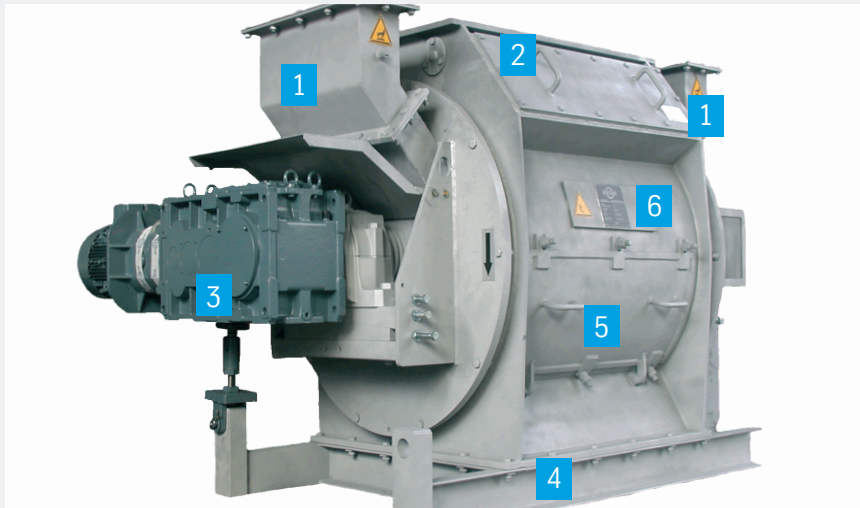


# polysius® Coarse feed valves for raw material, slag and coal



View of a coarse feed valve

- 1 Hot gas inlet/ Hot gas outlet
- 2 Inlet flange
- 3 Combined spur and bevel gear unit with motor and safety coupling
- 4 Base frame with outlet flange
- 5 Inspection cover (from size III)
- 6 Housing with cylindrical housing section made of wear-resistant steel

## Effective protection against false air

Our coarse feed valves form the airlocks upstream of the mill and thus minimise the effect of false air in the negative-pressure grinding process, even though the coarse-grained material is continuously fed and passed onwards. However, the material has to be supplied to our coarse feed valves at a regulated feed rate – e.g. via conveyor belts or bucket elevators.

Distinguishing features of our coarse feed valves are their low overall height and their extreme robustness. The units are primarily used upstream of vertical mills and ball mills. They are excellently suited to supplying coarse-grained bulk materials with grain sizes from 0 to 200 mm to the grinding system – such as limestone or coal.

The coarse feed valves have heatable ducts. When moist or highly sticky materials are used, incrustations on the vane rotor are thus avoided.

We offer two different types according to the application in question: on the one hand, we offer a coarse feed valve for raw material and slag; on the other hand, we offer a coarse feed valve for coal.

Our coarse feed valves have a robust design and a long service life. To protect the vane rotor, the feed material first falls onto an impact table. The sealing strips at the vane rotor and the

cylindrical housing section are made of wear protection plate. To make maintenance easier, there are inspection covers and cleaning ports in the housing. The drive has a safety coupling in order to disconnect the motor from the gear unit in the event of a blockage.

### Your service advantages

- False air in the grinding process is minimised
- Continuous delivery of the feed material
- Extreme robustness
- Depending on the design, for grain sizes from 0 to 200 mm
- Easily installation
- Wearing parts and spare parts can easily be replaced
- Low-noise