# Sugar production – Maximum plant availability

# Valves for sugar production







# for your sugar production processes

Stages	Media	Pressure range	Temperature range	Abrasion	Corrosion	Valve
Preparation						
	Water, wastewater	1-6 bar	25-50°C	Moderate	Low	Desponia® with 4C0 disc and E liner
Extraction						
	Water	1-2 bar	70-80°C	Low	Low	Desponia® with 4C0 disc and E or EC liner
	Sugar-rich juice	1-2 bar	70-80°C	Low	Moderate	Desponia® with 4C0 disc and E or EC liner
Clarification						
	Sugar-rich juice	1-2 bar	100-105°C	Low	Moderate	Desponia® with 4C0 disc and EC liner
	Lime milk	1-2 bar	100-105°C	Low	High	Desponia® with 4C0 disc and FT liner
	Sulfite solution	1-2 bar	70-80°C	Low	High	Desponia® with 4C0 disc and EC liner
Evaporation						
	Clarified juice	600 mbarA	60-70°C	Low	Low	Desponia® with 4C0 disc and E or EC liner
	Steam	10-20 bar	120-200°C	Low	Moderate	Desponia® with 4C0 disc and EC or ET liner, Elara with 4C0 disc and TG or IN liner seat
	Evaporated water	600 mbarA	60-70°C	Low	Low	Desponia® with 4C0 disc and E or EC liner
Crystallization						
	Syrup	1 bar	60-70°C	Low	Low	Desponia® with 4C0 disc and E or EC liner
	Steam	10-20 bar	120-200°C	Low	Moderate	Desponia® with 4C0 disc and EC or ET liner, Elara with 4C0 disc and TG or IN liner seat
	Water	1-2 bar	20-25°C	Low	Low	Desponia® with 4C0 disc and E liner
	Sugar crystals	1 bar	40-70°C	Moderate	Low	Desponia® with 4C0 disc and FT or FW liner
Drying						
	Sugar crystals	1 bar	40-70°C	Moderate	Low	Desponia® with 4C0 disc and FT or FW liner
	Hot air	1-2 bar	50-90°C	Low	Moderate	Desponia® with 4C0 disc and E or EC liner
Refining						
	Raw sugar	1 bar	Ambient	Moderate	Low	Desponia® with 4C0 disc and FT or FW liner
	Hot water	1-2 bar	70-80°C	Low	Low	Desponia® with 4C0 disc and E or EC liner
	Phosphoric acid, calcium hydroxide, carbon dioxide	1 bar	Ambient	Low	Moderate	Desponia® with 4C0 disc and E liner
Packaging						
	Raw sugar, white sugar	1 bar	Ambient	Moderate	Low	Desponia® with 4C0 disc and FW liner

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#### Desponia®

### **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				
Disc material	Stainless steel, PEKK coating				
Liner material	EPDM, NBR, FPM				
Special executions	Execution for explosive atmospheres				

#### Elara

# **Double eccentric butterfly valve**



Body construction	Wafer, Lug				
Nominal diameter	DN 50-600 (2"-24")				
Max. working pressure	Up to 50 bar (725 psi)				
Flange connection	PN10, PN16, PN25, PN40, PN50, ANSI: CI 150, CI 300				
Temperature range	−50°C to 400°C (-58°F to 752°F)				
Body material	Carbon steel, stainless steel				
Disc material	Stainless steel				
Seat material	MPTFE, Metal, Fire safe				
Special executions	Grease free, ATEX certified according to directive ATEX 2014/34/EU, Fugitive emission according to ISO 15848-1, DIN3780, MSS-SP-143				

#### Other products



#### Knife gate valves

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



#### PTFE-lined butterfly valve Bianca

DN 32 – 900, Wafer, Lug or U-section, stainless steel or ductile iron body, 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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