





BIOGAS & **BIOMETHANE**

Valves • Actuators • Automation Technology





ENHANCING SAFETY AND EFFICIENCY.

Industrial shut-off and control valves. High-end for biogas and biomethane production.

The conversion of organic residues in biogas or biomethane plants requires high-quality valves for the safe and efficient realization of all processes.

EBRO and Stafsjö have many years of experience and expertise in providing tailored solutions for all industry requirements - from substrate feeding and mixing to gas treatment and distribution. In addition, a wide range of products is available to ensure safe and highly efficient operation.

EBRO AND STAFSJÖ: YOUR PARTNERS FOR BIOGAS AND BIOMETHANE PRODUCTION

We offer the best solutions for optimal plant operation because we understand the importance of reliability, efficiency and safety in the biogas and biomethane industry. With our commitment to quality and customer satisfaction, we distinguish ourselves as your reliable partner.

THE EXCELLENT SAFETY AND QUALITY OF OUR PRODUCTS ENSURE THAT YOUR SYSTEM IS SAFE AND RELIABLE:

- Ressource-efficient operational management: focussed on efficiency, thanks to optimal coordination of the valves with suitable actuator and automation technology
- Significant reduction in operating costs: due to improved system performance and reliability
- Sustainable and economical operational management: through minimized energy consumption and optimized processes
- **Certified safety:** our products are approved in accordance with ATEX, SIL, EN 161 and DVGW Gas
- Future-oriented solutions: continuous research and development allows EBRO to stay ahead in our field and bring innovation

YOU CAN RELY ON US: EBRO AND STAFSJÖ ENSURE THAT ALL PRODUCTS COMPLY WITH THE STRICTEST STANDARDS AND REGULATIONS FOR THE SAFE OPERATION OF YOUR SYSTEM AT ALL TIMES.





SOLUTIONS FOR ANY APPLICATION.

Substrate tank Slurry tank Substrate preparation Fermentation Gas storage Desulphurization Gas flare CHP unit Gas preparation Gas distribution

Washing water Hygienization Hot water storage Digestate storage Organic fertilizer

Power Generation:



in Europe corresponds to over

1,75 Mio

Biomethane:



in Germany corresponds to over

+15%

Guaranteed certified:

To guarantee the conformity of our products, we consistently adhere to the current directives and regulations, ensuring that all products used comply with the strictest standards and regulations for safe facility operation.en.

- Pressure Equipment Directive 2014/68/EU
- Gas Appliance Regulation EU/2016/426
 - DVGW Gas
 - EN 161
 - Explosion Protection ATEX 2014/34/EU
 - SIL (IEC 61508 Level 3)

STAFSJÖ KNIFE GATE VALVES

Already used in biomass applications thousands of times.

Stafsjö's modular knife gate valves are characterized by their excellent flow properties and leak-free shut-off. The full passage enables reliable handling of fibrous media and liquids containing solids, which makes them ideal for use in the substrate treatment of biogas plants.

These knife gate valves are ideal for substrate feed and substrate mixing for the fermentation process of organic residues such as liquid manure from livestock farming, sewage sludge, silage, as well as for the treatment of digestate in secondary fermenters and fermentation residue stores.

For thermohydrolysis processes in which organic substances are processed at high temperatures, the MV or XV with wetted parts made of stainless steel or duplex steel is recommended - also ideal for higher pressures and temperatures.



More Information on knife gate valves.

RESILIENT SEATED VALVES

Versatile and reliable

The resilient seated butterfly valves with triple shaft bearing and replaceable liner are DVGW-certified and enable the safe shut-off and regulation of gases in various applications such as raw gas handling, gas purification, flares and gas burners, CHP and heating networks.

On request, these valves are available as safety valves in accordance with EN 161.



More Information on resilientseated butterfly valves.



WB & WB11 Bidirectional WB11: DN 50 – DN 300 WB: DN 350 – 1600



WB12 Bidirectional 4-hole flange DN 150 – DN 1200



WB14 Bidirectional Lug-type DN 50 – DN 600



WB14-E Bidirectional Lug-type DN 50 – DN 600



Z011-A Gas Wafer-type DN 20 – DN 1200



Z411-A / Z414-A Gas For PE/PP pipes with reduced inside diameter DN 40 – DN 600



Z014-A Gas Lug-type DN 20 – DN 600



F012-A Gas Doubleflanged DN 50 – DN 1400

BALL VALVE

Flexible and modular

The 3-piece ball valve is characterized by its versatility and robustness, enabling easy maintenance.

The V-3MH is ideal for safely shutting off pure, neutral or aggressive liquids, gases or vapours.



V-3MH 3-piece ball valve DN 8 – DN 100

HIGH PERFORMANCE VALVES

Reliable under extreme conditions

The double eccentric design, high-quality materials and precision machining ensure safety even under extreme operating conditions, such as in combined heat and power plants (CHP).



More Information on high performance valves.



HP111 Wafer-type DN 50 – DN 1200



HP114 Lug-type DN 50 – DN 1200

ACTUATORS & CONTROLS

Energy-efficient with uncompromising performance

EBRO actuators enable butterfly valves and knife gate valves to be actuated with high-efficiency. Due to precision alignment of the actuators with other components, applications benefit from increased energy-efficiency and reduced operating costs.

Customized configurations of individual product components are possible.



EB-SYD (Scotch-Yoke) Pneumatic actuator Double-acting 27 Nm – 9.768 Nm



EB-SYS (Scotch-Yoke) Pneumatic actuator Single-acting 35 Nm – 3.590 Nm



SC Linear actuator Double-acting 4.712 N – 48.255 N (6 bar)



SBU IO-Link Smart Box Unit End Position Monitoring



E50 – E210 Electric quarter-turn actuator 24V AC/DC, 230V AC, 400V AC Battery pack for emergeny function 40 Nm – 4.000 Nm



More Information on actuators and automation technology.



HEADQUARTERS

EBRO ARMATUREN Gebr. Bröer GmbH

Karlstraße 8 D-58135 Hagen Germany

№ +49 2331 904-0
☑ post@ebro-armaturen.com
● www.ebro-armaturen.com

Stafsjö Valves AB

Störnings Väg 3 SE-618 95 Stavsjö Sweden

№ +46 11 39 31 00
☑ sales@stafsjo.com
@ www.stafsjo.com

A Bröer Group company **www.broeer-group.com**

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