

# GEA ASEPTOMAG<sup>®</sup> LEAKAGE VALVES LV/LVBS

One more reason to smile.



# GET THE BEST OF BOTH WORLDS.

Modern leakage valves for economical mixproof processing. Hermetically sealed product chambers for a higher hygienic standard.

Leakage valves are a standard solution at pipe crossings to direct the flow of two incompatible media, such as product and CIP, without mixing.

Our LV/LVBS leakage valves are uniquely equipped with stainless steel bellows to shield the product area from outside contamination – your way to advanced product quality and safer processes!



## At a glance

- Hermetic sealing by stainless steel bellows
- Uncompromising detection possibilities
- Easy and safe maintenance
- Ideal fit for UltraClean mixproof applications

# MORE SHELF LIFE, MADE SIMPLE.

A simplified, cost-efficient mixproof process with increased product safety is ideal for all applications to enhance the product quality and shelf life with less use of preservatives.

GEA leakage valves LV and the tank-bottom variants LVBS are ideal to fulfill higher hygienic requirements in the food, beverages and pharma industries.

Use these valves to advance the purity and quality of your products and achieve longer shelf life in a better and more sustainable way.



## **Dairy industry**

ESL milk, desserts, lactose



## **Beverage industry**

Soft drinks, fruit-based beverages, beverages with pulp



## **Pharma industry**

WFI handling, e.g. CIP installations, injectables



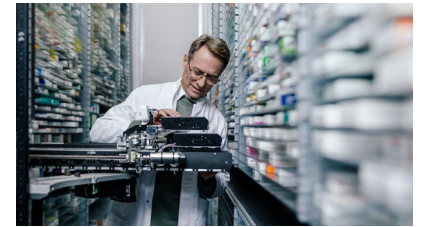
## **Food industry**

Sauces and delicacies



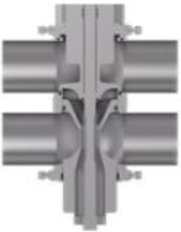



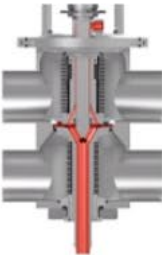




## **Brewery industry**

Beer and mixed beer beverages (e.g. pure yeast cultivation)

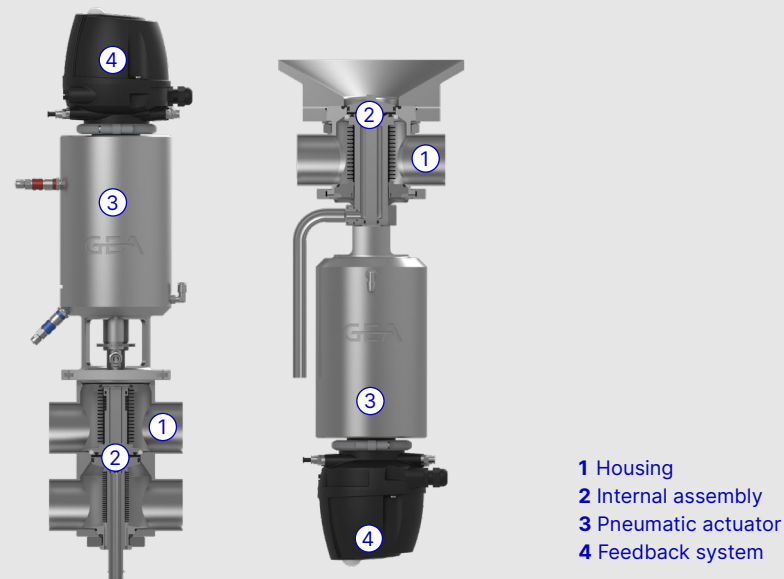


# FINDING THE RIGHT MIXPROOF VALVE

From Hygienic to Aseptic

D, B, R, MX	MX with BCD	Sterile locks	LV	LV DA	D/DV	DK	DDK	AXV
								
Hermetic sealing								
Without	Without	Medium	Bellows	Bellows	Diaphragm	Bellows	Bellows	Bellows
Intermediate cavity								
Open	Open	Open	Open	Open	Shielded	Shielded	Shielded	Shielded
<div></div>								
Hygienic			UltraClean			Aseptic		

# LEAKAGE VALVE DESIGN



## Housing

Housings are available with 2–4 connection ports. In addition to the regular bottom-seat version with pipe connections, the options with welded (BSS) or screwed flange (BSO) connection are also available. The valves are produced with butt-weld connections by default. Mixed port connection sizes as well as various pipe connection fittings are available upon request.

## Internal assembly

Standard models are equipped with a hard TEFASEP® seal for the axial valve seat and an EPDM seal for the radial valve seat. An o-ring made of PTFE is also available for the axial valve seat seal.

## Actuator

The pneumatic actuator for the leakage valves LV and LVBS is made of stainless steel and designed to be spring-closing/air-opening (NC). In addition to the full stroke, the standard design allows both valve seats to be lifted independently (EA). Optionally, the valve can be configured with an actuator where only the radial valve seat A can be lifted independently (AZ).

## Clamp

Due to its solid construction, the GEA Aseptomag® clamp enables a pressure-stable and safe connection of the main components. The special design with three segments allows a service-friendly handling of the component, even under tight space conditions.

## Feedback system

UltraClean leakage valves can be either equipped with open feedback units or T.VIS® feedback systems by default. Feedback units from third party suppliers can be mounted via special adaptors.

## Tank bottom variant

The leakage valve in bottom-seat execution is primarily used to shut off pipelines at tank applications.

# SAFE SWITCHING.

## Operating mode

From the safe separation of foreign media to impeccable CIP cleaning and steam flushing: All valve operations are implemented via the pneumatically controlled switching sequences – including individual seat lifting for the cleaning of all product-wetted surfaces.

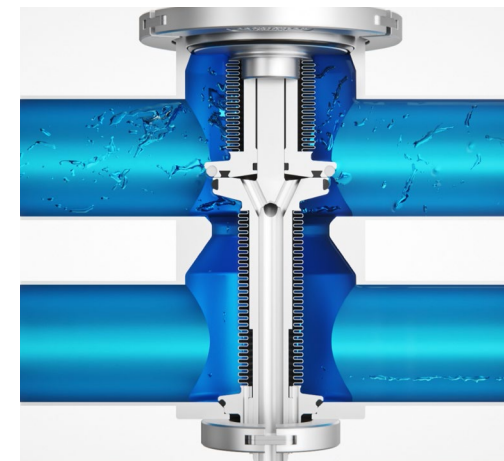
### 1. Basic position / fail-safe position

Safe media separation.



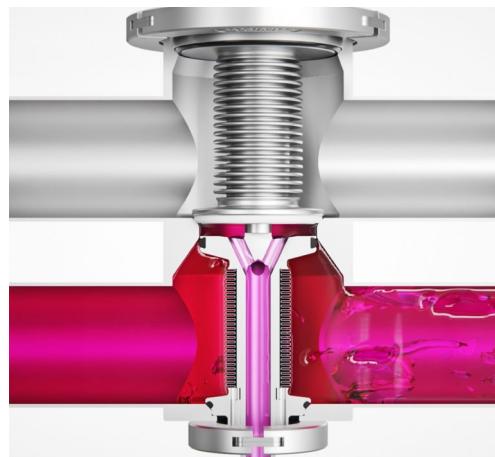
### 2. Transfer

Product transfer through the valve.



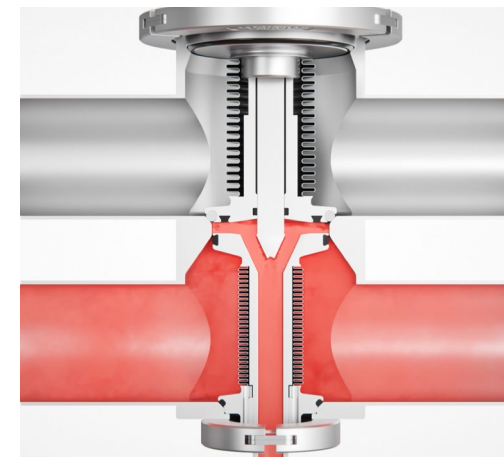
### 3. CIP cleaning both valve seats

Rinse of cleaning liquid via leakage chamber.  
Pulsated lifting of valve seat.



### 4. SIP steam flush both valve seats

Rinse of steam via leakage chamber.  
Pulsated lifting of valve seat.



# EVERYTHING FROM A SINGLE SOURCE.

GEA valves are key components in  
fixed piped processing plants.

Our extensive portfolio includes the globally renowned VARIVENT®, D-tec®, VESTA® and Aseptomag® valve lines, offering all process-relevant options and easy to combine with each other.

Thanks to their modular structure, GEA valves can be adapted to individual customer requests or special process requirements (higher closing pressures, special materials, special design, etc.).

In addition to single valve components, we offer standardized as well as custom system solutions, including valve manifolds with a special focus on product and process safety as well as ease of maintenance.

Come to visit us:



**GEA Aseptomag AG**  
Industrie Neuhof 28  
3422 Kirchberg, Schweiz

Tel +41 34 4262929  
[gea.com/schweiz](http://gea.com/schweiz)