

Resistant valves for Li-ion battery production

Li-ion battery production –
Expertise in demanding applications

The right selection for your Li-ion battery processes

Stages	Media	Pressure range	Temperature range	Abrasion	Corrosion	Valve
Preparing the current collectors						
	Copper rich solution, sulfuric acid	1 bar	68 °F-86°F	Low	High	Desponia® with EPDM liner and Halar coated disc, Bianca with PTFE/PFA, PFA-lined ball valves
Preparing the mixture for anode & cathode						
	Active materials, binder, conductive agent, solvent	1 bar	68 °F-86°F	Moderate	Low	Desponia® with Flucast AB/P liner and PEKK disc
Coating and drying						
	Air or nitrogen, evaporated solvent	200 mbarA	158-248°F	Low	Low	Desponia® plus with cold vulcanized EPDM liner and stainless-steel disc
	Electrode slurries	1 bar	158-248°F	Moderate	Low	Bianca with PTFE liner and PFA disc
Calendaring and slitting						
	Air or nitrogen, evaporated solvent	200 mbarA	68 °F-86°F	Low	Low	Desponia® plus with cold vulcanized EPDM liner and stainless-steel disc
Staking/winding and welding						
	Air or nitrogen, evaporated electrolyte	200 mbarA	68 °F-86°F	Low	Low	Desponia® plus with cold vulcanized EPDM liner and stainless-steel disc
Packing and filling						
	Air or nitrogen, evaporated electrolyte	200 mbarA	68 °F-86°F	Low	Low	Desponia® plus with cold vulcanized EPDM liner and stainless-steel disc
	Electrolyte	1bar	68 °F-86°F	Low	Moderate	Desponia® plus with EPDM liner and Halar coated disc
Formation and degassing						
	Air or nitrogen, gases produced during formation	1 bar	68 °F-86°F	Low	Moderate	Desponia® with FPM liner and Halar coated disc
HVAC						
	Air or nitrogen, gases produced during formation	1 bar	158°F	Low	Low	Aquaria plus
	Air	3-35 bar	176 °F	Low	Moderate	Stainless steel ball valves, Rhea and Disco check valves

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, 20 bar with Desponia plus
Flange connection	PN6, PN10, PN16, ANSI cl. 150, JIS, AS, AWWA, etc.
Temperature range	–4°F to 392°F
Body material	Ductile iron, Stainless steel
Disc material	Stainless steel, Stainless steel polished Ra < 0.4, Halar coating and PEKK coating
Liner material	EPDM and Flucast AB/P
Special executions	Execution for explosive atmospheres Cold vulcanised 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	–4°F to 392°F
Body material	Ductile iron, Stainless steel
Disc-shaft (one piece)	Stainless steel, Stainless steel polished Ra < 0.4, Duplex, Hastelloy, PFA overmoulded
Liner material	PTFE, Ultraflon®, Ultralene™
Special execution	Execution for explosive atmospheres High purity

Other products



Stainless steel ball valves

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



PFA-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.