

Valve solutions for the paper industry

Pulp and paper –
Expertise in demanding industries

Full scale valve solutions



Expect more

1 High resistance
Abrasion and corrosion resistant valves ensure long service life and minimal maintenance.

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 with PFA over-moulded disc.
Especially suitable for handling corrosive media in paper manufacturing processes.

Body construction	Lug, Wafer, U-Section
Nominal diameter	DN 32 – 900 (1 ¼" – 36")
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, Stainless steel
Disc-shaft material (one piece)	PFA overmoulded
Liner material	PTFE

Desponia® Elastomer-lined butterfly valve

Centric butterfly valve with stainless steel disc and abrasive resistant liners. Specifically designed for effective fluid control in various paper manufacturing processes.

Body construction	Wafer, Lug, U-Section
Nominal diameter	DN 25 – 1600 (1" – 64 ")
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, Stainless steel
Disc material	Stainless steel
Liner material	EPDM, NBR, FPM and others

3 Technical support
Our experienced staff is happy to assist you with its in depth application and product know-how to find the best process-specific solution.

4 Easy installation
Compact design and lightweight construction simplify installation and reduce labor costs.

The right selection for your pulp and paper processes

Stages	Media	Pressure range	Temperature range	Abrasion	Corrosion	Valve
Feed preparation						
From recycle	Water, air	1 - 3 bar	15 - 30 °C	Low	Low to moderate	Desponia®
	Chemicals (surfactants, dispersants, agents)	3 - 5 bar	15 - 60 °C	Low	Moderate to high	Desponia®, Bianca
	Recycled pulp slurry	3 - 5 bar	15 - 60 °C	Moderate	Moderate	Desponia®
From wood	Wood logs, water, and bark	1 - 3 bar	15 - 30 °C	High	Low	Desponia®
Pulping						
Mechanical	Wood chips, water	3 - 5 bar	80 - 130 °C	High	Low	Desponia®, Knife gate valve
Chemical (Kraft)	Wood chips, water, sodium hydroxide (NaOH), and sodium sulphite (Na ₂ S)	7-10 bar	160 - 170 °C	Moderate	High	Bianca, PFA-lined ball valves, Knife gate valve
Chemical (Sulphite)	Wood chips, water, sulphurous acid (H ₂ SO ₃), and calcium, magnesium, sodium, or ammonium	6-10 bar	130 - 160 °C	Moderate	High	Bianca, PFA-lined ball valves, Knife gate valve
Semi-Chemical	Wood chips, water, mild chemicals (such as sodium hydroxide, sodium sulphite, or sulphurous acid)	6-10 bar	130 - 160 °C	Moderate	Moderate	Bianca, PFA-lined ball valves, Knife gate valve
Bleaching						
	Pulp slurry, water, bleaching chemicals (chlorine, hydrogen peroxide, oxygen, or ozone)	3 - 5 bar	60 - 90 °C	Low to moderate	Moderate to high	Desponia®, Bianca
Stock preparation						
	Pulp slurry, water, additives (fillers, sizing agents, dyes, etc.)	3 - 5 bar	30 - 60 °C	Low to moderate	Low to moderate	Desponia®
Papermaking						
	Pulp slurry, water	1 - 3 bar	30 - 70 °C	Low	Low	Desponia®
	Steam, air	1 - 3 bar	100 - 130 °C	Low	Low	Desponia®, Elara
Finishing						
	Water and various coating materials	3 - 5 bar	50 - 90 °C	Low to moderate	Low to moderate	Desponia®
Converting						
	Air	1 - 2 bar	15 - 30 °C	Low	Low	Desponia®
HVAC						
	Air, water	1 - 2 bar	15 - 30 °C	Low	Low	Desponia®, Aquaria plus

Usually, Desponia® is with stainless steel disc and EPDM liner and Bianca is with PFA overmoulded disc and PTFE liner.

Other products



Knife gate valves

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



Stainless steel ball valves

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



Check valves

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



Actuators and accessories

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

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.

Facts & Figures

- / 1969 founded in Switzerland
- / 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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