

The principle:
Divided valve disks for maximum security



Double seat valve standard version



Double seat changeover valve



Piggable double seat valve



Double seat tank outlet valve

- ▶ **Sealing material *k-flex***
 Universal application for different media. Stability analogue PTFE.
- ▶ **The hygienic safety**
 Product penetration to the rear side of the sealing is absolutely impossible.
- ▶ **EHEDG-certified**
 High hygienic safety due to excellent cleanability.
- ▶ **The mounting process**
 Simple and quick maintenance, incorrect assembly is excluded.
- ▶ **Service life**
 Up to 2.5 fold longer service life.
- ▶ **Your advantages**
 Cost savings and higher production reliability.
- ▶ **For the future**
 Flexible adaptation to the production processes

TECHNICAL DATA

Installation sizes: DN 25 – 150, 1" – 4"

Materials

Product wetted: 1.4404 / AISI 316L

Non-product wetted: 1.4301 / AISI 304

Sealings:

EPDM (SIP 140°C, 30 min.) FDA conform

HNBR (SIP 110°C, 30 min.) FDA conform

k-flex (150°C) FDA conform

Surfaces product wetted:

Ra ≤ 0,8 µm e-polished

Operating pressure:

DN 25 – DN 100 10 bar

DN 125 / 150 6 bar

Vacuum:

1,5 x 10⁻⁶ (mbar x l/s)

Pressure shock resistance:

up to 50 bar
 (closed valve position)

Control air:

4,5 – 8 bar

All advantages at a glance

Modular control head

Depending on the version, including:
 Position indicator and display
 Valve control
 Diagnostic system
 Connection for 2 external entries

Actuator

with 5 years operation warranty

Simple assembly

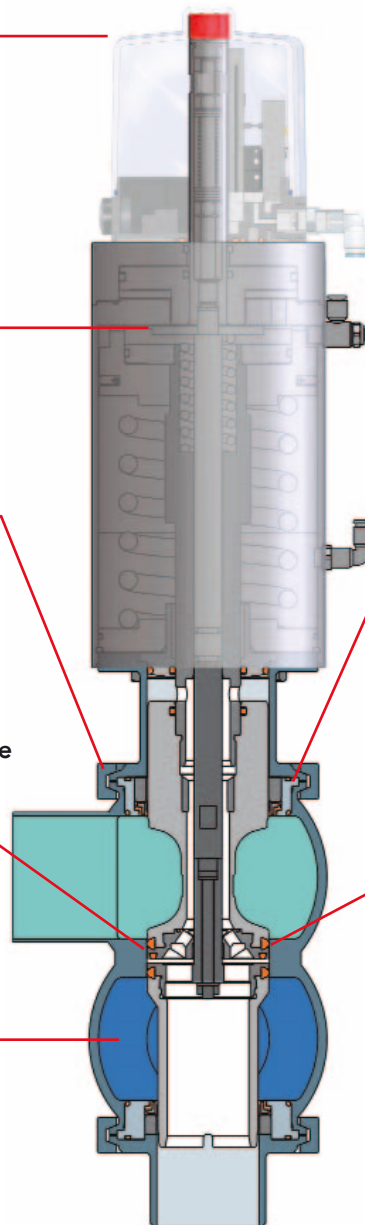
Clamp lock for complete removal of valve insert and actuator

Uniform valve disc sealing principle

results in continuous locking function and protection from pressure shocks. Leakage free opening and closing of the valve avoids product losses and hygienic problems in the leakage chamber.

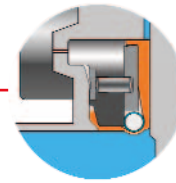
Spherical shaped housing

Housing design without cleaning shadows for safe cleaning and product gentle media control.

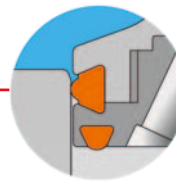


Shaft sealings with metal core for highest dynamic and static sealing results by defined pre-compression.

Positioning of all sealing elements with metallic limit stop - without cavity.

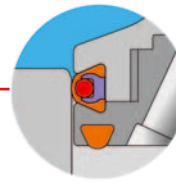


k-flex shaft sealings with metallic support for universal applications



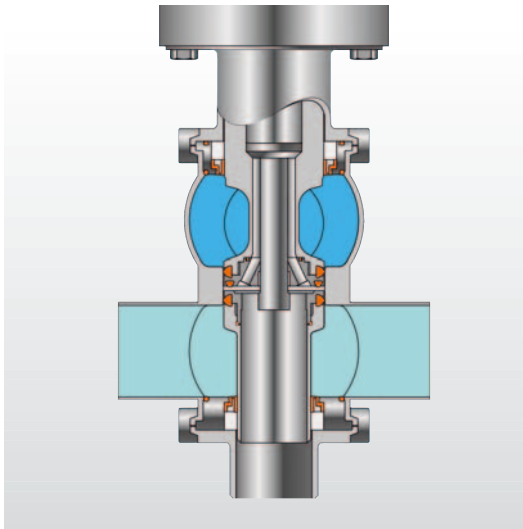
Divided valve disks for the reception of the tension and pressure resistant valve disk sealing. Penetration to the rear side of the valve disk sealing is thus absolutely avoided.

Valve disk sealing with FEM optimised sealing form provides for continuously safe and dynamic closing characteristics.



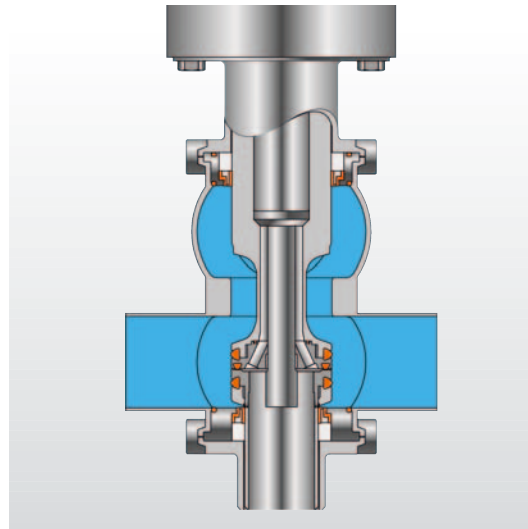
Chemically highly resistant *k-flex* valve disk sealing provide for application in universal media with long service life.

Detailed functionality of Double seat valves



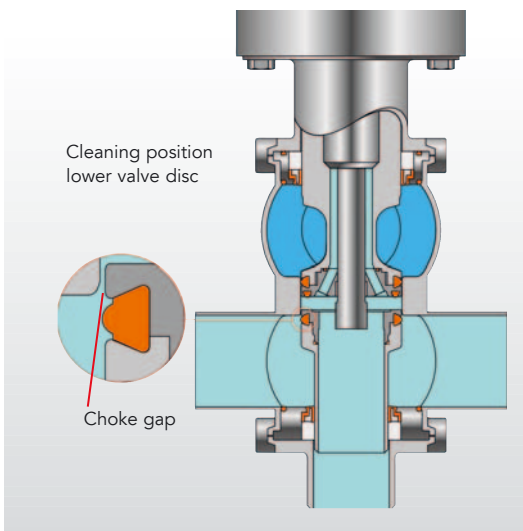
▲ **Valve closed**

- Secure separation of product and cleaning media
- Possible leakages are diverted via the leakage compartment to the exterior without pressure
- Pressure shock resistant locking position



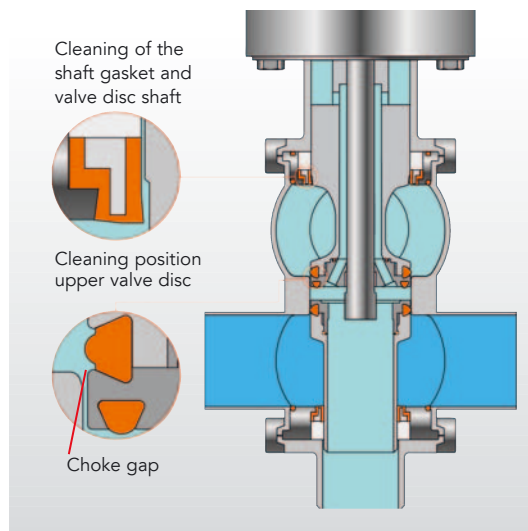
▲ **Valve open**

- Leakage-free opening of the valve
- Leakage outlet closed
- Valve passage designed for large capacity flow



▲ **Pulsing of lower valve disc**

- Lowering of lower valve disc
- Cleaning and sterilization of valve disc sealing, valve seat, leakage space with drainage and protective shell
- Cleaning dosage defined by metallic limited choke gap



▲ **Pulsing of upper valve disc**

- Lifting upper valve disc
- Cleaning and sterilization of shaft sealing, valve disc shaft, lantern, valve disc and gaskets, valve seat, leakage space with drainage and protective shell
- Cleaning fluid volume defined by metallic limited choke gap