



M&S Membrane Safety Valves are component-tested by the TÜV fittings for securing hygienic, pressure-bearing systems such as pressure vessels and pipelines against inadmissible overpressure. They meet the requirements of the Pressure Equipment Directive (DGRL 2014/68/EU).

The patented membrane sealing system, in combination with a flow-optimized ball housing meets all criteria of hygienic design. It ensures the hermetic separation between product area and spring chamber und therefore provides maximum safety, even in use cases with the highest hygienic requirements up to aseptic processes.

This innovative valve design combines the highest product safety, with a significant increase of blow-off performance, while simultaneously reducing the construction size.

The inlet and outlet area is designed in a modular fashion which allows for flexible connection of various connection types. Pneumatic lifting, position feedback and valve heating are available as an option.

Membrane-Safety valve

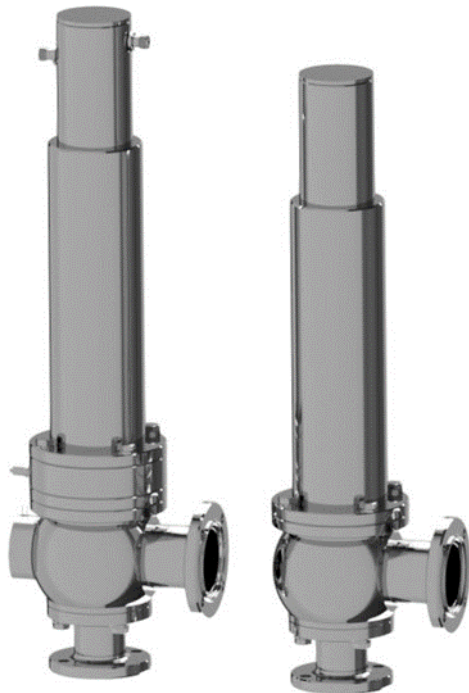


Fig. 1

Cut Membrane-Safety valve



Fig. 2

Usage

For relief in case of inadmissible overpressure

- in production lines with aseptic use cases;
- containers;
- pipelines.

with high and highest requirements for cleanability and contamination safety

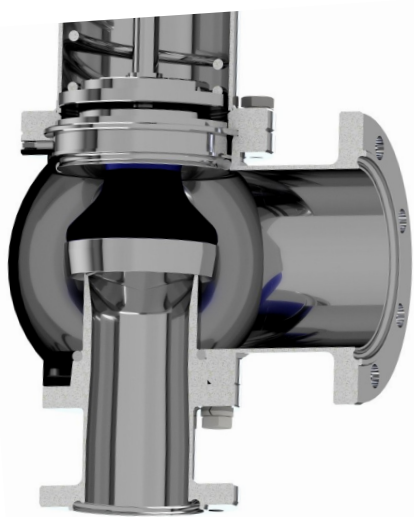
For


- Non-toxic gases;
- vapours;
- neutral, non-adhesive liquids (fluids group II).

Features

Versions



Usage	Features	Versions
	<ul style="list-style-type: none">• Patented membrane sealing system with hermetic separation of product area and spring chamber (Figure 3);• hygienic design with optimal cleanability;• flow-optimized ball housing without dead space;• high blow-off capacities;• modular connection design allows choosing the desired connection type;• very easy to clean and sterilize (CIP/SIP);• integrated leakage monitoring;• seating cleaning manual, pneumatic lifting optional;• setting pressure constant;• TÜV (German Technical Inspection Association) component-tested;• an encased spindle without moving outer parts for the highest operational safety and easy cleaning at the same time (figure 4);• reduced installation height;• quick and easy membrane replacement.	 <p data-bbox="1340 985 1420 1030">Fig. 3</p>

Usage	Features	Versions
	<ul style="list-style-type: none">• Sizes<ul style="list-style-type: none">* DN25 - DN80• Pressure and adjustment ranges<ul style="list-style-type: none">* 0,5 -10 bar• Materials<ul style="list-style-type: none">* 1.4307 AISI 304L, 1.4404 AISI 316L, 1.4435 AISI 316L;* gaskets (FDA-compliant) EPDM• Surfaces<ul style="list-style-type: none">* $Ra \leq 0,8 \mu m$ (in contact with product) optional $Ra \leq 0,4 \mu m$• Special equipment (optional)<ul style="list-style-type: none">* pneumatic lifting;* Valve heating;* Position feedback.• Special version<ul style="list-style-type: none">* Discharge point with increased outlet.	 <p data-bbox="1388 2060 1468 2105">Fig. 4</p>