

Valves for the pharmaceutical industry

Pharmaceutical production –
Maximum plant availability



Uncompromising quality



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Expect more

1 Safety
To ensure absolute cleanliness in specific processes of the pharmaceutical industry, our valves can be assembled in our state-of-the-art clean rooms.

2 Availability
Readily available 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 specially cleaned, 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, U-Section
Nominal diameter	DN 32 – 900 (1 ¼" – 36")
Working pressure range	From 20 mbarA (15 torr) up to 16 bar (232 psi)
Flange connection	PN10, PN16, ANSI cl. 150, JIS 10K
Temperature range	-20°C to 200°C (-4°F to 392°F)
Body material	Ductile iron, Stainless steel
Disc-shaft material (one piece)	Stainless steel, Stainless steel polished, PFA overmoulded
Liner material	PTFE, Ultraflon™* with MVQ or FPM elastomeric energiser

**All disc overmoulding and liner materials used for the pharmaceutical industry have FDA and EC food grade approvals, except for the antistatic PFA on the Bianca discs.*

White PTFE and PFA used on the Bianca are compliant to USP class VI.

Desponia® and Desponia® plus Elastomer-lined butterfly valve

Centric butterfly valve with stainless steel disc or Halar coated disc. Grease-free execution, assembled and packed in our clean room.

Body construction	Wafer, Lug, U-Section
Nominal diameter	DN 25 – 1600 (1" – 64 ")
Working pressure range	From 200 mbarA (150 torr) up to 20 bar (232 psi)
Flange connection	PN6, PN10, PN16, ANSI cl. 150, JIS 5K, JIS 10K, JIS 16K
Temperature range	-20°C to 200°C (-4°F to 392°F)
Body material	Ductile iron, Stainless steel
Disc material	Stainless steel, Stainless steel polished, Stainless steel coated with Halar, PEKK or Ultralene coating® (UHMWPE)
Liner material*	EPDM, NBR, FPM and others

**White liners are available with FDA and EC food grade.*

3 Product variety
Process-specific executions can be created thanks to a large range of body, liner and disc materials.

4 Ensured quality
Inspection and testing plans (ITP) as well as factory acceptance tests (FAT) can be made on request.

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The right selection for your pharmaceutical production processes

Process	Media	Pressure range	Temperature range	Abrasion	Corrosion	Valve
Batch processing	API, excipients	Ambient	77-212°F	Moderate	Moderate	Bianca with SS polished disc and Ultraflon™ liner
	Solvents	Ambient	77-176°F	Low	High	Desponia® with SS disc and EPDM or FPM liner / Bianca with SS disc and PTFE liner
	Water	Ambient	77-176°F	Low	Low	Desponia® with SS disc and EPDM liner
	Air	Vacuum - Ambient	104-572°F	Low	Low	Desponia® / Elara / ball valves depending on temperature and pipe sizes
Sterilisation processes	Saturated steam	15-40 psi	248-284°F	Low	Moderate	Elara with SS body and disc and RPTFE seat
	Hot air	Ambient	320-356°F	Low	Low	Desponia® plus with SS disc and MVQ liner / Ball valves for small pipe sizes
	Ethylene oxide	Vacuum - Ambient	86-140°F	Low	Moderate	Bianca with SS disc and Ultraflon™ liner
	Hydrogen peroxide	Ambient	68-140°F	Low	Moderate	Bianca with SS disc and PTFE liner
Fermentation	Nutrient broth, yeast extract, molasses, corn steep liquor	Ambient	68-86°F	Low	Low	Desponia® with polished SS disc and white EPDM liner
Filtration	API, excipients, solvent	Ambient	77-212°F	Moderate	Moderate	Bianca with SS polished disc and Ultraflon™ liner
	Water	Ambient	77-86°F	Low	Low	Desponia® with SS disc and EPDM liner
Washing and drying	Water, detergent solutions	15-40 psi	77-176°F	Low	Low to moderate	Desponia® with SS disc and EPDM liner
	Air	15-40 psi	77-176°F	Low	Low	Desponia® with SS disc and EPDM liner / Ball valves for small pipe sizes
Heat exchanging	Water	15-145 psi	77-212°F	Low	Low	Desponia® with SS disc and EPDM liner
	Steam	15-290 psi	212-392°F	Low	Moderate	Desponia® with SS disc and ET or FX liner / Elara with SS body and disc and RPTFE seat
	Cooling fluids	15-145 psi	32-59°F	Low	Low	Desponia® with SS disc and EPDM liner
Reacting	Reactants (raw materials, APIs, solvents, etc.)	15-1450 psi	77-572°F	Low to high	Low to high	Bianca with polished SS disc and Ultraflon™ liner; optionally antistatic version (ATEX) / Elara with SS body and disc and RPTFE or metal seat / PFA lined ball valves
	Gases (inert, air, oxygen, etc.)	15-145 psi	77-112°F	Low	Low	Desponia® or Bianca depending on the gas
Solvent recovery	Solvents (ethanol, methanol, acetone, etc.)	Ambient	77-212°F	Low	Low	Bianca with SS or PFA disc and PTFE liner
	Steam	15-145 psi	212-572°F	Low	Moderate	Desponia® with SS disc and EPDM liner
	Water	15-40 psi	77-212°F	Low	Low	Desponia® with SS disc and ET or FX liner / Elara with SS body and disc and RPTFE or metal seat
Cleaning-in-place	Water, flushed water	15-40 psi	77-176°F	Low	Low	Desponia® with SS disc and EPDM liner
	Cleaning agents (caustic, acid)	15-40 psi	112-176°F	Low	High	Bianca with PFA disc and PTFE liner
Sterilisation-in-place	Saturated steam	15-40 psi	248-284°F	Low	Moderate	Elara with SS body and disc and RPTFE seat
	Air	15-73 psi	77-212°F	Low	Low	Desponia® with SS disc and EPDM liner / Ball valves for small sizes
Material transfer	Water, aqueous solutions, solvent	15-73 psi	77-212°F	Low	Low to moderate	Desponia® with SS disc and EPDM liner
	Gases (air, nitrogen) with powder	15-73 psi	59-86°F	Moderate	Low	Desponia® with mirror polished SS disc and EPDM liner or Ultralene coating™ disc and Flucastr liner / Bianca with mirror polished SS disc and Ultraflon™ liner
Waste management	Gaseous and chemical waste	15-73 psi	68-302°F	Low	Medium to high	Desponia® or Bianca with different materials depending off the effective media / Damper valves
	Liquid waste, wastewater	15-40 psi	68-208°F	Medium	Medium to high	Desponia® with SS disc and EPDM liner or Halar® disc and FPM liner
	Solid waste	Ambient	Ambient	High	Medium	Desponia® with Ultralene™ disc and Flucastr liner

Other products



Double eccentric butterfly valve Elara

With carbon steel or stainless steel body, designed for heavy duty applications up to 725 psi.



Pharma stainless steel ball valves

2- way valves in stainless steel, available with 2- or 3-piece body.



Check valves

Stainless steel check valves, Duo check and Disco, available in various executions.



Actuators and accessories

Actuators and a large range of accessories are available to complete the system.

Globally local



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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.

We are there for you.
Anywhere, anytime.

Facts & Figures

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/ 3 manufacturing sites in Switzerland, Spain and China

/ Over 20 sales and distribution companies and export sales partners

/ A dedicated member of the AVK Group since 2010

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info@ch.interapp.net
www.interapp.net

