BIOGAS & BIOMETHANE

Valves • Actuators • Automation Technology

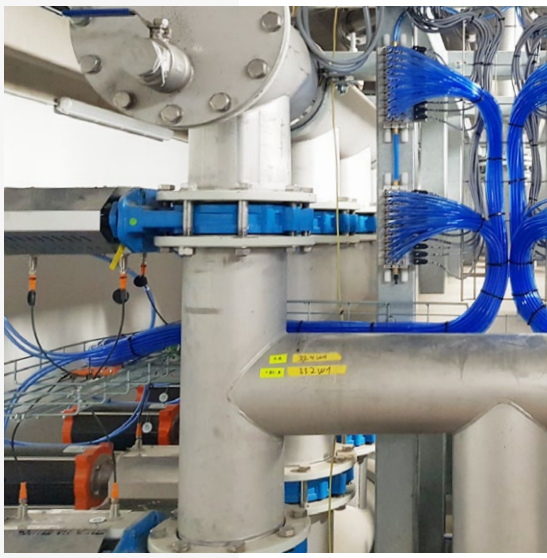
EBRO ARMATUREN®

Stafsjö
SINCE 1666

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.



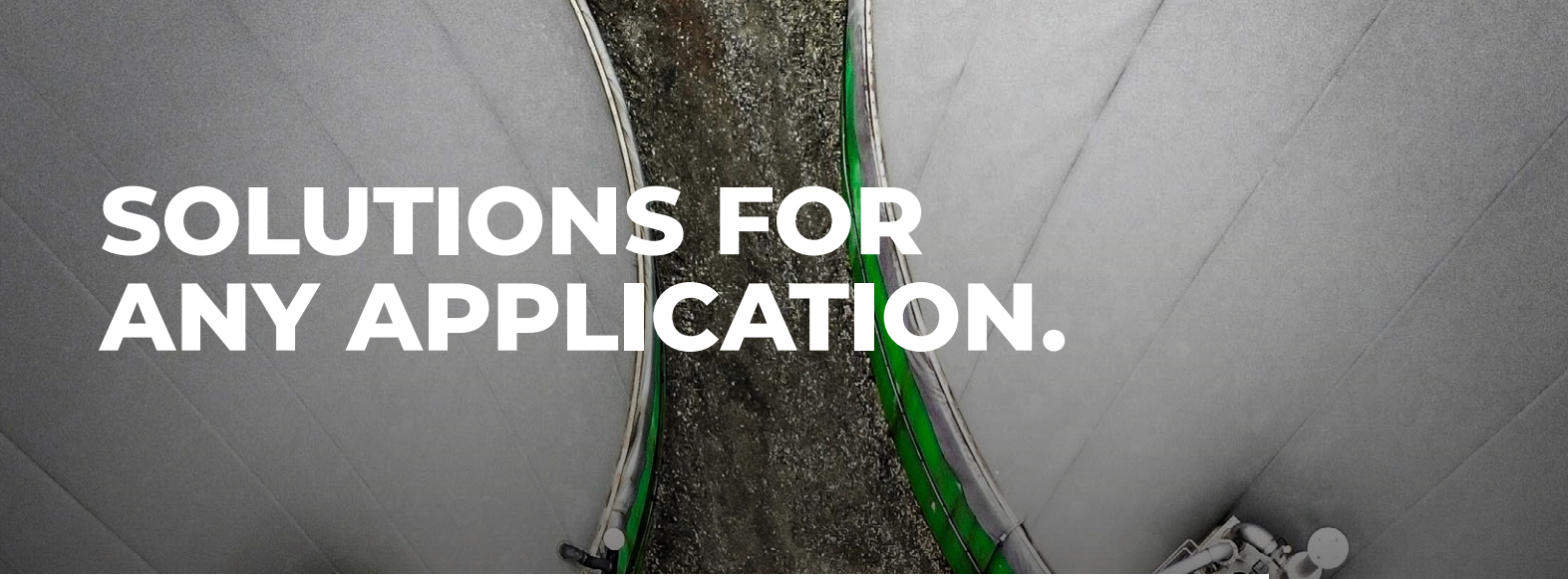
EBRO AND STAFSJÖ: YOUR PARTNERS FOR BIOGAS AND BIOMETHANE PRODUCTION

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:

> 500 MW

in Europe corresponds to over

1,75 Mio

Households

Biomethane:

1650 MWh

in Germany corresponds to over

+15%

Production

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.

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

WB14
Bidirectional
Lug-type
DN 50 – DN 600

WB12
Bidirectional
4-hole flange
DN 150 – DN 1200

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

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 resilient-seated butterfly valves.

Z011-A Gas
Wafer-type
DN 20 – DN 1200

Z014-A Gas
Lug-type
DN 20 – DN 600

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

ADAPTIVE INDUSTRIAL SOLUTIONS

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