



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





Expect more

Safety

Our superior ar are assembled clean rooms to safe operation.

Our superior and highly reliable valves are assembled in our state-of-the-art clean rooms to ensure failure-free and 2

Availability

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

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	1 ¼" – 14" (DN 50 – 350)			
Max. working pressure	Up to 232 psi (16 bar)			
Flange connection	PN10, PN16, ANSI cl. 150, JIS 10K			
Temperature range	-4°F to 392°F (-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	1" - 24 " (DN 25 - 600)			
Max. working pressure	Up to 232 psi (16 bar)			
Flange connection	PN6, PN10, PN16, ANSI cl. 150, JIS 5K, JIS 10K, JIS 16K			
Temperature range	-4°F to 392°F (-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			

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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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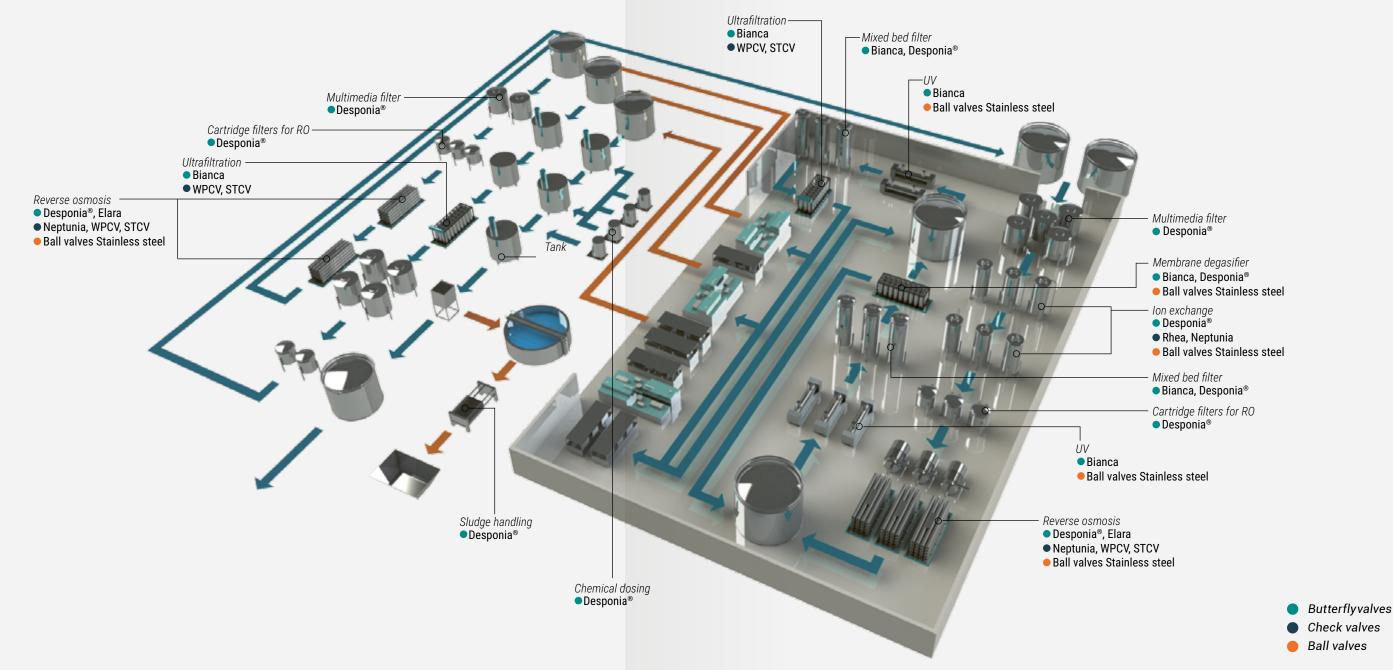
Ensured quality

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

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The right solution

for your semiconductor processes



Other products

All valves are high purity and / or grease-free

Neptunia

Dual plate check valve, Sizes 2"-24". Stainless steel body and grease-free execution.



Rhea

Swing check valve, Sizes 1 ¼"-24". Stainless steel body, grease-free execution.



WPCV

PTFE-lined wafer poppet check valve, Sizes 1/2"-4". Stainless steel body, grease-free execution.



STCV

PTFE-lined swing check valve, Sizes 6"-12". 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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The right selection

for your semiconductor production processes

Multimedia filter Water 29.0-72.5 pai 59-86*F Moderate Low Desponia* with stainless steed disc and EPDM in FPM liner		Media	Pressure range	Temperature range	Abrasion	Corrosion	Valve
Name	High purity water processes						
Cartridge filter Water 29.0-8.0 pai 59-104°F Low Moderate Desponia* with Halar coated disc and EPDM rep Miner Reverse osmosis (R0) Water 145.0-725.2 pai 68-86°F Low Moderate Elara with Halar coated disc and EPDM liner Water 145.0-725.2 pai 68-86°F Low Moderate Elara with Halar coated disc and EPDM liner Water 29.0-87.0 pai 50-86°F Low Moderate Elara with stainless steel body and disc and MPTFE seat Water 29.0-88.0 pai 59-104°F Low Moderate Bianca High-purity or LABS-free with PFA disc and PTFE liner Membrane degasifier Water dissolved gases 14.5-43.5 pai 50-86°F Low Moderate Bianca High-purity or LABS-free with PFA disc and PTFE liner Membrane degasifier Water dissolved gases 14.5-43.5 pai 50-86°F Low Moderate Bianca with PFA disc and PTFE liner or Desponia* with Halar coated disc and EPDM liner Chemical dosing Wastewater 14.5-43.5 pai 50-104°F Low High Bianca with PFA disc and PTFE liner or Desponia* with Halar coated disc and EPDM liner Bianca with PFA disc and PTFE liner or Desponia* with Halar coated disc and EPDM liner or Bianca with PFA disc and PTFE liner or Desponia* with Halar coated disc and EPDM liner or Bianca with PFA disc and PTFE liner or Desponia* with Halar coated disc and EPDM liner or Bianca with PFA disc and PTFE liner or Desponia* with Halar coated disc and EPDM liner or Bianca with PFA disc and PTFE liner or Bianca with Stainless steel disc and EPDM or NBR liner Pre-Purification units Compressors and cooling water plant Water 29.0-80.2 pai 59-77°F Low Low Deponia* with stainless steel dody and disc and MPTFE seat Low Low Copogenic ball valves Low Copogenic ball valves Low Copogenic ball valves Low Copogenic ball valves	Multimedia filter	Water	29.0-72.5 psi	59-86°F	Moderate	Low	Desponia® with stainless steel disc and EPDM liner
Water 14.5 0.290.1 psi 68-86°F Low Moderate Eara with Halar coated disc and EPDM liner	Ion exchange	Water	29.0-58.0 psi	59-104°F	Low	Moderate	Desponia® with Halar coated disc and EPDM or FPM liner
Reverse cosmosis (RO) Water 145.0-725.2 ps 68-86°F Low Moderate Elara with stainless steel body and disc and MPTE seat	Cartridge filter	Water	29.0-58.0 psi	59-104°F	Low	Moderate	Desponia® with Halar coated disc and EPDM or FPM liner
Water 145.0-725.2 psi 68-86°F Low Moderate Elara with stainless steel body and disc and MPTFE seat	Daviera como sia (DO)	Water	145.0-290.1 psi	68-86°F	Low	Moderate	Desponia® with Halar coated disc and EPDM liner
Mixed bed filter Water 29.0-58.0 psi 59-104°F Low Moderate Blanca High-purity or LABS-free with PFA disc and PTFE liner Ultrafiltration Water 14.5-43.5 psi 50-86°F Low Moderate Blanca High-purity with PFA disc and PTFE liner Chemical dosing Wastewater 14.5-43.5 psi 50-104°F Low Moderate Blanca with PFA disc and PTFE liner or Desponia" with Halar coated disc and EPDM liner Sludge Handling Wastewater 14.5-43.5 psi 50-104°F Low High Blanca with PFA disc and PTFE liner or Desponia" with Halar coated disc and EPDM liner or Blanca with PFA disc and PTFE liner Sludge Handling Wastewater 14.5-43.5 psi 50-86°F Low Moderate Desponia" with stainless steel disc and EPDM liner or Blanca with PFA disc and PTFE liner Sludge Handling Semi-solid 14.5-43.5 psi 50-86°F Low Moderate Desponia" with stainless steel disc and EPDM liner or Blanca with PFA disc and PTFE liner or Blanca with P	Reverse osmosis (RO)	Water	145.0-725.2 psi	68-86°F	Low	Moderate	Elara with stainless steel body and disc and MPTFE seat
Membrane degasifier Water, dissolved gases 14.5-43.5 psi 50-86°F Low Moderate Plastic piping and valves Ultrafiltration Water 14.5-43.5 psi 50-86°F Low Moderate Bianca High-purity with PFA disc and PTFE liner or Desponia* with Halar coated disc and EPDM liner Chemical dosing Wastewater 14.5-43.5 psi 50-104°F Low High Bianca with PFA disc and PTFE liner or Desponia* with Halar coated disc and EPDM liner Sludge Handling Wastewater 14.5-43.5 psi 50-86°F Low Moderate Desponia* with stainless steel disc and EPDM liner or Bianca with PFA disc and PTFE liner Compressors and cooling water plant Air 145-0-580.2 psi 50-86°F High High Knife gate valves Pre-Purification units Compressed air 145.0-580.2 psi 59-77°F Low Low Desponia* with stainless steel disc and PTFE liner or Elara with stainless steel body and disc and MPTFE seat Pre-Purification units Compressed air 145.0-580.2 psi 59-95°F Low Low Low Desponia* with stainless steel body and disc and MPTFE seat Cold box Liquefied gases 14.5-72.5 psi -238328°F Low Low Cryogenic ball valves Bulk tanks and Vaporizers Vaporized gases	Ultraviolet (UV) treatment	Water	29.0-87.0 psi	50-86°F	Low	Moderate	Bianca High-purity or LABS-free with PFA disc and PTFE liner
Ultrafiltration Water 14.5-43.5 psi 50-86°F Low Moderate Bianca High-purity with PFA disc and PTFE liner or Desponia* with Halar coated disc and EPDM liner On Desponia* with Halar coated disc and EPDM liner On Desponia* with Halar coated disc and EPDM liner On Desponia* with Halar coated disc and EPDM liner On Desponia* with Halar coated disc and EPDM liner On Desponia* with Halar coated disc and EPDM liner On Desponia* with Halar coated disc and EPDM liner On Desponia* with Halar coated disc and EPDM liner On Desponia* with Halar coated disc and EPDM liner On Desponia* with PFA disc and PTFE liner On Desponia* with Stainless steel body and disc and PTFE liner On Desponia* with Stainless steel body and disc and PTFE liner On Desponia* with Stainless steel body and disc and MPTFE seat Desponia* with Stainless steel body and Stainless steel polished disc and PTFE liner On Desponia* with Stainless steel body and Stainless steel polished disc and PTFE liner On Desponia* with Stainless steel body and Stainless Steel Body an	Mixed bed filter	Water	29.0-58.0 psi	59-104°F	Low	Moderate	Bianca High-purity or LABS-free with PFA disc and PTFE liner
Chemical dosing Wastewater 14.5-43.5 psi 50-104*F Low Moderate Desponia* with PFA disc and PTFE liner or Desponia* with Halar coated disc and EPDM liner 14.5-43.5 psi 50-104*F Low High Bianca with PFA disc and PTFE liner Desponia* with stainless steel disc and EPDM liner or Bianca with PFA disc and PTFE liner Desponia* with stainless steel disc and EPDM liner or Bianca with PFA disc and PTFE liner Desponia* with stainless steel disc and EPDM liner or Bianca with PFA disc and PTFE liner Desponia* with stainless steel disc and EPDM liner or Bianca with PFA disc and PTFE liner Desponia* with stainless steel disc and EPDM liner or Bianca with PFA disc and PTFE liner Desponia* with Stainless steel disc and EPDM liner or Bianca with PFA disc and PTFE liner or Bianca with Stainless steel disc and PTFE liner or Bianca with Stainless steel body and disc and MPTFE seat Desponia* with Stainless steel body and disc and MPTFE seat Desponia* with Stainless steel body and Stainless steel polished disc and PTFE liner or Bianca with Stainless steel body and Stainless steel polished disc and PTFE liner or Bianca with Stainless steel body and Stainless steel polished disc and PTFE liner or Bianca with Stainless steel body and disc and MPTFE seat Cold box Liquefied gases 14.5-72.5 psi -238 - 328*F Low Low Cryogenic ball valves Vaporized gases 72.5-290.1 psi Ambient Low Low Elara with Stainless steel body and disc and MPTFE seat	Membrane degasifier	Water, dissolved gases	14.5-43.5 psi	50-86°F	Low	Moderate	Plastic piping and valves
Chemical dosing Chemical dosing	Ultrafiltration	Water	14.5-43.5 psi	50-86°F	Low	Moderate	Bianca High-purity with PFA disc and PTFE liner
Sludge Handling Mastewater	Chemical dosing	Wastewater	14.5-43.5 psi	50-104°F	Low	Moderate	
Sludge Handling Semi-solid 14.5-43.5 psi 50-86°F High High Knife gate valves Compressors and cooling water plant Water 29.0-58.0 psi 59-77°F Low Low Low Bianca with stainless steel disc and PTFE liner or Elara with stainless steel body and disc and MPTFE seat Water 29.0-58.0 psi 59-77°F Low Low Bianca with stainless steel disc and PTFE liner or Elara with stainless steel body and disc and MPTFE seat Desponia® with stainless steel body and stainless steel polished disc and PTFE liner or Elara 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 14.5-72.5 psi -238328°F Low Low Cryogenic ball valves Vaporized gases 72.5-290.1 psi Ambient Low Low Elara with stainless steel body and disc and MPTFE seat Coryogenic ball valves Vaporized gases 72.5-290.1 psi Ambient Low Low Elara with stainless steel body and disc and MPTFE seat		Chemicals	14.5-43.5 psi	50-104°F	Low	High	Bianca with PFA disc and PTFE liner
Compressors and cooling water plant Air 145.0-580.2 psi Ambient Low Low Elara with stainless steel disc and PTFE liner or Elara with stainless steel body and disc and MPTFE seat Water 29.0-58.0 psi 59-77*F Low Low Desponia® with stainless steel disc and EPDM or NBR liner Pre-Purification units Compressed air 145.0-580.2 psi 59-95*F 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 14.5-72.5 psi -238328*F Low Low Cryogenic ball valves Vaporized gases 72.5-290.1 psi Ambient Low Low Elara with stainless steel body and disc and MPTFE seat	Sludge Handling	Wastewater	14.5-43.5 psi	50-86°F	Low	Moderate	·
Compressors and cooling water plant Water 29.0-58.0 psi 59-77°F Low Low Desponia® with stainless steel disc and PTFE liner or Elara with stainless steel body and disc and MPTFE seat Pre-Purification units Compressed air 145.0-580.2 psi 59-95°F Low Low Bianca with stainless steel disc and EPDM or NBR liner Low Desponia® 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 14.5-72.5 psi -238328°F Low Low Cryogenic ball valves Uniquefied gases 14.5-72.5 psi -238328°F Low Low Cryogenic ball valves Elara with stainless steel body and disc and MPTFE seat Elara with stainless steel body and disc and MPTFE seat Elara with stainless steel body and disc and MPTFE seat		Semi-solid	14.5-43.5 psi	50-86°F	High	High	Knife gate valves
Compressors and cooling water plant Air 145.0-580.2 psi Ambient Low Low Desponia® with stainless steel body and disc and MPTFE seat Pre-Purification units Compressed air 145.0-580.2 psi 59-77°F Low Low Desponia® with stainless steel disc and EPDM or NBR liner 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 14.5-72.5 psi -238328°F Low Low Cryogenic ball valves Liquefied gases Vaporized gases 72.5-290.1 psi Ambient Low Low Elara with stainless steel body and disc and MPTFE seat Low Cryogenic ball valves Elara with stainless steel body and disc and MPTFE seat	h purity gas processes						
Pre-Purification units Compressed air Liquefied gases		Air	145.0-580.2 psi	Ambient	Low	Low	
Cold box Liquefied gases Liquefied gas	piant	Water	29.0-58.0 psi	59-77°F	Low	Low	Desponia® with stainless steel disc and EPDM or NBR liner
Bulk tanks and Vaporizers Liquefied gases 14.5-72.5 psi -238328°F Low Low Cryogenic ball valves Vaporized gases 72.5-290.1 psi Ambient Low Low Elara with stainless steel body and disc and MPTFE seat	Pre-Purification units	Compressed air	145.0-580.2 psi	59-95°F	Low	Low	
Bulk tanks and Vaporizers Vaporized gases 72.5-290.1 psi Ambient Low Low Elara with stainless steel body and disc and MPTFE seat	Cold box	Liquefied gases	14.5-72.5 psi	-238 – -328°F	Low	Low	Cryogenic ball valves
Vaporized gases 72.5-290.1 psi Ambient Low Low Elara with stainless steel body and disc and MPTFE seat	Bulk tanks and Vaporizers	Liquefied gases	14.5-72.5 psi	-238 – -328°F	Low	Low	Cryogenic ball valves
Purifiers Gases 72.5-435.1 psi Ambient Low Low Elara with stainless steel body and disc and MPTFE seat		Vaporized gases	72.5-290.1 psi	Ambient	Low	Low	Elara with stainless steel body and disc and MPTFE seat
	Purifiers	Gases	72.5-435.1 psi	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 725 psi.



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®



Check valves Neptunia

Actuators IA motion

Ball valves Stainless steel

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 greasefree 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.





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We are there for you. Anywhere, anytime.

As an international company with extensive product and project expertise, we support you with our sales partners and our technical support team in all parts of the world.

