



FLEXXOLUTIONS

innovators in technical textile products



About FLEXXOVALVE 1000W+

The Flexxovalve 1000W+ over- and under pressure relief valve is designed to avoid extreme pressures in biogas plants and gas-tight silos.

The Flexxovalve can be set to a maximum pressure of about +5.0 mbar and a minimum pressure of -1.0 mbar to ensure the safe operation.

Normally the Flexxovalve is filled at outside temperatures below 3 degrees with an antifreeze liquid. In normal situations, a gas exhaust or an air inlet flow of over 1000 Nm³/h can be realized.

The basic model is constructed from stainless steel-316 parts, and operation is guaranteed by the inverted bucket principle with plastic caps. To check the fluid levels external fill and control instruments are installed.

In this complete new design both liquid chambers are constructed independent and air isolated from the outer wall*, which minimizes the risk of freezing in winter conditions. This unique design combines the minimizing of dilution by condensate and at the same time a minimized heat conduction from outer wall to blocking liquids. At both sides a sight glass is installed for visual inspection with quick opening and closing system. These openings can also be used to enable eventual foam to discharge from the valve or even from the silo.

Easy inspection of the internal and easy cleaning also incorporated in this system.

For detailed information about all benefits for you please contact our sales department.

The safety valve is tested and certified by German TÜV Rheinland under number 124191885.

Innovations:

- Bottom chamber with slope, which ensures condensate to flow back into the silo
 - Both liquid chambers internally isolated to minimize risk of freezing
 - Both sides equipped with antistatic sightglass with quick release
 - Liquid level measurement and filling customer selectable on left or right side
- Optional: one sightglass can be substituted by (certified) bursting disc of 10 mbar

* patent NL2009842





Specifications Flexxvalve 1000 W+

- Design pressure : -5.0 till + 10.0 mbar
- Set pressure : -0.5 and + 3.5 mbar
- Weight (empty) : 78 kg
- Height (incl. exhaust pipe) : 230 cm
- Process connection : DN250 PN16
- Material : W.No 1.4404/SS-316(L)
- Gas flow : min. 1000 Nm³/h, till 2000 m³/h



Specifications Flexxvalve

Type: Flexxvalve 1000
 Working pressure: -0.5 – 5.0 mbar
 Set pressure: -0.5 – 3.5 mbar
 Weight (empty): 57 kg
 Material: SS316 / ws. 1.4404
 Gasflow: up to 1000 m³/hour

CE, ATEX, Ex, 2 G BA (b1)

MAKING SURE ANTIFREEZE CONCENTRATION IS SUFFICIENT FOR LOCAL WEATHER CONDITIONS

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 INNOVATORS IN TECHNICAL TEXTILE PRODUCTS

Year	Month												
2019	2024	1	2	3	4	5	6	7	8	9	10	11	12
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About FLEXXOLUTIONS

Flexxolutions has a broad experience in development, producing and assembling innovative textile solutions for covering and storage systems for gases, liquids and solids. The addition of our subscript “Innovators in technical textile products” explains our ultimate strength. This is the innovative design of products and customer-specific engineering, production and installation of covering and storage systems as silo roofs in normal and gas-tight execution, airborne double membrane roofs serving the biogas industry and storage both in the form of pillow tanks liquids as water and high-quality bags for storage of manure, gases and combinations thereof. Besides this range of products we also designed and supply innovative (patented) disinfections mats, flexible solid storage silo’s, truckliners and products for temporary refugee camps as collapsible water kits, toilets and showers.

All required disciplines in terms of design (Solidworks 3D), tailoring (CNC cutting) and welding (high frequency and thermal) we have in house. Because we have all of these disciplines in house we can make your system in the shortest possible time in relation to quality, design, production and assembly.

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