

# Valve solutions for the paper industry

Pulp and paper –  
Expertise in demanding industries





# Full scale valve solutions



## 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

## 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.

**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
<b>Feed preparation</b>						
	Water, air	1 - 3 bar	15 - 30 °C	Low	Low to moderate	Desponia®
<b>From recycle</b>	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®
<b>From wood</b>	Wood logs, water, and bark	1 - 3 bar	15 - 30 °C	High	Low	Desponia®
<b>Pulping</b>						
<b>Mechanical</b>	Wood chips, water	3 - 5 bar	80 - 130 °C	High	Low	Desponia®, Knife gate valve
<b>Chemical (Kraft)</b>	Wood chips, water, sodium hydroxide (NaOH), and sodium sulphite (Na <sub>2</sub> S)	7-10 bar	160 - 170 °C	Moderate	High	Bianca, PFA-lined ball valves, Knife gate valve
<b>Chemical (Sulphite)</b>	Wood chips, water, sulphurous acid (H <sub>2</sub> SO <sub>3</sub> ), and calcium, magnesium, sodium, or ammonium	6-10 bar	130 - 160 °C	Moderate	High	Bianca, PFA-lined ball valves, Knife gate valve
<b>Semi-Chemical</b>	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
<b>Bleaching</b>						
	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
<b>Stock preparation</b>						
	Pulp slurry, water, additives (fillers, sizing agents, dyes, etc.)	3 - 5 bar	30 - 60 °C	Low to moderate	Low to moderate	Desponia®
<b>Papermaking</b>						
	Pulp slurry, water	1 - 3 bar	30 - 70 °C	Low	Low	Desponia®
	Steam, air	1 - 3 bar	100 - 130 °C	Low	Low	Desponia®, Elara
<b>Finishing</b>						
	Water and various coating materials	3 - 5 bar	50 - 90 °C	Low to moderate	Low to moderate	Desponia®
<b>Converting</b>						
	Air	1 - 2 bar	15 - 30 °C	Low	Low	Desponia®
<b>HVAC</b>						
	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.



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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.

## Facts & Figures

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/ 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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-  InterApp Subsidiaries
-  AVK Industrial Companies
-  Export Sales Partners

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