

ZERMEC Pharma AG

Your innovative & solution-oriented partner for high-quality containment solutions.

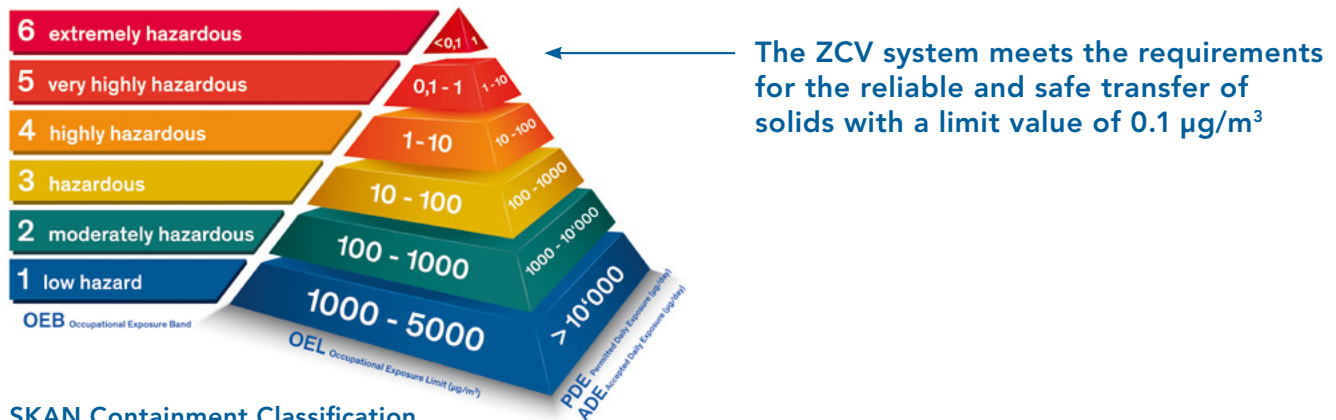


Strengths of the ZERMEC Group

- **Significantly shorter delivery times for containment valves/spare parts**
- Fast and competent project management
- Own test room with test equipment, also for renting or borrowing
- Advice and support in planning / realization of containment projects
- With our newly built warehouse in Germany, Express offers deliveries for spare and wear parts within the EU
- With a highly modern machine park, we manufacture over 90% of the individual parts ourselves
- The individual parts are in stock and guarantee rapid availability
- 25 years of experience in the development and manufacture of containment valves

Area of application of the ZERMEC High Containment valves ZCV

Compliance with OEB 5 without additional dust extraction



SKAN Containment Classification

Overview and function of the ZCV system

- Sizes in DN 65 (DN 50), DN 100, DN 150, DN 200 and DN 250mm
- Manual and pneumatic actuation or combined
- Parts in contact with the product in 1.4404 / 316L or Hastelloy HC22/276
- Seals in EPDM or FFKM (Kalrez)
- Operating temperature from +18°C to + (60°C) 80°C
- Low weight of the passive valve Multi use plastic
- Easy disassembly for sterilization or cleaning
- Automation solutions
- Cleaning and assembly aids
- Detailed documentation
- External parts in aluminum or stainless steel

Special execution

- Special versions for operating temperatures from -5°C to 135°C
- Design according to ATEX type examination up to zone 0/20 inside and 1/21 outside
- Pressure-resistant versions up to +6 bar operating pressure, depending on the nominal diameter
- Vacuum-resistant design up to 95% Vacuum
- Explosion pressure shock resistant and flameproof up to 10 bar for gases of Ex group II

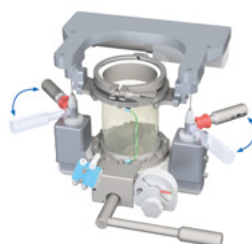
Special solutions

Multi Use Passive valve plastic



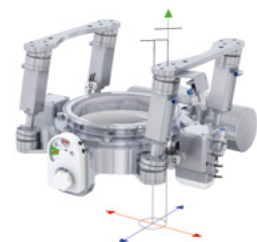
- DN 100 mm
- low weight
- no additional closing of the bag

Active valve with weighing relief



- DN 100 – DN 200 mm
- high weighing accuracy

Flexible deflection



- DN 100 – DN 250 mm
- flexible elements
- Tolerance compensation in 3 axes up to +/- 35 mm

Examples of the ZERMEC Containment-Valve-Systems

1. Passive valves

with standard valve disc



- DN 65 mm (DN 50) – DN 250 mm

with cleaning valve disc



- DN 100 – DN 250 mm
- Valve disc to be cleaned is cleaned on both sides

with compensator



- DN 100 – DN 250 mm
- flexible element in Silicone
- Tolerance compensation in 2 axes

2. Active valves manually operated

Standard



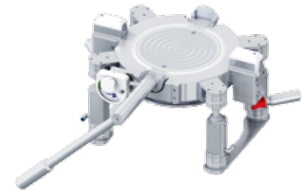
- DN 65 mm (DN 50) – DN 250 mm
- easy handling, fail-safe
- no control necessary
- easy retrofitting of sensors

with stroke manually operated



- DN 100 – DN 200 mm
- manually operated stroke 65 mm
- weight compensation
- Tolerance compensation in 3 axes

with flexible compensator



- DN 100 – DN 250 mm
- with spring deflection 20 mm, Option air damping
- Tolerance compensation in 3 axes

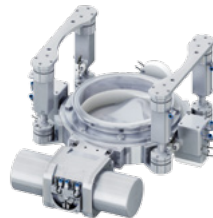
3. Active valves pneumatically operated

Standard



- DN 65 mm (DN 50) – DN 250 mm
- for automated applications
- self-developed actuators self-locking in case of pressure drop

with flexible compensator



- DN 100 – DN 250 mm
- with spring deflection 20 mm, Option air damping
- Tolerance compensation in 3 axes

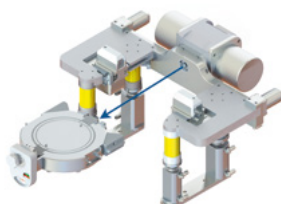
with stroke pneumatically operated



- DN 100 – DN 250 mm
- stroke 65, 80, 130 and 165 mm
- Tolerance compensation in 3 axes

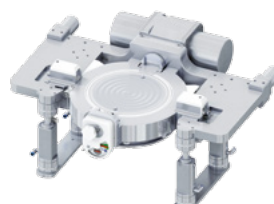
4. Active valves pneumatically operated with mounting frame and quick-change function

Quick-change function



- DN 100 – DN 250 mm
- quick and easy changing of the active valve insert
- Sensors etc. remain on the frame

with flexible compensator



- DN 100 – DN 250 mm
- with spring deflection 20 mm, Option air damping
- Tolerance compensation in 3 axes

with stroke pneumatically operated



- DN 100 – DN 250 mm
- stroke 65, 80, 130 and 165 mm
- Tolerance compensation in 3 axes

Accessories

- WIP Hood for active and passive valves
- Cleaning aids for bins
- Protective cover
- Pressure cover for design according to DGRL
- Assembly aids for manual cleaning, storage and transportation
- For valve disc
- For changing seals
- For product compensator foils

Service and qualification

- On-site feasibility study and engineering
- Operator and product training
- Installation
- Maintenance contracts
- Extensive after-sales service
- FAT at the manufacturer
- IQ / OQ / SAT protocols
- IQ / OQ / SAT execution on site

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