VAS

SPECIAL VERTICAL ACID PUMPS

FOR CLEAR, CORROSIVE LIQUIDS

GENERAL INDUSTRY

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:

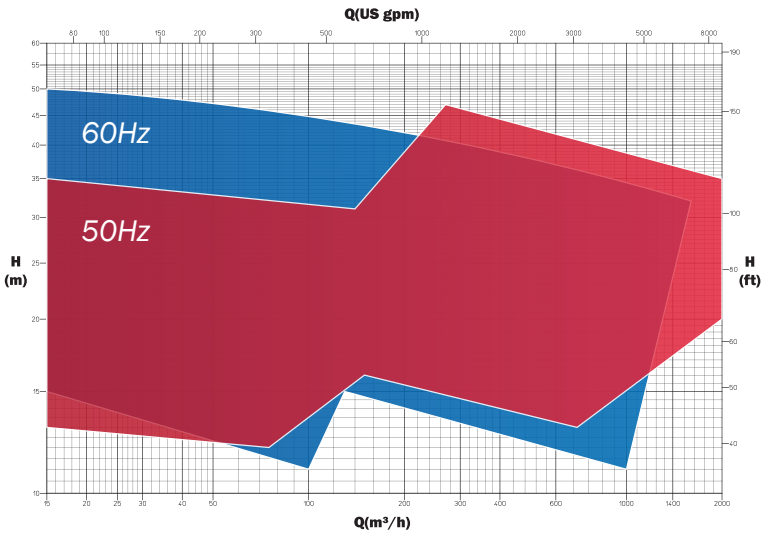
- Capacity : up to 2000 m³/h (8,800 US gpm)
- Total head : up to 45 m (148 ft)
- Maximum operating pressure : 20 bar (290 PSI)
- Operating temperature range : up to 120°C (up to 250°F)
- Higher capacities and heads upon request

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:

- H2S04 production plants : absorption, drying - transfer



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