

# VE-VEC

API 610 - VS1 upon request

## VERTICAL PUMP WITH SUBMERGED CASING

FOR CLEAR, TOXIC, CORROSIVE, FLAMMABLE LIQUIDS

### Design:

- / Single or multi-stage with closed impeller(s), stages bolted together
- / Keyed impeller(s)
- / Side discharge through sump head
- / Thrust bearing oil or grease-lubricated
- / Column bearings lubricated by the pumped liquid or lubrication by external liquid optional
- / Bearing material dependent on liquid pumped : PEEK, PTFE, carbon, silicon carbide, stellite, nitronic...
- / Absence of radial loads on column bearings because of the concentric discharge
- / Excellent efficiency
- / Shaft sealing by packing rings or by standard single, double or tandem-mounted mechanical seal
- / Maximum length 16m
- / Foundation ring optional
- / Shaft sheathing possible
- / Fitting of a suction inducer possible (low NPSH)



### Performances:

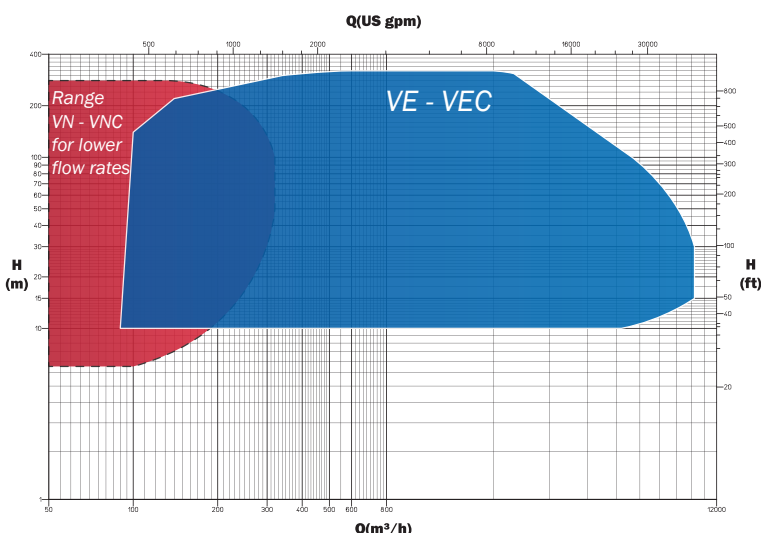
- / Flow : up to 10000 m<sup>3</sup>/h (44,030 US gpm)
- / Total head : up to 350 m (1,150 ft)
- / Maximum operating pressure : 50 bar (72 PSI)
- / Temperature operating range : from -160 to 600 °C (-256 to 1112 °F)
- / Maximum speed : 3,600 rpm at 60 Hz
- / Higher capacities and heads upon request

### Standard materials:

- / Materials per API standard : I1, S6, C6, A8, D1, D2.
- / Other materials available upon request

### Industrial applications:

- / Water distribution
- / Chemicals
- / Petrochemicals
- / Mining
- / Offshore industries
- / Electricity generation
- / Sea Water desalination
- / Pump for general applications : cooling, circulation, etc...



API