Precise injection of CaC$_2$, Mg. and lime in desulphurization plants

**FCV Flow Control Valve**

The FCV Flow Control Valve has been developed at ThyssenKrupp Steel in Duisburg, Germany where desulphurization plants are already equipped with the new system. After many years of continuous improvement the FCV Flow Control Valve has been commissioned at Tata Steel in Jamshedpur, India.

**Advantages:**

- Smooth and even flow pattern
- Material induced into the elliptic/circular regulating area
- Easy and compact design
- Low wear and not failure-prone
- Material contact zone made of ceramics (AL$_2$O$_3$)
- High durability (no maintenance required over many years)
- Visual control
- Pressure gauge on both ends of the regulating area
- Gauge connection for electrical pressure measurement
- Actuator at customer’s discretion
- Fast and easy inspection

Operating in Desulphurization plants, Steel and Slag Treatment plants at ThyssenKrupp Steel in Duisburg, Germany and Tata Steel in Jamshedpur, India.
Precise injection of CaC₂, Mg. and lime in desulphurization plants

**FCV Flow Control Valve**

**Mode of Operation:**

- **Open 100%**
- **Open 60%**
- **Open 30%**

![Diagram of FCV Flow Control Valve](image)

**Assembly:**

- Three regulating discs are equipped with Al₂O₃ in the material contact zones. An actuator moves the middle disc up to 15 mm, which is sealed with O-rings.
- The manometers are used to optimize settings.

Thanks to the compact design of the device inspection is fast, easy and safe, and requires minimal manual work. To facilitate the inspection work we can provide a specially designed inspection devise.

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