

# Durable valves for steel production

Steel production –  
Expertise in demanding environments



# The right selection for your steel production processes

Stages	Media	Temperature range	Pressure range	Corrosion	Abrasion	Valve
Ironmaking	Air (Blast)	1200°C	3-5 bar	Low	Low	Special Damper valves
	Furnace Gases	150-250°C	1 bar	High	Moderate	Damper valve (Saturnia up to 0.5 bar) or Desponia® with SS disc and FPM liner
	Water	20-50°C	2-6 bar	Low	Low	Desponia® with SS disc and EPDM liner
Steelmaking	Off-gases (CO, CO <sub>2</sub> , etc.)	100-500°C	1-3 bar	Moderate	Moderate	Damper valve
	Water	20-70°C	3-10 bar	Low	Low	Desponia® with SS disc and EPDM liner
Primary forming	Water (Coolants)	20-25°C	3-10 bar	Low	Low	Desponia® with SS disc and EPDM/NBR liner
	Heated water (Coolants)	40-80°C	3-10 bar	Moderate	Moderate	Desponia® with SS disc and EPDM/NBR liner
Secondary forming	Cooling water	20-70°C	3-10 bar	Moderate	Moderate	Desponia® with SS disc and EPDM/NBR liner
	Lubricants	Ambient	2-6 bar	Low	Low	Desponia® with SS/Ductile iron disc and NBR/FPM liner
Pickling	Acid	20-60°C	1-5 bar	High	Moderate	Bianca with PFA-overmoulded disc and PTFE-lined
	Bases	Ambient	1-5 bar	High	Moderate	Bianca with PFA-overmoulded disc and PTFE-lined or Desponia® with SS disc and EPDM liner
	Rinse water	Ambient	2-6 bar	Low to moderate	Low	Bianca with PFA-overmoulded disc and PTFE-lined or Desponia® with Halar coated disc and EPDM liner
	Water	Ambient	2-6 bar	Low	Low	Desponia® with SS disc and EPDM liner
Coating	Cleaning agent	80°C	Ambient	Low	Low	Desponia® LF with SS disc and EPDM liner
	Various paints or polymers	Ambient	2-8 bar	Moderate	Low	Desponia® LF with SS disc and EPDM liner
Acid regeneration	Spent acid	40-60°C	Ambient	High	Moderate	Bianca with PFA-overmoulded disc and PTFE-lined
	Crystallised Salts	60-80°C	Ambient	Moderate	High	Desponia® with Ultralene coating™ disc and FT/FX liner
	Purified Acid	Ambient	Ambient	High	Low	Bianca with PFA-overmoulded disc and PTFE-lined
Water treatment plant	Wastewater	30-70°C	2-6 bar	Moderate	High	Desponia® with SS disc and EPDM liner
	Treated water	20-35°C	2-5 bar	Low	Low	Desponia® with SS disc and EPDM liner
	Chemicals	Ambient	1-5 bar	High	Low	Bianca with PFA-overmoulded disc and PTFE-lined
Gas cleaning systems	Gases (CO, CO <sub>2</sub> , etc.)	100-500°C	1-3 bar	Moderate	Moderate	Damper valve
	Cleaning solutions (scrubbing liquids)	30-60°C	1-5 bar	Moderate	Low	Desponia® with Halar coated, Hastelloy, Super duplex or Super austenitic steel disc and EPDM/FPM 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	PN10, PN16, ANSI cl. 150, AS 2129 tab D and E, JIS B2220
Temperature range	–20°C to 200°C
Body material	Ductile iron, Stainless steel
Disc material	Stainless steel, Halar coated, Hastelloy, Super duplex, Super austenitic steel
Liner material	EPDM, NBR, FPM
Special executions	LABS-free execution

# 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, Stainless steel
Disc-shaft material (one piece)	PFA overmoulded
Liner material	PTFE, Ultraflon®

## Other products



### Saturnia

Damper valve to regulate the flow of fumes and air up to 600°C.



### Check valves

Check valves, Swing and Disco, available in various executions.



### Ball valves

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



### Actuators and accessories

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

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