

## Rotary Valves | Sanitary Design

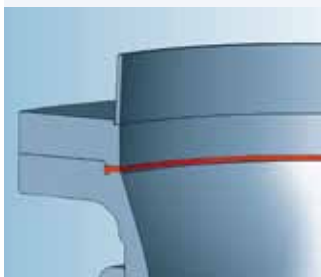
### ROTARY VALVE EXECUTIONS AND ACCESSORIES

- \_ With smooth shapes and surfaces
- \_ For highest requirements regarding hygiene and cleanability



#### SANITARY VERSION (HYGIENIC EXECUTION)

- \_ Designed according to EHEDG guidelines
- \_ Material stainless steel
- \_ Product wetted surfaces polished ( $R_a = 0.8 \mu\text{m}$ )
- \_ Rotor with rounded pockets, chamfered blades and without stiffening bolts
- \_ Gas purged shaft seals, FDA-conform



#### FLUSH END FLANGE GASKETS

- \_ Flange design similar to DIN 11864
- \_ Flush to product area
- \_ FDA-conform
- \_ Prevents product deposit and entry of fluids into sealing gap
- \_ Supplied with weld-on counter flange
- \_ Designed according to EHEDG guidelines



#### OPERATION WITHOUT LEAKAGE GAS VENTING

- \_ Installation of ZXD or ZRD Rotary Valve directly under silo without leakage gas venting
- \_ Ideal for fluidizable products
- \_ Easy planning, low height, low cost of investment
- \_ Sanitary application - no product contamination caused by product remaining in leakage gas pipe

EHEDG or USDA certified Rotary valves



**EHEDG EL CLASS 1**

**CERTIFIED:**

ZRD-CIP

ZFD-CIP

- \_ Discharging and metering rotary valve (ZRD-CIP) and blowthrough valve (ZFD-CIP) designed and certified for CIP\* applications
- \_ Capable to be integrated in fully automatic cleaning (CIP\*), no disassembling of rotary valve required
- \_ Materials resistant against cleaning agents
- \_ Flush end sealings at the in- and outlet of the valve and between side covers and housing (patented gap free design, FDA conform)



**EHEDG ED**

**CERTIFIED:**

ZRD

ZXD

ZVD

- \_ Discharging and metering rotary valve (ZRD, ZVD) and blowthrough valve (ZXD) certified for dry processes and dry cleaning practices
- \_ Easy disassembling and cleaning of parts
- \_ Easy access to inner areas
- \_ Open end rotors in hygienic execution
- \_ Gas purged shaft seals, FDA-conform



**USDA APPROVED**

**AND CERTIFIED:**

ZRD-USDA

ZXD-USDA

- \_ Rotary valve in quick disassembling execution with extractable sealing cassette
- \_ Sealing rings can be taken out of sealing cassette for easy inspection and cleaning



\* CIP = Cleaning in Place