

# LONG SHAFT, VERTICAL SUMP PUMPS

For contaminated, toxic, corrosive, liquids

# V

## Design :

- / Designed to accept all types of hydraulics: semi-open, open or torque flow impellers: suitable for all kinds of liquids. (pumps type : VL / VLC / VM)
- / Pump length to 16m (52ft) (higher sizes upon request)
- / Sealing options :
  - for contaminated liquids: Shaft is sealed-off by single or double mechanical seal
  - for clear liquids : without sealing systems
- / Shaft guided by column bearings  
Lubrication options :
  - by the pumped fluid
  - external flush options (with water or compatible fluids)
  - grease lubricated rolling bearing (<50 °C) or oil lubricated bearing (>50 °C)
  - discharge recirculation via filters or cyclone separators to lubricate line bearing(s)
- / Discharge separate from the shaftline.
- / Can be supplied with a V-Belt drive
- / Optional basket strainer



## Performances :

- / Capacity : up to 3300 m<sup>3</sup>/h (14.500 US gpm)
- / Total head : up to 150 m (500 ft)
- / Maximum operating pressure : 20 bar (290 PSI)
- / Operating temperature range : up to 120 °C (up to 248 °F)
- / Higher capacities and heads upon request

## Standard materials :

- / Grey cast iron, hard duplex iron, chromium iron.
- / Austenitic or duplex stainless steel of all grades.
- / All materials used for horizontal design.
- / Special alloys available upon request.

## Industrial applications :

- / Fertilizer plants
- / Iron and steel industry
- / Chemical industry
- / Petrochemical industry
- / Oil and Gas
- / Hydrocarbon processing
- / Various industrial applications

