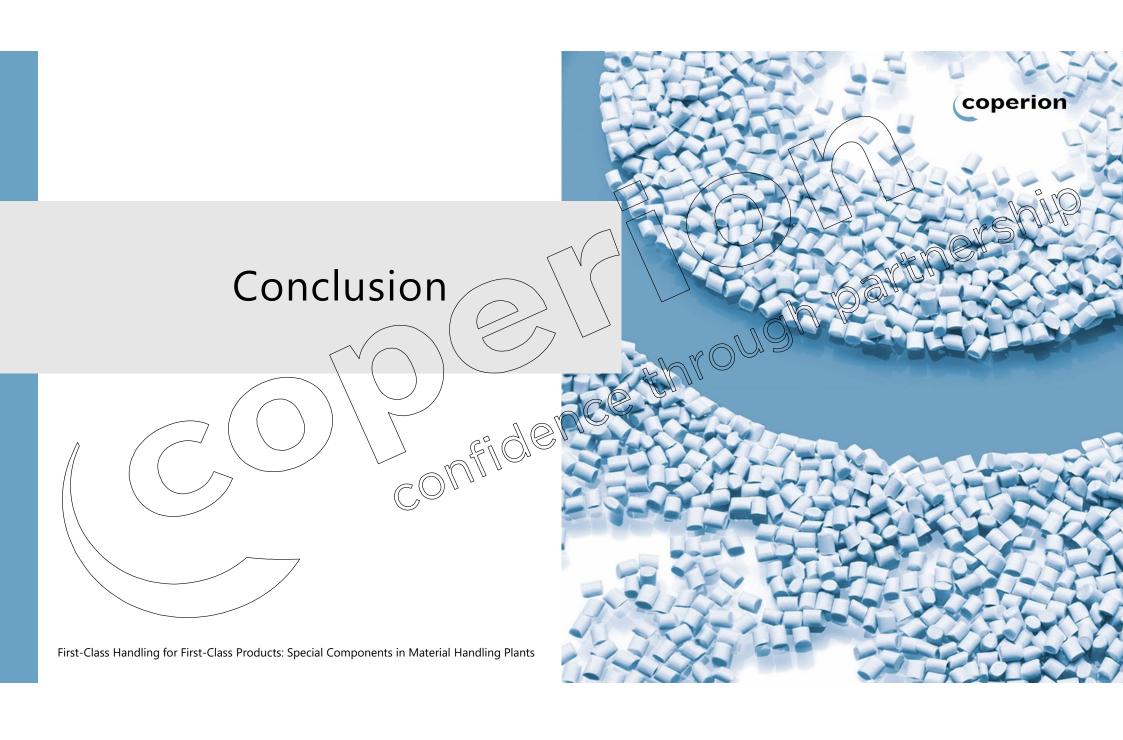
d. Easy Maintenance

- Straight-forward disassembling procedure
- Reduces downtime
- Easily accessible to parts for replacement and maintenance







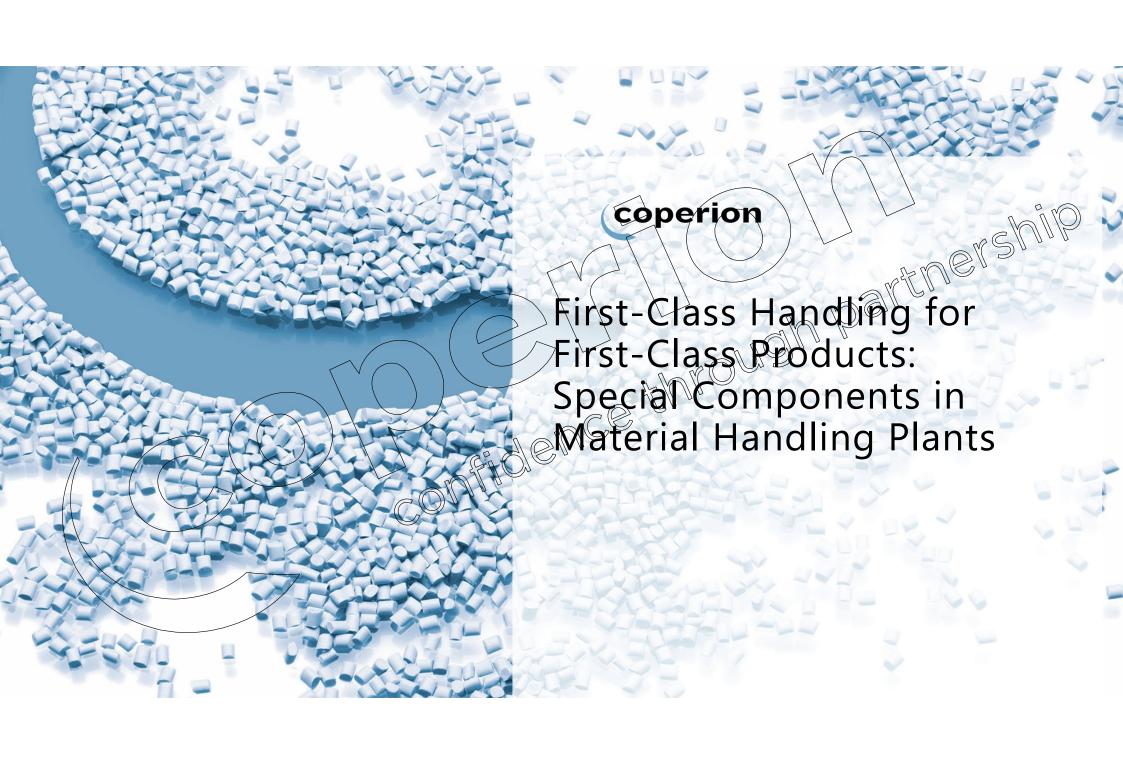


Conclusion

coperion

The partnershi

- ✓ Less product attrition
- Anti-chopping geometry on Rotary valve inlet
- √ To prevent contamination
- Separate material flow channel in diverter valve WZK (dual channel)
- Quick cleaning rotary valve
- ✓ Reduce downtime during maintenance
- Quick access to rotary valve internal for cleaning or maintenance with the aid of extraction device (FXS/ FXL)
- · No extra lifting equipment required
- Easy disassembling and assembling of WZK diverter valve
- ✓ Ensures highest safety in explosion hazard area
- Flameproof and pressure surge proof (up to 10bar) rotary valve
- ATEX conformity





Contact

Jonathan Tan

Regional Sales Manager

12 Woodlands Square, #04-74, Woods Square, 737715 Singapore

Phone +65 6418 8275

E-Mail siewhung.tzn@coperion.com

www.coperion.com

Keiji Baba

Sales Manager

3-7-3, Shin-Yokohama, Kohoku-ku, Yokohama, Kanagawa 222-0033, Japan

Phone +81-45-595-9801

E-Mail kenji.baba@coperion.com

www.coperion.com

