



WATER & WASTEWATER TECHNOLOGY

Valves • Actuators • Automation technology



TRIED AND TESTED. FOR GENERATIONS.



SUSTAINABLE AND EFFICIENT VALVE SOLUTIONS FOR WATER MANAGEMENT

Potable water is our vital resource and must be handled with care during extraction, treatment, and distribution. In contrast, wastewater and sludge involve aggressive and abrasive media. This places the highest demands on the quality and durability of components used in water and wastewater technology.

MAXIMUM EFFICIENCY AND SAFETY FOR YOUR SYSTEM

Robust, reliable, and cost-effective solutions are essential in an industry that operates 24/7 under extreme loads. EBRO shut-off valves and actuators ensure smooth operation, reduce maintenance and operating costs, and deliver maximum safety.

Our products are designed to maintain consistently high performance even under the toughest conditions in particular in water and wastewater treatment. Abrasive particles and aggressive chemicals are reliably managed, ensuring durable and trouble-free function.

CERTIFIED QUALITY AND CUSTOM SOLUTIONS

At EBRO, we rely on certified quality and environmental management systems in accordance with DIN EN ISO 9001 and ISO 14001 – ensuring highest manufacturing standards, efficient processes, and responsible action toward people and the environment.

With our tailored actuator and automation technology, we offer efficient, high-performance systems precisely aligned with specific requirements – all from a single source. Our portfolio includes:

- Butterfly valves and knife gate valves,
- actuator and automation technology, and
- further valves for water technology.

**RELIABLE QUALITY:
OUR VALVES FOR POTABLE-WATER AND GAS SUPPLY MEET
ALL NATIONAL AND INTERNATIONAL DIRECTIVES FOR
MAXIMUM SAFETY AND ABSOLUTE QUALITY.**

SOLUTIONS FOR VARIOUS APPLICATIONS.

Selecting the best valve and the matching shut-off technology is decisive for a valve's service life. Ideal selections can only be made based on precise information. The following reference can help you make the best decisions here.

Feel free to contact our global teams at EBRO and Stafsjö at any time if you need help by drawing on their expertise and products.

	APPLICATION	Z011-A Z014-A	Z414-A Z414-A	F012-A F012-K1	WS112	RSK	DC	WB11 WB	WB14	WB12	MV	KFS/KOS	RV
DRINKING & PROCESS WATER	Water production	■	■	■	■	■	■	■	■			■	■
	Filtration & diaphragm technology	■	■	■								■	■
	Softening / de-acidification	■	■	■								■	
	Disinfection & oxidation	■	■	■								■	
	Ventilation	■										■	
	High-storage tanks	■	■	■	■	■	■					■	■
WASTEWATER	Mechanical cleaning (inlet and pre-clarification)							■	■	■	■	■	■
	Biological cleaning (aeration tanks & secondary clarification)	■	■	■		■	■	■	■	■	■		
	Sludge treatment							■	■	■	■		
	Septic tanks	■		■				■	■	■	■		
	Sludge drainage and drying							■	■	■	■		
	Pump station							■	■	■	■	■	■
	4. Cleaning stage	■	■	■		■	■	■	■	■	■	■	■

Guaranteed certified: We use carefully tested materials for our products that meet with the strict standards of water and wastewater technology. We ensure that our products comply with all national and international directives and regulations.

RESILIENT-SEATED BUTTERFLY AND CONTROL VALVES

Versatile and reliable

Concentric resilient-seated butterfly and control valves are suitable for virtually any area of use in water technology due to their designs and material diversity.

The Z014-A valve series with threaded holes allows for single-sided flanging and can, therefore, be used as a dead-end-service valve.

Approved by DVGW for use in pipeline networks for both potable water and gas supply systems.

Temperature range

-40 °C to +200 °C

Max. allowable pressure (PS)

16 bar



Z011-A

Wafer-type
DN 20 – DN 1000
DVGW-Water



Z011-A Gas

Wafer-type
DN 20 – DN 1000
DVGW-Gas



Z014-A

Lug-type
DN 20 – DN 600
DVGW-Water



Z014-A Gas

Lug-type
DN 20 – DN 600
DVGW-Gas

Z400 SERIES

Specifically for PE/PP piping

The Z400 series has been specifically tailored to plastic pipelines to accommodate the reduced internal diameter of PE/PP pipes.

This design prevents the valve disc from striking the pipe wall in the flange. No reworking of the piping is necessary, which would lead to a reduction in pressure resistance.

The Z414-A valve series with threaded holes allows for single-sided flanging and can, therefore, be used as a dead-end-service valve.

Nominal size

da50 (DN 40) – da630 (DN 600) = SDR 11

da50 (DN 40) – da500 (DN 500) = SDR 17/17.6/SDR.33)

Temperature range

-10 °C to +160 °C

Max. allowable pressure (PS)

10 bar (SDR 11; PE-80)

10 bar (SDR 17; PE-100)

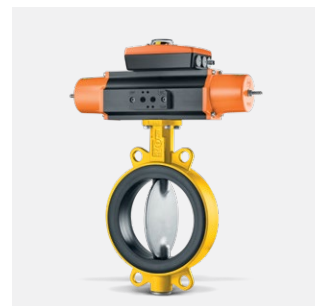
6 bar (SDR 17.6; PE-80)

5 bar (SDR 33; PE-100)



Z411-A

Wafer-type
DN 50 – DN 600
DVGW-Water



Z411-A Gas

Wafer-type
DN 50 – DN 600
DVGW-Gas



Z414-A

Lug-type
DN 50 – DN 600
DVGW-Water



Z414-A Gas

Lug-type
DN 50 – DN 600
DVGW-Gas

DOUBLE-FLANGED BUTTERFLY VALVES

For heavy-duty applications

This concentric, resilient-seated double-flanged butterfly valve features a robust body and a vulcanized liner, engineered for heavy-duty applications in cooling and industrial water circuits as well as in desalination plants.

The F012-A with DVGW-Gas approval is intended for use in gas piping.

The F012-A is also the ideal solution for single-sided flanging with double flanges.

Temperature range

-40 °C to +200 °C

Max. allowable pressure (PS)

25 bar



F012-A & F012-A Gas

Double-flanged

F012-A:

DN 20 – DN 1200, DVGW-Water

F012-A Gas

DN 20 – DN 600, DVGW-Gas

Robust and dependable

The F012-K1 is a robust, concentric, resilient-seated double-flanged butterfly valve for potable water supply lines. It has a short face-to-face (K1) and DVGW approval.

Temperature range

-40 °C to +200 °C

Max. allowable pressure (PS)

16 bar



F012-K1 & F012-K1 Gas

Double-flanged

F012-K1:

DN 20 – DN 2000, DVGW-Water

F012-K1 Gas

DN 20 – DN 2000, DVGW-Gas



More information on
resilient-seated butterfly valves.

KNIFE GATE VALVES

WB & WB11

Modular and bidirectional

The modular, bidirectional WB11 and WB Stafsjö knife gate valves have excellent flow characteristics and provide reliable leak-free isolation. They are ideal for liquids with solid content, such as sewage sludges, due to their full bores and designed for sewage systems with solid contents of up to 5%.

The knife gate valves can be clamped between flanges without any issues. This provides secure sealing in industrial and sewage systems.

Temperature range

-10 °C to +120 °C

Max. allowable pressure (PS)

10 bar (depending on nominal size)



**More information
on the WB & WB11.**



WB & WB11

Bi-directional

WB11: DN 50 – DN 300

WB: DN 350 – DN 1600

WB14

Versatile and unidirectional

Stafsjö's WB14 offers outstanding flow properties and reliable, leak-free bi-directional isolation.

Threaded bores for lug-type connection permit one-sided disconnection from sewage pipes without reducing operating pressure. This valve can be used in water, sludge, and biomass transport. It is ideal for demanding sewage systems.

Temperature range

-10 °C to +120 °C

Max. allowable pressure (PS)

10 bar (depending on nominal size)



**More information
on the WB14.**



WB14

Bi-directional

DN 50 – DN 600



KNIFE GATE VALVES

WB12

Robust and bi-directionally sealing

The WB12 knife gate valve with bi-directional seal and square flanges offers extended surface spacing and integrated flange seals. This makes installation and replacement of top-mounted knife gate valves easier.

Dead-end service is also possible with these knife gate valve flanges. This knife gate valve is ideal for challenging applications in sewage systems. It has been designed specifically for use with sludge and liquids that carry solid particles.

Temperature range

max. +120 °C

Max. allowable pressure (PS)

4 bar (depending on nominal size)



**More information
on the WB12.**



WB12

Bi-directional
DN 150 – DN 200

MV

Versatile and unidirectional

The unilaterally sealing MV knife gate valve can be simply clamped between flanges in sewage pipes that carry medium with solid contents of up to 5%. It is particularly suitable for economic use in sewage treatment plants.

Use of V-panels opens up the option of applying precise product-flow control, which is ideal for efficient and reliable performance in demanding wastewater applications.

Temperature range

-10 °C to +120 °C

Max. allowable pressure (PS)

10 bar (depending on nominal size)



**More information
on the MV.**



MV

Uni-directional, semi-lug
DN 50 – DN 1800



RSK – CHECK VALVE

Universal use and robust design

The versatile wafer-type check valve with its particularly simple and robust design can be installed vertically or horizontally.

A key highlight is its compact face-to-face dimension. It is centered using the valve body's outer diameter. At the same time, the holding ring makes installation easier. Reliable sealing requires a backpressure of at least 0.3 bar.

Temperature range

0 °C to +200 °C

Max. allowable pressure (PS)

8-bar plastic design

16-bar metal design

(based on nominal width and body material)



RSK

Wafer-type check valve
DN 32 – DN 400

DC – CHECK VALVE

Universal use and robust design

The dual-plate check valve stands out for its excellent shaft sealing. This not only optimizes service life but also increases operational safety.

Temperature range

0 °C to +130 °C

Max. allowable pressure (PS)

16 bar (up to DN 250)

10 bar (as of DN 300)

(based on nominal width and body material)



DC

Dual-plate check valve
DN 50 – DN 600



More information on
check valves.

ACTUATOR TECHNOLOGY

Energy-efficient with uncompromising performance

EBRO actuators enable butterfly valves and knife gate valves to be actuated with high-efficiency. No compromises, but rather through seamless component integration, energy efficiency is enhanced. Individual configurations of product components are possible upon customer request to minimize total cost of ownership.

Our challenge is to precisely align valves and actuators with customer needs. Automation technology simplifies complex systems, reduces errors, and accelerates processes.



**More information
on actuator technology.**



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)



E50 – E210

Electric actuator
24V AC/DC, 230V AC, 400V AC
40 Nm – 4,000 Nm

CONTROLS

Efficiency and precision in process technology

Automated valves play a crucial role in process engineering. They control flow rates, isolate product streams, and reopen pipelines. It is essential for them to operate seamlessly with the actuation system while meeting specific customer requirements.

The use of automated valves minimizes errors in complex systems, enhancing the safety and reliability of operations. Additionally, they enable more efficient and precise work-flows, leading to a reduction in total cost ownership.



**More information on
controls.**



SBU IO-Link

Valve status monitoring



EP3

Electro-pneumatic positioner



Module system E50 – E210

For control applications

WS112

Double-offset "Seal on Disc"

The robust and reliable double-flange valve features a double-offset disc design and media-free bearing system.

Available with EKB or enamel coating.

This shut-off valve is the ideal solution for water supply systems and transmissions pipelines, and is also suitable for underground installation.

Temperature range

-10 °C to +80 °C

Max. allowable pressure (PS)

40 bar



More information
on the WS112.



WS112

DN 100 – DN 2600

KFS / KOS

Flat/oval wedge gate valve

Resilient-seated flat or oval wedge gate valves with EKB coating for use in potable water supply lines.

Inner and outer coatings in RAL 5005 with a minimum layer thickness of 250 µm. The resilient-seated flanged valve provides reliable bi-directional isolation. Its low weight, minimal torque requirement, rolled spindle threads, triple O-ring sealing, and plastic glide shoes all contribute to easy handling.

Also suitable for underground installation.

Available with face-to-face GR14 and GR15.

Temperature range

-20 °C to +50 °C

Max. allowable pressure (PS)

16 bar



KFS / KOS

DN 50 – DN 600 (GR14)

DN 50 – DN 500 (GR15)

COMMERCIAL PRODUCT

RV

Non-return valves

The RV non-return valve prevents backflow through the full bore.

Inner and outer coatings in RAL 5005 with a minimum layer thickness of 250 µm.

Available options:

- Drain screw
- Partial venting unit

Temperature range

-20 °C to +50 °C

Max. allowable pressure (PS)

16 bar



RV

DN 40 – DN 500

COMMERCIAL PRODUCT

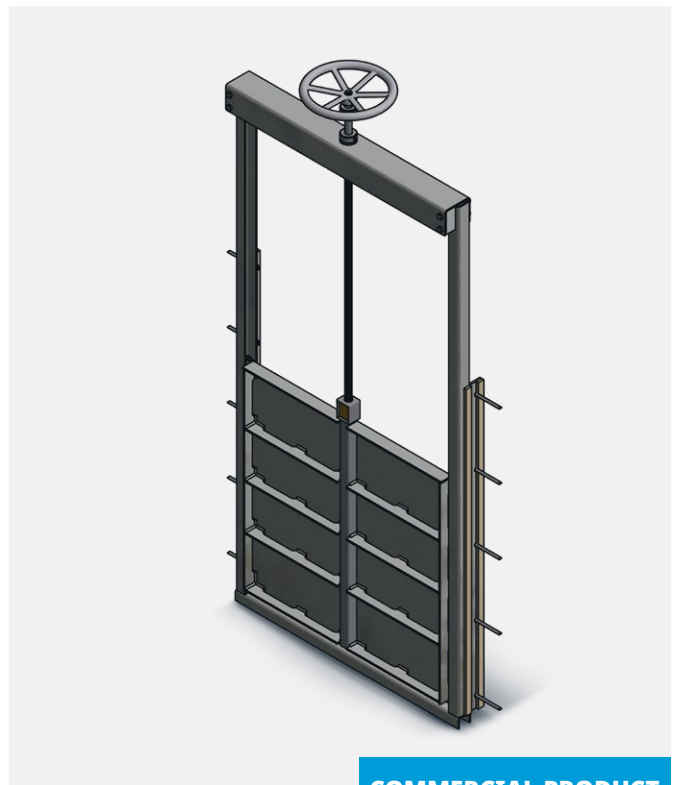
PENSTOCKS

Bodyless shut-off devices (DIN 19569-4)

As welded, compact-design constructions, threaded slide gates, channel gates, and lowering gates are shut-off devices with three- or four-sided sealing. They differ in terms of hydrostatic load capacity and dimensional specifications.

They are installed in front of wall openings or in ducts with composite resin anchors or grout.

Suitable for use in both flow directions.



Penstocks

DN 100 – DN 2000

COMMERCIAL PRODUCT



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