

Maximum plant availability in food processing

Food & beverage industry –
Expertise in customer-specific production processes



The right selection for your food and beverage processes

Stages	Media	Pressure range	Temperature range	Abrasion	Corrosion	Valve
Cleaning						
Washing with water	Water	1 - 5 bar	60 °C	Moderate	Low	Desponia® with SS disc and EE liner
Steam cleaning	Steam	1 - 5 bar	150 °C	Moderate	Moderate	Desponia® with SS disc and ET liner
Chemical cleaning	Detergents, sanitisers	1 - 5 bar	60 °C	Moderate	Moderate to high	Desponia® with SS disc and EE liner
Milling						
	Grains, seeds, other materials	1 bar	30 °C	Moderate	Low	Desponia® with 3OD disc and Flucast NF-liner
Extraction						
Mechanical pressing	Oil, seed	1 - 2 bar	70 °C	Moderate	Low	Desponia® with SS disc and NF liner
Solvent extraction	Oil, seed solvent	1 - 2 bar	70 °C	Low	Moderate	Desponia® with SS disc and NF liner
Cooking						
Boiling, Simmering	Water	1 bar	100 °C	Low	Low	Desponia® with SS disc and EC, NF liner
Steaming	Steam	2 bar	120 °C	Low	Low	Desponia® with SS disc and EC, NF liner
Frying	Cooking oil	1 bar	190 °C	Low	Low	Bianca with SS disc and Ultraflon™ liner
Baking, Roasting	Air	1 bar	230 °C	Low	Low	Elara with SS disc and metal liner
Fermentation						
	Carbohydrate-rich substrates	1 bar	40 °C	Low	Low to moderate	Desponia® with SS disc and EC, NF liner
	Gases	1 bar	40 °C	Low	Moderate	Desponia® with SS disc and SA liner
Emulsification						
	Immiscible liquids, agents	1 bar	90 °C	Low	Low	Bianca with SS disc and PTFE liner
Extrusion						
	Mixtures of ingredients	10-30 bar	100-200 °C	Low to moderate	Low	Bianca with SS disc and Ultraflon™ / Elara with SS disc and R-PTFE liner
Pasteurisation						
	Liquid foods (milk, fruit juice)	1 bar	80 °C	Low	Low	Desponia® with SS disc and NF liner
Dehydration						
Air-drying	Air	1 bar	70 °C	Low	Low	Desponia® with SS disc and SA liner
Freeze-drying	Air	vacuum	-80 °C	Low	Low	Elara with SS disc and metal seat
Distillation						
	Liquid mixtures	1 bar/vacuum	70 °C	Low	Low to moderate	Desponia® with SS disc and SA liner
Filtrations						
	Liquids (e.g. beer, wine)	10 bar	80 °C	Low to moderate	Low to moderate	Desponia® with SS disc and EF, FT liner
	Gases (e.g. air)	10 bar	80 °C	Low	Moderate	Desponia® with SS disc and SA liner
Carbonation						
	Beverages	5 bar	10 °C	Low	Low	Desponia® with SS disc and EF, FT liner

Desponia® and Desponia® plus Elastomer-lined butterfly valve



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, AS, AWWA, etc.
Temperature range	–20°C to 200°C
Body material	Ductile iron GGG40, Stainless steel
Disc material	Stainless steel, Stainless steel polished Ra < 0.4, Super austenitic steel, Super Duplex, Carbon steel
Liner material	White and blue EPDM with FDA and EC No. 1935/2004 compliance. White NBR with FDA and EC No. 1935/2004 compliance. Transparent MVQ with FDA and EC No. 1935/2004 compliance. Other liners available as FPM, etc.
Special executions	Execution for explosive atmospheres Bonded liner for vacuum applications

Bianca PTFE-lined butterfly valve



Body construction	Wafer, Lug, U-Section
Nominal diameter	DN 32–900 (1¼"–36")
Max. working pressure	Up to 16 bar
Flange connection	PN10, PN16, ANSI cl. 150, AS 2129 tab D and E, JIS B2220
Temperature range	–20°C to 200°C
Body material	Ductile iron GGG40.3, Stainless steel
Disc-shaft (one piece)	Stainless steel, Stainless steel polished Ra < 0.4, Duplex, Hastelloy, PFA and PFA antistatic overmoulded (FDA and EU No. 10/2011)
Liner material	PTFE, PTFE antistatic, Ultraflon®, Ultralene™
Special execution	Execution for explosive atmospheres

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Other products



Stainless steel ball valves

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



PTFE-lined ball valves

Full bore ball valves, execution with ceramic ball is available as option for abrasive applications.



Check valves

Stainless steel check valves, Swing and Disco, are 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. 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.