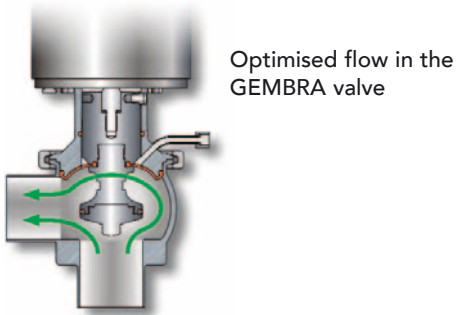


**GEMBRA - the ne plus ultra  
in hygienic safety**

GEMBRA aseptic valves for sterile process control of sensitive products. They were designed for the contamination free separation of sensitive products in automatic operation. With the *k-flex* sine diaphragm, safe process control is guaranteed also during changing process conditions. *K-flex* sealing material can be used with different mediums and provides good cleanability due to antiadhesive characteristics.



**TECHNICAL DATA**

**Installation sizes:** DN 40 – 80  
tube grade according to  
DIN 11850 - series 2  
and DIN 11866 series A

**Materials**

**Product wetted:** 1.4404/AISI 316L  
**Non-product wetted:** 1.4301/AISI 304

**Sealings**

**Product wetted:** *k-flex*  
with FDA-approval

**Surfaces**

**Product wetted:**  $Ra \leq 0,8 \mu m$   
e-polished

**Product temperature:** max. 95°C

**Sterilisation temperature:** max. 140°C, 30 min.

**Product pressure**

**Valve functions:** max. 8 bar

**Diaphragm**

**pressure resistance:** max. 30 bar

**Control air pressure:** 5,5 – 8 bar

**Advantages of GEMBRA Technology:**

- ▶ Contamination free aseptic function  
due to diaphragm
- ▶ Hygienic design with excellent cleanability
- ▶ Durable *k-flex* sealing material
- ▶ Big opening stroke
- ▶ Product-conserving media flow
- ▶ Fast and simple assembly with easily  
accessible parts
- ▶ Simple and cost-efficient maintenance



GEMBRA single seat valve

**Types:** Angle valve  
T-Valve  
Changeover valve

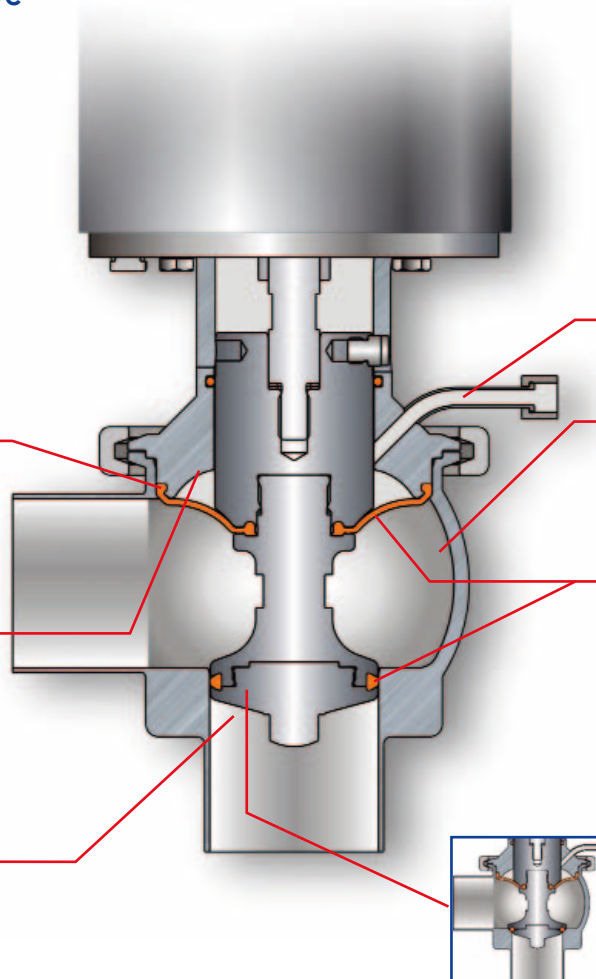


GEMBRA Double seat valve

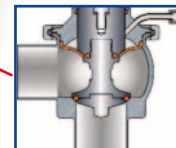
**Types:** Double seat valve with cross housing  
T-Valve  
Loop valve

All advantages at a glance  
**GEMBRA Single seat valve**

- ▶ Contamination free aseptic function due to diaphragm seal
- ▶ The diaphragm support compensates pressure shocks up to approx. 30 bar and operating pressure up to approx. 8 bar
- ▶ Pressure shock resistant up to 50 bar



- ▶ Leakage monitoring
- ▶ High hygienic safety due to dome-free housing
- ▶ Simple and quick seal exchange

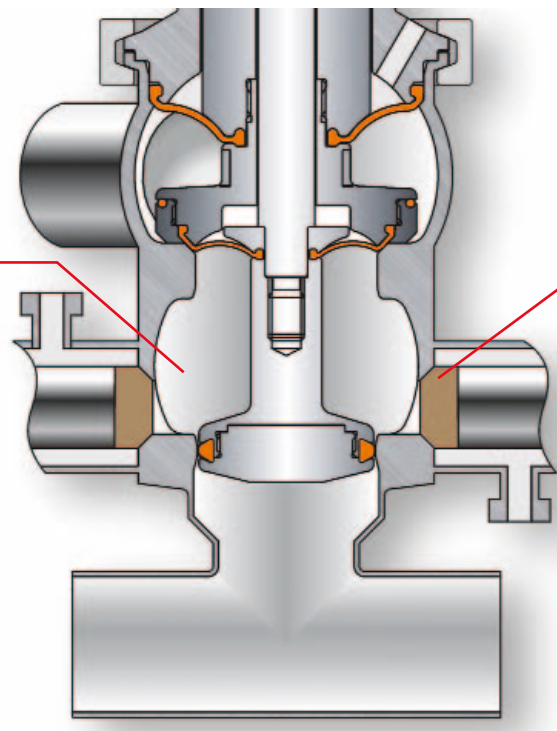


**Alternative:**  
**GEMBRA Single seat valve with axial sealing for extreme conditions**

**GEMBRA Double seat valves**

**Additional advantages of the GEMBRA double seat valves**

- ▶ No contamination but safe separation of adverse media due to steam barrier chamber and leakage room between the two process lines
- ▶ Temperature monitoring with PT 100 available for the steam barrier



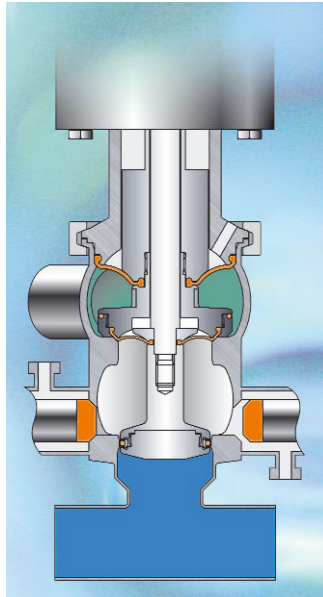
- ▶ Dead space-free location of the CIP/SIP-shutoff valves at the leakage room



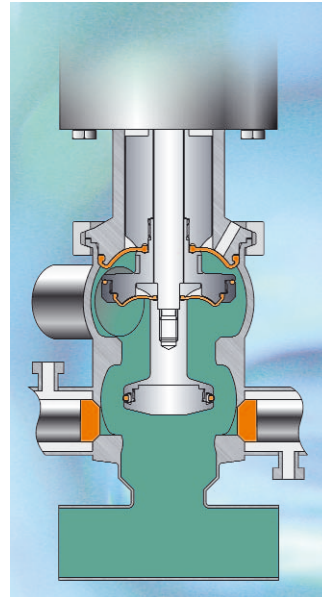
**Alternative:**  
**GEMBRA Double seat valve with PT 100**

Valve functions

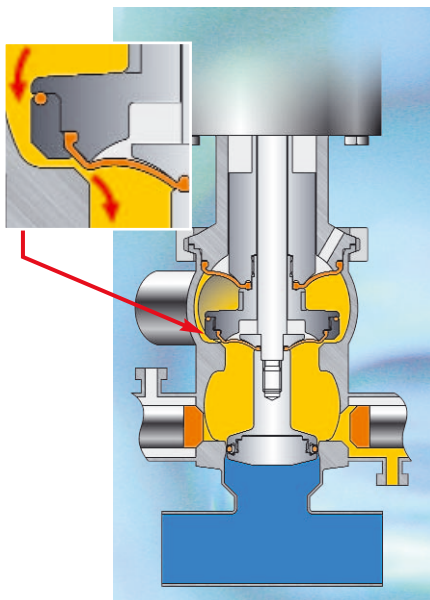
GEMBRA Double seat valves



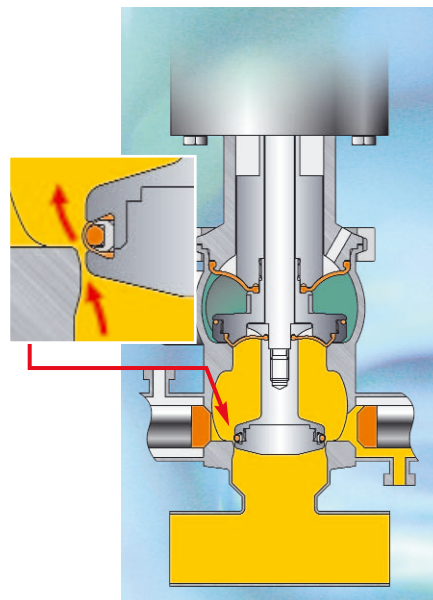
Valve closed  
- Steam barrier active



Valve open  
- Steam barrier inactive



Pulsing top  
upper seat cleaning  
- Drain valve open



Pulsing bottom  
lower seat cleaning  
- Drain valve open