

A close-up, high-speed photograph of water splashing, creating a dynamic and energetic scene. The water is captured in mid-air, with droplets and bubbles visible, set against a dark blue background. The overall image has a strong blue color scheme.

Save operating costs and the environment with LEFF®

Used in beverage and non-aseptic dairy processes

Reduce operating costs and environmental waste

With the electronic LEFF® function for VARIVENT® Mixproof Valves, you will use up to 90% less CIP media, reduce wastewater production and decrease overall operating expenses.

VARIVENT® mixproof valves are used in beverage and non-aseptic dairy processes. Staggered CIP cleaning of the individual housings means these valves can be used around the clock, without ever having to entirely shut down production.

Cost savings according to the LEFF® principle

With the LEFF® function integrated into the control top T.VIS® A-15, operators can add to these already significant cost savings. That is because accurate control of the valve stroke using the LEFF® function during seat CIP cleaning reduces the amount of CIP media consumed.

No additional plant engineering and programming

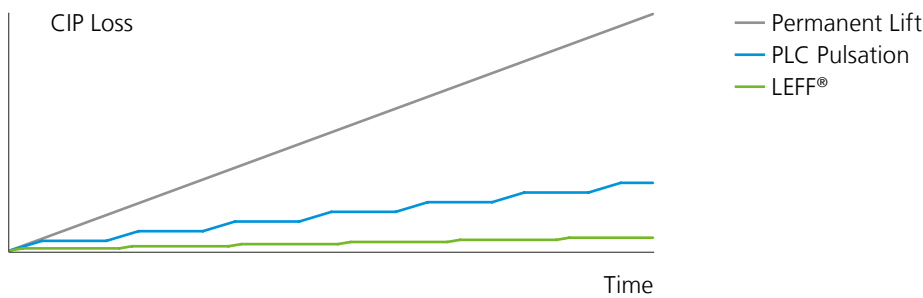
The electronic function monitors and controls the lift of the valve seat via the valve's path measurement system, independent of PLC scan times and line pressures. Since the electronic processing takes place only in the T.VIS® A-15 control top and not via the PLC, the signal speed is much faster.

How you benefit:

- Significant cost reduction
- Less consumption of CIP media, less wastewater
- No complex PLC programming required
- No additional hardware required
- Independent of PLC scan times and line pressures



VARIVENT® 24/7 PMO 2.0 Valve



LEFF® – Optimal cleaning of the valve seats and cavity

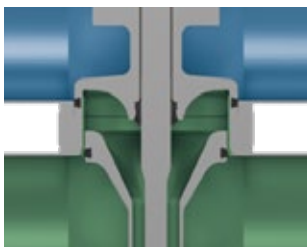
Cleaning the cavity of the VARIVENT® Mixproof Valve takes place while product is present in the opposite valve housing. There is never a worry of intermixing.

Accurate control of valve seat lift position is made possible by LEFF®, so only a narrow opening between the valve disk and seat is created during cleaning. This narrow opening causes the CIP liquid velocity to increase, producing an optimum cleaning burst in the seat area and vent cavity. The result is superior cleaning using a minimal amount of CIP media.

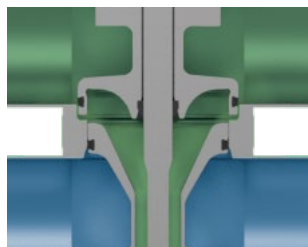
LEFF® – ready for immediate use

The LEFF® function can be easily enabled with the control top T.VIS® A-15. Activation of the function for the upper seat requires an external proximity switch.

For further information on additional benefits of the VARIVENT® Valve series, the T.VIS® A-15 control top as well as the LEFF® function, visit www.gea.com.



If cleaning medium is located in the lower pipeline, down-lifting of the lower disc is possible to clean gasket surface and cavity.



If cleaning medium is located in the upper pipeline, up-lifting of the upper disc is possible to clean gasket surface and cavity.

2000

Introducing LEFF® module
for sensor technology

2003

LEFF® function integrated in GEA's
first automatic control top series

2013

LEFF® function becomes
self-monitoring

2015

Optimized LEFF® function further
reduces cleaning media consumption of
bigger valve sizes

2017

GEA's LEFF® function receives approval
for usage in US dairy market

We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA is one of the largest technology suppliers for food processing and a wide range of other industries. The global group specializes in machinery, plants, as well as process technology and components. GEA provides sustainable solutions for sophisticated production processes in diverse end-user markets and offers a comprehensive service portfolio.

The company is listed on the German MDAX (G1A, WKN 660 200), the STOXX® Europe 600 Index and selected MSCI Global Sustainability Indexes.

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