

Quality and safety for maximum output

Semiconductor industry –
Expertise in high-purity applications





High-purity valves for safe processes

When safe and reliable product solutions for the most sophisticated applications and industries are required, our high-quality valves play a decisive role. For the demanding processes in the semiconductor business, we offer high-purity and grease-free valves with different disc and liner materials. Manufactured in our own premises according to the highest production standards and high international approval regulations, they ensure maximum safety and maximum output.

Ultrapure water, wastewater, reclaimed water, CMP or copper removal solutions - as a customer-focused company and industrial valve specialist, our experienced technical staff provides comprehensive project support for all semiconductor applications and assists you with its in-depth-application know-how to realise the best process-specific solution.

Quality in every aspect



Bianca PTFE-lined butterfly valve

Centric butterfly valve in high-purity execution, assembled and packed in double sealed bags in our clean room US federal standard 209E class 10.000 and ISO class 7.

Body construction	Lug, Wafer
Nominal diameter	DN 50 – 350 (1 ¼" – 14")
Max. working pressure	Up to 16 bar
Flange connection	PN10, PN16, ANSI cl. 150, JIS 10K
Temperature range	–20°C to 200°C
Body material	Ductile iron
Disc-shaft (one piece)	PFA overmoulded
Liner material	PTFE with EPDM or FPM elastomeric energizer

Desponia® Elastomer-lined butterfly valve

Centric butterfly valve in grease-free execution, assembled and packed in our special cleaning facility.

Body construction	Wafer, Lug
Nominal diameter	DN 25 – 600 (1" – 24 ")
Max. working pressure	Up to 16 bar
Flange connection	PN6, PN10, PN16, ANSI cl. 150, JIS 5K, JIS 10K, JIS 16K
Temperature range	–20°C to 200°C
Body material	Ductile iron
Disc material	Ductile iron, Stainless steel, Stainless steel Halar coated, Stainless steel polished
Liner material	EPDM, NBR, FPM and others

Expect more

1

Safety

Our superior and highly reliable valves are assembled in our state-of-the-art clean rooms to ensure failure-free and safe operation.

2

Availability

A high availability of semi-finished components and a flexible production enable short delivery times both for valves and spare parts.

3

Product variety

Process-specific high-purity and grease-free executions can be created thanks to a large range of body, liner and disc materials.

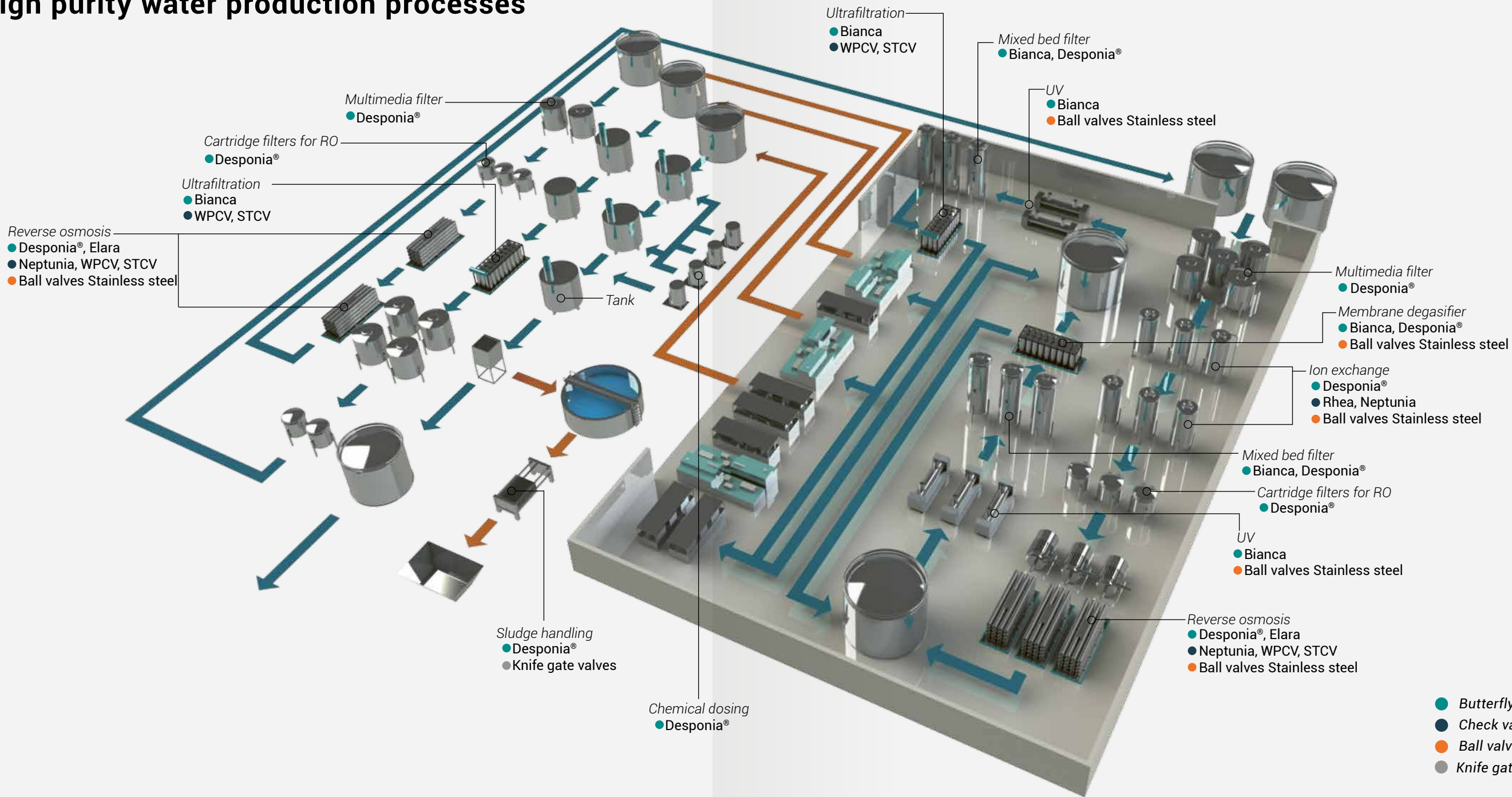
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Ensured quality

Inspection and testing plans (ITP) as well as factory acceptance tests (FAT) can be provided on request.

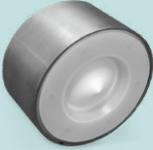
The right solution for your High purity water production processes

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Other products

 Neptunia Dual plate check valve, DN 50-600. Stainless steel body and grease-free execution.	 Rhea Swing check valve, DN 32 – 600. Stainless steel body, grease-free execution.	 WPCV PFA-lined wafer poppet check valve, DN 15-100. Stainless steel body, grease-free execution.	 STCV PFA-lined swing check valve, DN 150-300. Cast steel body, grease-free execution.	 Ball valves A large product range of 2- and 3-way valves. Stainless steel body, grease-free execution.	 Actuators Our valves can be operated manually or automatically by pneumatic actuators as on/off- or regulating services.
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All valves are high purity and / or grease-free

The right selection for your semiconductor production processes

	Media	Pressure range	Temperature range	Abrasion	Corrosion	Valve
High purity water processes						
Multimedia filter	Water	2-5 bar	15-30°C	Moderate	Low	Desponia® with stainless steel disc and EPDM liner
Ion exchange	Water	2-4 bar	15-40°C	Low	Moderate	Desponia® with Halar coated disc and EPDM or FPM liner
Cartridge filter	Water	2-4 bar	15-40°C	Low	Moderate	Desponia® with Halar coated disc and EPDM or FPM liner
Reverse osmosis (RO)	Water	10-20 bar	20-30°C	Low	Moderate	Desponia® with Halar coated disc and EPDM liner
	Water	10-50 bar	20-30°C	Low	Moderate	Elara with stainless steel body and disc and MPTFE seat
Ultraviolet (UV) treatment	Water	2-6 bar	10-30°C	Low	Moderate	Bianca High-purity or LABS-free with PFA disc and PTFE liner
Mixed bed filter	Water	2-4 bar	15-40°C	Low	Moderate	Bianca High-purity or LABS-free with PFA disc and PTFE liner
Membrane degasifier	Water, dissolved gases	1-3 bar	10-30°C	Low	Moderate	Plastic piping and valves
Ultrafiltration	Water	1-3 bar	10-30°C	Low	Moderate	Bianca High-purity with PFA disc and PTFE liner
Chemical dosing	Wastewater	1-3 bar	10-40°C	Low	Moderate	Bianca with PFA disc and PTFE liner or Desponia® with Halar coated disc and EPDM liner
	Chemicals	1-3 bar	10-40°C	Low	High	Bianca with PFA disc and PTFE liner
Sludge Handling	Wastewater	1-3 bar	10-30°C	Low	Moderate	Desponia® with stainless steel disc and EPDM liner or Bianca with PFA disc and PTFE liner
	Semi-solid	1-3 bar	10-30°C	High	High	Knife gate valves
High purity gas processes						
Compressors and cooling water plant	Air	10-40 bar	Ambient	Low	Low	Bianca with stainless steel disc and PTFE liner or Elara with stainless steel body and disc and MPTFE seat
	Water	2-4 bar	15-25°C	Low	Low	Desponia® with stainless steel disc and EPDM or NBR liner
Pre-Purification units	Compressed air	10-40 bar	15-35°C	Low	Low	Bianca with stainless steel body and stainless steel polished disc and PTFE liner or Elara with stainless steel body and disc and MPTFE seat
Cold box	Liquefied gases	1-5 bar	-150°C – -200°C	Low	Low	Cryogenic ball valves
Bulk tanks and Vaporizers	Liquefied gases	1-5 bar	-150°C – -200°C	Low	Low	Cryogenic ball valves
	Vaporized gases	5-20 bar	Ambient	Low	Low	Elara with stainless steel body and disc and MPTFE seat
Purifiers	Gases	5-30 bar	Ambient	Low	Low	Elara with stainless steel body and disc and MPTFE seat

Other products



Knife gate valves

Uni-directional and bi-directional knife gate valves, available in various executions.



Double eccentric butterfly valve Elara

With carbon steel or stainless steel body, designed for heavy duty applications up to 50 bar.



Floating ball valves

2- way valves in stainless steel, available in flanged execution. Suitable for cryogenic applications.

Ultrapure water for the semiconductor industry

With InterApp butterfly valves
Bianca and Desponia®



- Butterfly valves Bianca
- Butterfly valves Desponia®
- Check valves Neptunia
- Ball valves Stainless steel
- Actuators IA motion

To ensure a failure-free operation and the manufacture of fault-free products, ultrapure water has top priority in the field of electronics and in the semiconductor industry.

Ovivo, a globally active company and specialist in water treatment, provides the electronics and semiconductor industry with high-tech systems for ultrapure water in the areas of microprocessors, digital member chips, FPD and TFT. When designing and building, the extremely high standards for pretreatment, make-up and polishing of the semiconductor industry must be taken into account.

The high-purity butterfly valve Bianca is produced in Switzerland. High-purity grade PFA

granulate is used for the disc lining. First, all components are cleaned and dried in a special cleaning facility. Then, the butterfly valves are assembled in a clean room of class 10,000 / ISO class 7 and checked for leak-tightness using ultrapure air. After a functional check, they are packed and sealed individually in a double bag and in an overall protective packaging.

For the butterfly valve Desponia in grease-free design, the components are also cleaned and dried in a special cleaning facility and assembled without using of lubricants. The special packaging of the butterfly valves guarantees that they remain absolutely clean until they are installed.



We are there for you. With our global expertise in industrial applications, we understand your requirements and offer expert advice at every stage of your project. At the same time, you can benefit from our international product standards thanks to our global know-how. Our highly skilled technical team, coupled with the quality and durability of our products, makes us a reliable partner for industrial valve solutions.