

### SPECIALTY PUMPS

We Solve Pumping Problems, also the most difficult ones, Designing and Building for you the most Reliable, Efficient and Competitive Pumping Solutions.

**Contact us for your Pumping Problems !**

Special sealing arrangements with superior quality to suit your specific pumping requirements and made to custom's design to suit all fluids, pressures and temperatures.



STAINLESS STEEL PRESSING



BRONZE CASTING



STAINLESS STEEL CASTING

#### SURFACE CENTRIFUGAL ELECTRIC PUMPS

On demand stainless steel, bronze, brass and thermoplastics executions.

- with **Variable Speed Control** with Inverters, (frequency control with modulation), for control and protection of the system, for low power consumption and energy saving according to EU energy saving rating recommendations Energy Standards Classes (to meet Kyoto Protocol recommendations), and for durability.
- built with materials following EU Directive 98/83/CE referring to waters for human consumption.
- with **Flame-proof ATEX**  following Directive 94/9/EC for equipment intended for use in potentially explosive atmospheres Eexd-IIB-T3-II-2-G and Low voltage versions for use in installations with safety rules against electrocution.
- with pump assembly and motor made to customers' requirements.

#### INVERTER BOOSTER PRESSURIZATION SETS - PACKAGED PRESSURE UNITS AND SYSTEMS

Special executions built with materials, (i.e. all stainless steel) following EU Directive 98/83/CE referring to waters for human consumption.

We build on demand Special Booster Sets for the most efficient and effective handling of Water Resources, for lower Power Consumption and Energy Saving according to Kyoto Protocol also through the use of Alternative Energy Sources. Water Turbines for the production of Green Energy.

#### DRAINAGE AND WASTEWATER SEWAGE NO-CLOG SUBMERSIBLE ELECTRIC PUMPS

On demand stainless steel or bronze executions.

Executions **Flame-proof ATEX**  Directive 94/9/EC for equipment intended for use in potentially explosive atmospheres Eexd-IIB-T3-II-2-G.

**Low Voltage** versions 42V AC following rules CENELEC HD 400.1 for use in installations with safety rules against electrocution.

**Intelligent Control Systems:** Electric, Electronic Controls Panels also with Variable Speed Inverters, Sensors, Alarm Transmitters and Remote Monitoring.

Executions for construction sites able to withstand limited dry running.

We also supply **Sewage Pumping Lifting Stations** for lifting household waster water.

#### SUBMERSIBLE MULTISTAGE BOREHOLE ELECTRIC PUMPS FOR DEEP WELLS

On demand all wetted parts available with grade 304 or 316 stainless steel or bronze.

Executions for superior sand handling able to handle a tolerable quantity of sand.

On demand executions with protector against stray currents.

Also available Line-shaft turbine units.

DC motors versions available.

**Intelligent Control systems:** Electric, Electronic Controls Panels also with Variable Speed Inverters.

All pumps can be supplied with protection and control boxes (panel-starters).

Delivery outlets from 1 to 8".

#### FITTINGS

For all products we supply executions suitable for waters for human consumption following EU Directive 98/83/CE.

Float switches and Level Regulators Mercury-free to RoHS directive wastewater.

Tanks with fixed and replaceable membranes corrosion-free and trouble-free. Also available stainless steel executions and special diaphragm membranes.

#### ELECTRIC MOTORS HIGH EFFICIENCY

Efficiency Levels for Three Phase Motors to IEC 60034-30

IE1 = Standard Efficiency

IE2 = High Efficiency (comparable to USA EPACT 60Hz)

IE3 = Premium Efficiency (comparable to USA "NEMA Premium 60Hz)

**Ecodesign EUP Directive 200532/EC and Commision Regulation EC 640/2009.**

Windings in Class F with copper wiring in class H2 with impregnation in Class H.

Tropicalization on request. Flame-proof versions available – motors for hazardous areas - following Directive 94/9/EC ATEX  for equipment intended for use in potentially explosive atmospheres Eexd (motors compatible with explosive atmosphere that are mixed or inflammable: air, gases and dust). Low Voltage executions for use in installations with safety rules against electrocution.

DC motors and low voltage motors available on demand all throughout the ranges.

AC and DC Brake Motors also available. Asynchronous and Synchronous Generators suitable for Hydropower, Marine and Industrial Applications.

Mains and Inverter supply.

#### Custom Built Special Solutions

Special Executions available with special voltages, special shafts and special flanges.

Important: we also supply motors components like Wound Stators and Rotor Shafts made to custom designs for customers individual requirements.

**We provide full Technical Service, Spare Parts, Assistance and Aftersale Service and Maintenance through our Valco Distributors' Network and our Valco Service Centres.**



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Useful and valuable products for progress, prosperity and peace®

**Head Office, Works, Pump & Motor Test Laboratory Pumps and Electric Motors Research Centre.**

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