

### Design:

- / Single-stage with closed impeller Vertical construction
- / Three types of design :
  - 1) discharge through side branch for small sizes
  - 2) discharge through head for large sizes
  - 3) dry installation out of the tank
- / Grease-lubricated ball bearings
- / Absence of radial load on column bearings because of the concentric discharge.
- / Column bearings by the pumped liquid
- / Simple shaft sealing by throttle bush with leakage back to the tank
- / Auxiliary packing rings preventing acid vapors (for safety and maintenance)
- / Axial balancing by front and rear casing wear rings
- / Mating faces protected against acid corrosion
- / Threads protected by cap nuts and O-rings
- / Multi-stage construction available upon request



### Performances:

- / Capacity : up to 2000 m<sup>3</sup>/h (8,800 US gpm)
- / Total head : up to 45 m (148 ft)
- / Maximum operating pressure : 20 bar (290 PSI)
- / Operating temperature range : up to 120 °C (up to 250 °F)
- / Higher capacities and heads upon request

### Standard materials:

- / For hot concentrated sulphuric acid : 96 to 99%, temperature from 80 to 120 °C
- / Pump casing in acid-proof cast iron
- / Special stainless steel for impeller, wear rings and shaft sleeves
- / Sleeve bearings in ferro-silicium or special alloy
- / Shaft made of 20/25/4 stainless steel (U45N) or 316SS, with FEP tube upon request
- / Austenitic stainless steel with 6% silicium

### Industrial applications:

- / H<sub>2</sub>SO<sub>4</sub> production plants : absorption, drying - transfer

