

Materials

Volute casing:	**SIC**cast / EN-GJS-400-15 (GGG40)
Impeller:	**SIC**cast
Wear plate:	**SIC**cast
Shaft:	1.0503 (C45)
Shaft sleeve:	1.4301 (1.4462)
Mechanical seal:	Silicon carbide (SIC)

Technical Data

Pump Size:	**DN 400 to DN 1000** (16“ to 40“)
max. Pressure:	**6 bar** (90 PSI)
max. Flow:	**20000 m³/h** (88000 gpm)
Total head:	**up to 40 m** (130 ft)
Rotating Speed:	**up to 1200 rpm**

Fields of Application

Pumping abrasive and / or corrosive liquids.

- Flue gas desulfurization
- Incinerators
- Water treatment
- Seawater desalination

MCC Design

Horizontal single-stage centrifugal pump in back pullout design.

- Pumping of abrasive and corrosive liquids
- All components which are in contact with the liquid are made of **SIC**cast
- Suction flange: Axial
- Discharge flange: Top (Tangential)
- Closed impeller with spatially curved vanes
- Impeller is key driven; reverse rotation (e.g. back-flushing) is possible
- Re-adjustable inclined gap between impeller and wear plate to optimize the efficiency and differential pressure after longer operation
- Single acting, metal free cartridge mechanical seal **DÜTEC**-C with springs located outside of the liquid
- Durable, oil-lubricated roller bearings
- Back pullout design (the complete rotating assembly can be removed while the casing remains on its position)
- In many applications the wear life of **SIC**cast greetly exceeds conventional materials
- The patented design allows the production of extremely large pumps at low costs
- Currently, the most advanced and most durable technology for FGD absorber recirculation pumps

