

Reliable and safe valve solutions

Power plants –
Expertise in demanding environments



Efficiency in power plants

The energy market is changing. Years ago nuclear power dominated, today the energy industry is increasingly promoting the use of renewable energies. As a recognised supplier of reliable and durable industrial valves, we offer efficient solutions for the most diverse energy sectors.

Renewable energy

Renewable energies are on the rise worldwide. For a sustainable energy supply, InterApp provides valve solutions for biomass, hydropower as well as wind and solar plants.

Biomass

Biomass power plants and biomass heating plants generate energy from solid fuels. To ensure efficient plant operation, our valves are made of highly wear-resistant materials. They are used in a wide variety of processes to generate electricity and heat.

Hydropower

Hydropower plants have a long-life cycle. As a reliable partner, we provide long-term, reliable and readily available valve solutions for small power plants.

Wind and solar plants

Solar thermal power/electric generation systems collect and concentrate sunlight to produce the high temperature heat needed to generate electricity. InterApp supplies high quality valves ready to work under these extreme conditions providing reliability and proven performance.

Conventional energy

Fossil fuels and nuclear fuels still account for a large share of the global primary energy consumption.

Coal

Coal-fired power plants are usually operated cyclically, so that the valves used are exposed to high load changes. Unplanned failures have a negative impact on profitable plant operation. InterApp contributes to improved plant profitability of coal-fired power plants with abrasion-resistant valves and quick availability of valves and spare parts.

A partner you can rely on

Irrespective of the kind of power plant, a reliable and sustainable partner is essential to guarantee the efficiency of your power plant during its entire lifecycle. As an European manufacturer with an own R&D department and two manufacturing sites in Switzerland and Spain, InterApp stands for high quality valves and a long-term partnership.

InterApp valves are used in power plant processes, such as flue gas desulphurisation in coal and oil-fired power plants or water cooling and water treatment including demineralisation in general.

Coal-fired power plants

- InterApp provides safe valve solutions to power plants for more than 50 years.
- Our valves are installed e.g. in coal-fired power plants in Belgium, Czech Republic, Germany, Lithuania, Poland, Serbia, Slovakia, Ukraine, UK.
- They are used in water cooling systems, water circuits, desulfurization (FGD) and reduction of NOx.
- To meet the specific requirements, a wide range of materials is available for bodies and discs e.g. cast steel bodies and Super Duplex and Super Austenitic discs.
- Desponia® valves are approved according to SIL-2 and Bianca valves according to SIL-3.

Biomass

- InterApp supplies industrial valves for biomass plants for more than 20 years.
- They are used for water treatment, cooling and heating applications as well as air and biogas applications.
- To meet the specific requirements, a wide range of materials is available, e.g. long-lasting NBR-gas liners, specially developed for biomass plants.
- EN161 and SIL-2 certified butterfly valves are available.
- Quality tests comprise pressure test and material test according to DIN EN10204/3.1.
- Our valves can be supplied in special versions suitable for potentially explosive atmospheres and explosive media.

Solar energy

- InterApp's valves solutions have convinced in solar plants for more than 15 years.
- Our valves are used in water treatment plants and power islands or cooling and heating applications.
- In order to meet the specific requirements, we are able to supply centric butterfly valves, as well as double and triple eccentric butterfly valves for severe pressure and temperature conditions.

InterApp quality

- InterApp valves are manufactured in our own premises in Europe. They comply with international rules and regulations.
- All InterApp factories and entities are audited regularly and comply with ISO 9001:2015.

Consistent reliability



Desponia®

Elastomer-lined butterfly valve

Centric butterfly valve for all kind of power plants and working pressures up to 16 bar.

Body construction	Wafer, Lug, U-Section
Nominal diameter	DN 25–1600 (1"–64")
Max. working pressure	Up to 16 bar
Flange connection	PN 6, PN 10, PN 16, ANSI cl. 150, JIS, AS, AWWA, etc.
Temperature range	-20°C to 200°C
Body material	Ductile iron
Disc material	Super austenitic steel, Super Duplex, Stainless steel, PEKK, Hastelloy
Liner material	EPDM, EPDM-HT, NBR, NBR gas, NBR-H, FPM, Flucast® family and others
Special executions	Executions for explosive atmospheres, Quick closing valve EN 161, TA Luft and bonded liner for vacuum

Desponia® plus

Elastomer-lined butterfly valve

Centric butterfly valve for all kind of power plants and working pressures up to 20 bar.

Body construction	Wafer, Lug
Nominal diameter	DN 25–600 (2"–24")
Max. working pressure	Up to 20 bar
Flange connection	PN 6, PN 10, PN 16, PN 25, ANSI cl. 150, JIS, AS, AWWA, etc.
Temperature range	-40°C to 200°C
Body material	Ductile iron, Carbon steel and Stainless steel
Disc material	Super austenitic steel, Super Duplex, Stainless steel, PEKK, Hastelloy
Liner material	EPDM, EPDM-HT, NBR, NBR gas, NBR-H, FPM, Flucast® family and others
Special executions	Executions for explosive atmospheres, Quick closing valve EN 161, TA Luft and bonded liner for vacuum

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Bianca

PTFE-lined butterfly valve

Centric butterfly valve for highly corrosive applications.

Body construction	Wafer, Lug, U-Section
Nominal diameter	DN 32–900 (1¼"–36")
Max. working pressure	Up to 16 bar
Flange connection	PN 10, PN 16, ANSI cl. 150, AS 2129 tab D and E, JIS B2220
Temperature range	-20°C to 200°C
Body material	Ductile iron
Disc-shaft (one piece)	PFA-overmoulded, Duplex
Liner material	PTFE, PTFE antistatic, Ultraflon®
Special executions	Executions for explosive atmospheres

Other products

Elara

Double eccentric high-performance butterfly valve



Body construction	Wafer, Lug
Nominal diameter	DN 50 – 600 (2" – 24")
Max. working pressure	Up to 50 bar
Flange connection	PN10, PN16, PN25, PN40, PN50, ANSI: CI 150, CI 300
Temperature range	-50°C* to 400°C
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

* A low temperature and cryogenic version is available on request.

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Titania

Triple eccentric high-performance butterfly valve



Body construction	Wafer, Lug, Flanged
Nominal diameter	DN 80–1400
Max. working pressure	Up to 50 bar
Flange connection	PN 10, PN 16, PN 25, PN 40, ANSI cl.150/300
Temperature range	-196°C to 700°C
Body material	Cast steel, Stainless steel
Disc material	Cast steel, Stainless steel
Seat material	Stainless steel
Special executions	Execution for explosive atmospheres

Expect more

1

Reliability

Our butterfly valves have proven themselves with their superior technical features. They guarantee a trouble-free operation and long lifetime.

2

Availability

Flexible production sites in Switzerland and Spain and a high availability of valves and spare parts enable short delivery times, even for large sizes.

3

Ensured quality

Inspection and testing plans (ITP) as well as factory acceptance tests (FAT) can be provided on request.

4

Long-term partnership

InterApp valves have proven themselves in power plants since many years. Customers all over the world rely on our proven products and know-how.



Rhea

Swing check valve, DN 32–600
Stainless steel, Duplex and
Super Duplex.



Neptunia

Dual plate check valve, DN 50–600
Ductile iron, Stainless steel, Duplex
and Super Duplex .



Ball valves

A large range of 2 and 3 way
valves are available in different
materials. The range includes
L-bore or T-bore as well as
models with handlever, top
flange or actuators.



Actuators

Depending on the specific require-
ments, InterApp valves can be
operated manually or automatically
by hydraulic, pneumatic or electric
actuators.

Convincing in power plants worldwide

Biomass Plant EOS Stadt Wien, Austria

Since 1999, InterApp supplied Desponia® valves up to DN 400, IA motion, Quick closing valve EN161 and Ball valves 3-piece body BVH23 for the biomass plant of EOS in Vienna. The products are used for water treatment, cooling and heating applications, air and biogas applications.

Biomass Plant Hitachi Zosen Inova AG, Plant AD-Kirchberg, Germany and Plant Jönköping, Sweden

For more than 5 years, InterApp has been supplying Desponia® butterfly valves up to DN 300 in yellow colour, Orbinox knife gate valves type EB up to DN 400 and ball valves 3-piece body BVH23 for the biomass plant. The products are used in the biogas inlet process.

Biomass Plant Cubillos de Sil, Spain

With a surface area of 100,000 square meters and 280,000 tons of biomass per year, this biomass plant will generate renewable energy for the consumption of 50,000 households, where InterApp has supplied Desponia® butterfly valves electric and pneumatic operated since 2021.

Combined Gas Cycle Plant Tamazunchale, Mexico

Since 2021 InterApp has supplied 170 Desponia® butterfly valves with manual and pneumatic actuators, for the biggest power station in Latin America with two gas turbines and one steam turbine and 1,179 MW generation capacity.

“Even after 20 months of operation InterApp valves show no damages at all. They are of excellent quality and convince in terms of reliability and safety.”

Technician — *Coal-fired power plant, Germany*

**Power plant for chemical plant
GA Puławy, Poland**

For the new unit, InterApp started to supply in 2021 Bianca and Desponia® butterfly valves for water treatment station.

**Coal-fired power plant
Power station Ostrołęka, Poland**

In 2020, 800 Desponia® and Bianca butterfly valves in DN 25-1000, as well as ball valves and check valves were supplied to the new full flue gas desulphurization plant.

**Brown-coal-fired power plant
Power Station Konin, Poland**

Since 2008, more than 1300 Desponia® and Bianca butterfly valves in DN 50-1200 have been supplied for the full flue gas desulphurization plant of 1 new and 3 existing power units.

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