



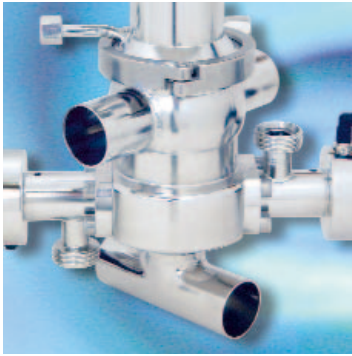
SO EVERYTHING KEEPS FLOWING

Aseptic Valve Programme GEMBRA





Totally Aseptic



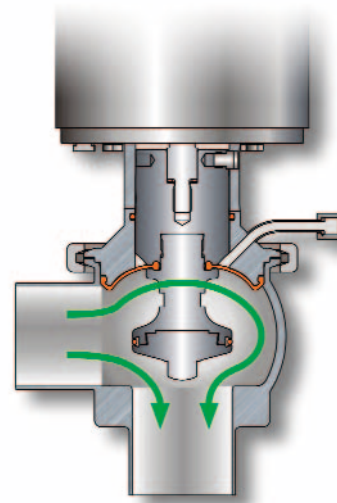
The GEMBRA-aseptic valve series stands out due to its uncompromising hygienic design. It is based on process-safe and stable aseptic diaphragm sealing. The use of an established technology ensures a safe process and an efficient operation. GEMBRA valves are available as single-seat, change-over valves and leakage-proof double-seat valves. GEMBRA aseptic technology has been certified by the EHEDG. This is a maximum of aseptic!

As a new and innovative hybrid technology valve series, GEMBRA valves combine the advantages of the safe and durable diaphragm seal with the geometric benefits of the seat-valve technology with regard to excellent cleanability, dead space free design and idling performance. The diaphragm technique allows an optimal transition of product thanks to its large opening range and tangential incoming flow of the diaphragm. A dome and dead space-free housing and the design of the diaphragm facilitate a product-conserving medium flow. All seals in touch with product are made of *k-flex* sealing material. *K-flex* does not only ensure a long service life, high resistance to aggressive media and temperatures but is also very easy to clean.

GEMBRA – The ultimate product for hygiene safety

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
- ▶ cost-efficient maintenance



Optimised flow in the
GEMBRA valve

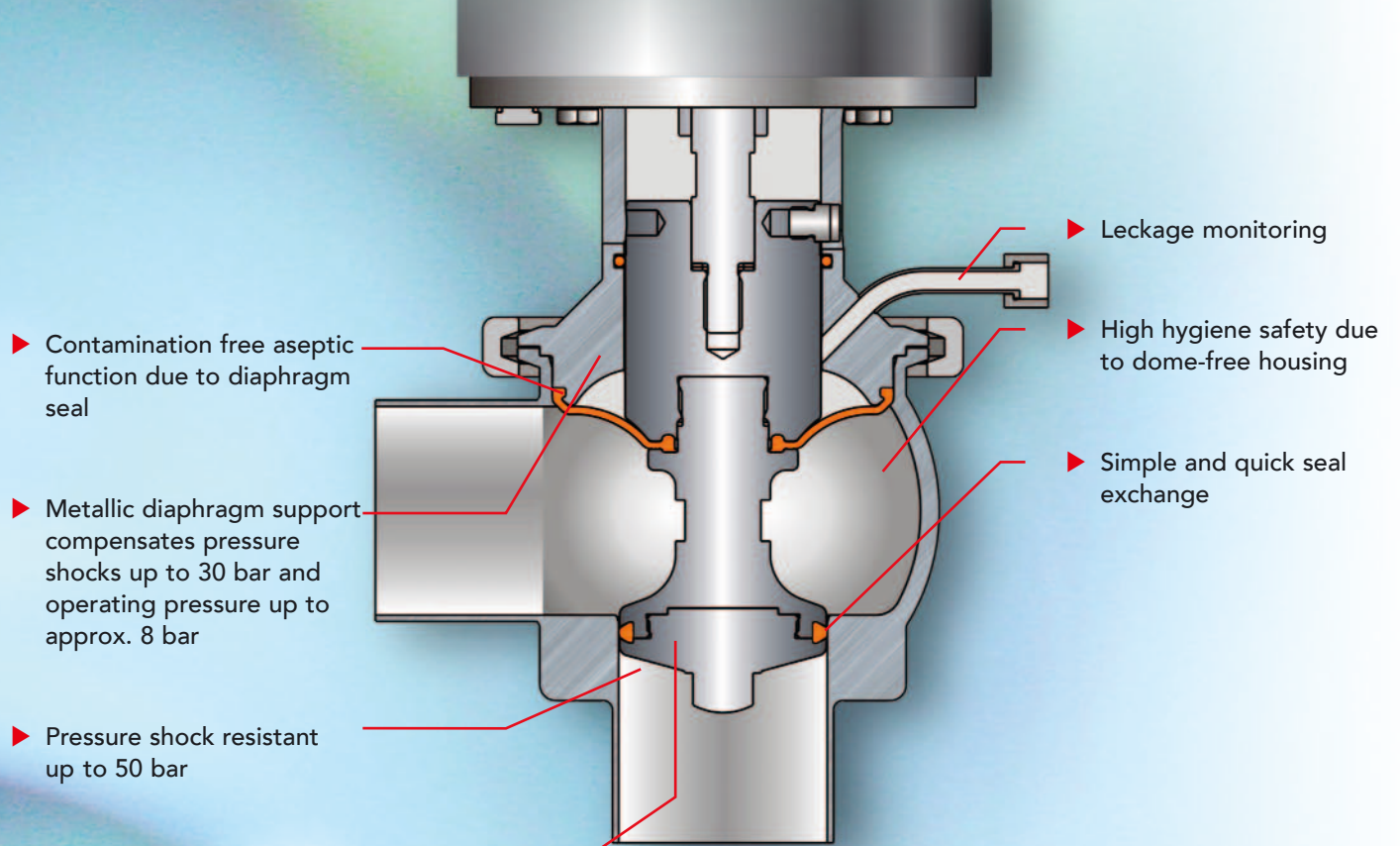
Sinus-diaphragm seals made of the established *k-flex* sealing material stand out thanks to their high level of flexibility even when there are rapid temperature changes. The high strength of the diaphragm throughout the whole temperature range and the low flow resistance ensure high process reliability. The smooth and even contour of the diaphragms and the high surface quality of the stainless steel housing allow a free product flow and optimal cleaning.





GEMBRA
Single seat valve
with radial seal

Secure expulsion of fruit pieces from the seal



▶ Contamination free aseptic function due to diaphragm seal

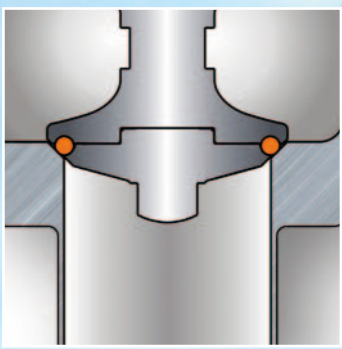
▶ Metallic diaphragm support compensates pressure shocks up to 30 bar and operating pressure up to approx. 8 bar

▶ Pressure shock resistant up to 50 bar

▶ Leakage monitoring

▶ High hygiene safety due to dome-free housing

▶ Simple and quick seal exchange



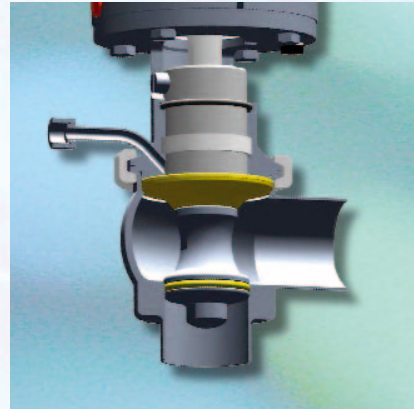
Alternative:
GEMBRA
Single seat valve with
axial sealing

Safe shut off under extreme conditions through *k-flex* seal and metallic stop

**GEMBRA Single seat valves –
the suitable valve for each
application**

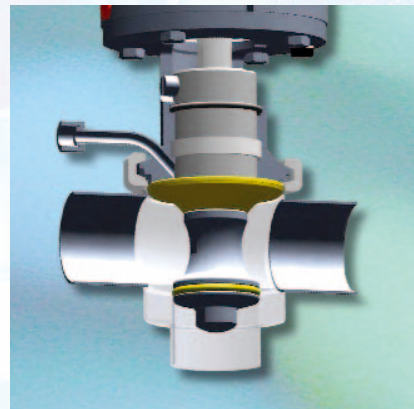
GEMBRA Single seat angle valves:

- ▶ Contamination-free aseptic shut off



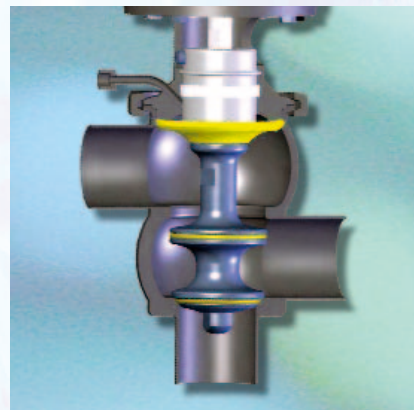
GEMBRA Single seat T-valves:

- ▶ Contamination-free aseptic shut off
and distribution



**GEMBRA Single seat change-over
valve:**

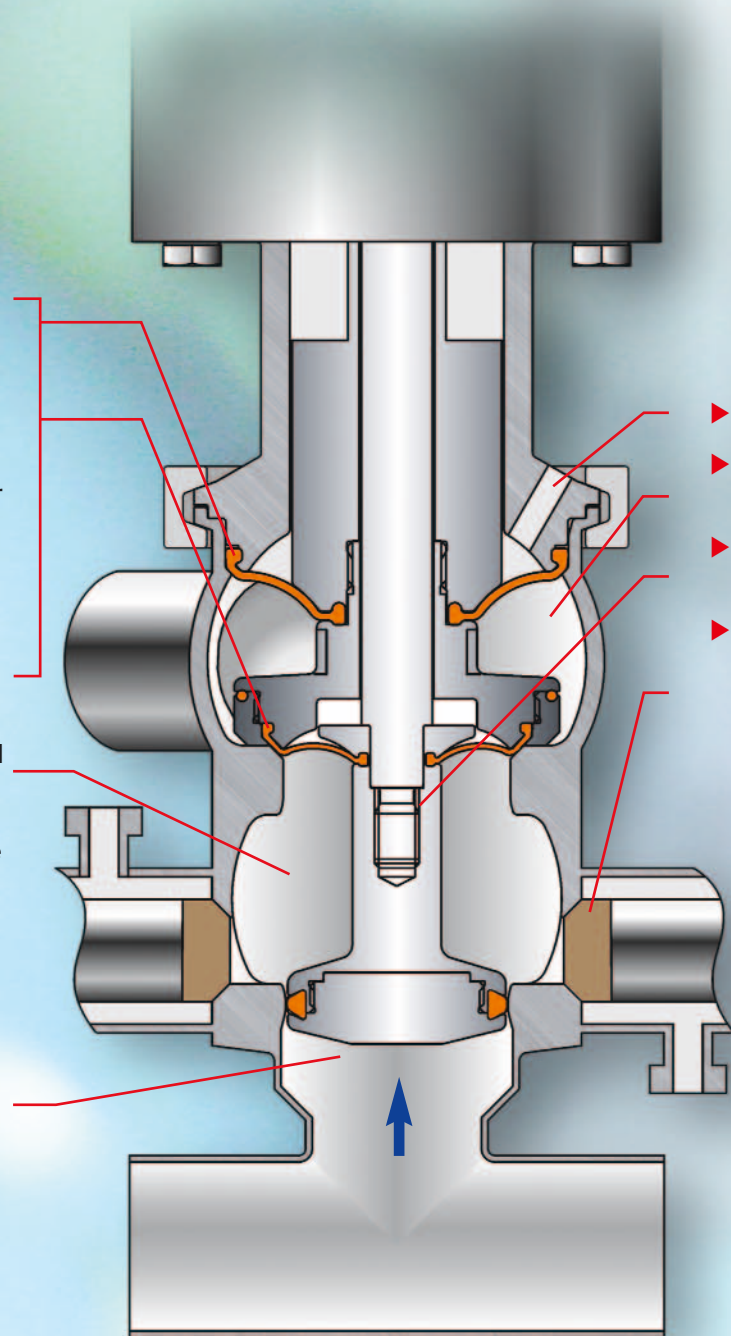
- ▶ Contamination-free aseptic shut off,
switching and distribution



GEMBRA - the strongest argument for aseptic process reliability

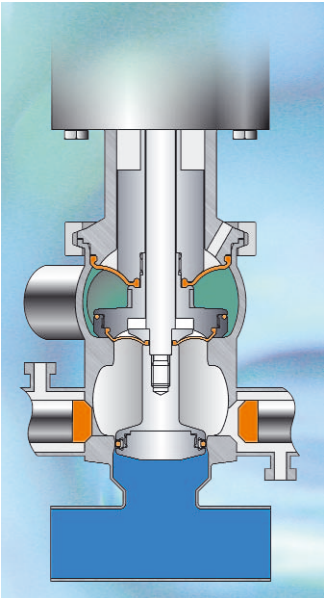
- ▶ Contamination free aseptic function due to diaphragm seal
- ▶ Metallic diaphragm support compensates pressure shocks up to approx. 30 bar and operating pressure up to approx. 8 bar
- ▶ Easy to clean *k-flex* sealing material offers a medium independent universal application
- ▶ Contamination resistant and blending resistant separation of adverse media due to safety room and leakage room between the two process lines
- ▶ Temperature monitoring with PT 100 available for the steam barrier
- ▶ Pressure shock resistant up to 50 bar

- ▶ Leakage monitoring
- ▶ High hygiene safety due to dome-free housing
- ▶ Simple and quick seal exchange
- ▶ Dead space-free location of the CIP/SIP-shutoff valves at the leakage room

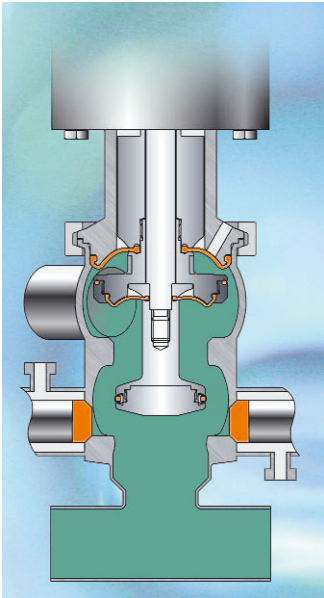


GEMBRA Double seat valve with PT 100

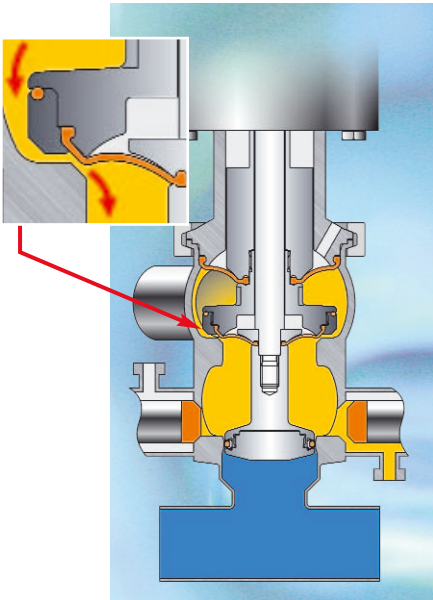
We set standards – you benefit



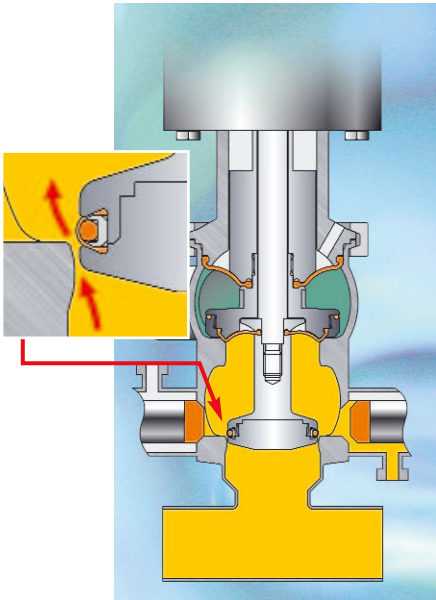
Valve closed
- Steam barrier active



Valve open
- Steam barrier inactive

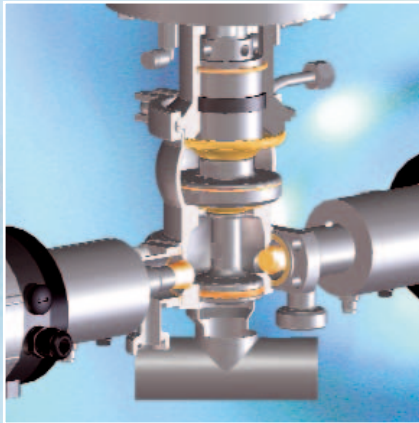


Cycle top
upper seat cleaning
- Drain valve open



Cycle bottom
lower seat cleaning
- Drain valve open





Technical data

Installation sizes: DN 40 – 100
 tube grade according to
 DIN 11850 - series 2
 and DIN 11866
 series A

Materials

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

Sealings

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

Surfaces

Product contact: Radius $\leq 0,8 \mu\text{m}$
 E-polished

Product temperature: max. 95°C

Sterilisation temperature: max. 140°C cyclical

Product pressure

Valve functions: max. 8 bar

Membrane

pressure resistance: max. 30 bar

Control air: 5,5 – 8 bar