

NEW

GEA

D-tec Stem Diaphragm Valve

A new GEA innovation for process and product safety



D-tec Stem Diaphragm Valve

GEA Flow Components presents the new D-tec valve, developed especially for the growing segment of *ultraclean* applications in the food, beverage and dairy industries by two specialists for hygienic and aseptic valves, GEA Tuchenhagen and GEA Aseptomag.

Everyone in the food-related industries is aware of the high standards in Hygienic Design and the steadily growing requirements with regards to products and processes. With the stem diaphragm valves in the new D-tec series, GEA provides the answer that enables product and process safety, setting new benchmarks in terms of flowrate, flexibility and compatibility.

The integration of the diaphragm in the VARIVENT® modular design system is the main reason for the new performance benefits. Innovative design ideas minimize the stress and wear on valve materials. This means optimized total costs of ownership and a longer service life of the valve where it counts – in the process.

Product benefits:

The D-tec stem diaphragm valve achieves a higher standard of hygiene thanks to its hermetically sealing diaphragm. This leads to a higher product quality in sensitive, *ultraclean* applications in food-related industries, and it also permits the longer shelf lives often demanded in these markets.

With new, innovative features the D-tec valve raises the standards in its segment, resulting in a number of patent applications.

To be highlighted are the sophisticated connection of the membrane and stainless steel housing in the valve's design, and the

minimized mechanical stress on the diaphragm during the switching process.

The D-tec diaphragm made from pure PTFE combines proven material benefits in terms of temperature resistance and easy cleaning with a prolonged service life.

A leakage detection makes it possible to check the diaphragm's integrity with great reliability.

The secured thread outside of the product-wetted part of the valve additionally contributes to a safe operation.



D-tec at a glance:

- Hermetic sealing
- Ideal for *ultraclean* processes
- High Cv-value
- Integrated decoupling of spring torsion
- Proven VARIVENT® philosophy
- Low maintenance costs

The VARIVENT® philosophy:

The new diaphragm extends the modular VARIVENT® valve design to provide a great option for producers in *ultraclean* processes. As a refurbishing kit, the diaphragm is available for easy retrofitting of existing systems.

The advantages of the proven VARIVENT® sealing concept are fully valid for the D-tec stem diaphragm valve. Users benefit from the well-known long sealing service lives and from the optimized maintenance concept to reduce operating costs.

GEA Mechanical Equipment

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