

# PEKK coated discs

**Desponia® butterfly valves with PEKK coating provide high resistance, under extreme conditions.**

PEKK (Polyetherketoneketone) is a linear, aromatic, semi-crystalline thermoplastic, widely regarded as one of the highest performing thermoplastic materials in the world.

PEKK is applied to the surface of Desponia® and Desponia® plus discs, in an electrostatic powder coating process. The total thickness of the finished coating is at least 600 microns and can withstand even the most extreme loads, even under high temperatures and harsh conditions.

Its resistance to corrosion, abrasion and high temperatures make it ideal for specific industrial applications, e.g. for the discharge of filtered solids and slurries in chemical processes, as well as slurry handling processes in the mining industry. Thanks to its properties and outstanding durability this thermoplastic is ideal for flue gas desulphurization units in power generation plants. PEKK coated discs can be used for oil & gas specific applications, where they withstand harsh conditions.

Desponia® and Desponia® plus butterfly valves with PEKK-coated discs offer a cost-saving and long-term reliable solution when a material with good non-adhesive properties or excellent mechanical properties at high temperatures is required in demanding environments.

## PEKK compared to Fluoropolymers

Polymer	Abrasion resistance	Coefficient of friction	Mech. prop. at high temp.	Chemical resistance	Heat resistance
PEKK	Excellent	Very good	Excellent	Very good	Excellent
PTFE	Poor	Excellent	Poor	Excellent	Excellent
PFA	Poor	Excellent	Poor	Excellent	Excellent
E-CTFE	Poor	Good	Poor	Excellent	Good



### Product range

**Desponia® and Desponia® plus butterfly valves  
DN 25 – DN 1600**

**Working pressure up to 16 bar**

**Temperature up to 160 °C**

### Typical configurations

**Used in combination with Flucast® liners for  
abrasive applications and FPM liners for high  
temperature and aggressive applications**

Headquartered in Switzerland and part of the AVK Group, InterApp develops, manufactures and markets valves and related accessories. As a customer-focused technology company, we supply comprehensive flow-control solutions to the most demanding industries around the world.