

Manufacturing Group

Established in Italy in 1976 Worldwide

Works, Pump and Motor Test Laboratory,
Pumps and Electric Motors Research Centre.

Exclusive High Tech Pumps for Water
and Other Fluids, Motors and Controls,
in Standard or Custom Designs.

VALCO: THE MOST COMPLETE RANGE OF
PUMPS FOR DOMESTIC, AGRICULTURAL,
INDUSTRIAL AND CIVIL USE AND A RELIABLE
SOURCE OF PUMP AND MOTOR SERVICE:
A GLOBAL, INNOVATIVE AND COMPETITIVE
PUMPING AND MOTORS SOLUTION.

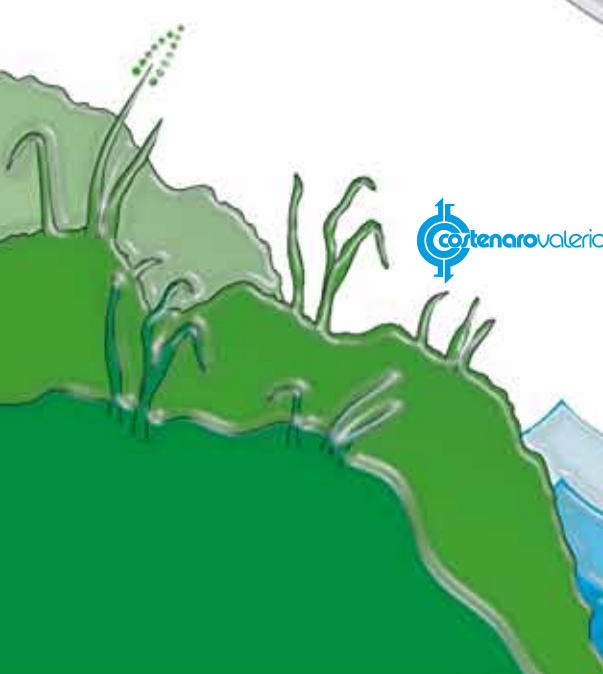
VALCO PRODUCTS PRESENTATION

VALCO® International Trademark



**WATER AND PUMPS
ARE ESSENTIAL FOR LIFE!**


CE MADE IN ITALY



The Company was founded by Valerio Costenaro in 1976 in Marostica in the high technology region of VENETO, (Venice Region, North-east Italy).

The company has flourished by the design and manufacture of an expanding range of pumps, booster sets, motors and associated fittings for their installation, built-to-order and Custom made units with a worldwide distribution.

Main Features and Advantages:

- the most complete range of pumps and motors to cover most of your pumping and motors requirements: we study, design and manufacture the Solutions to your Pumping Problems
- our pumps are made in Italy
- prompt rapid deliveries
- high technology, innovation and constant research: over 36 years longstanding experience with expertise over a century old
- process and production cycles to ISO standards with major International, Regional and National Certifications with Conformity to EU Directives, Regulations and Recommendations
- overdimensioned motors to handle voltage fluctuations; Single phase motors may be provided on request with overload motor protection, on 3 phase version the overload motor protection must be provided by the user and we can offer you our lines of control and protection panels (starters).
- special sealing arrangements with superior quality
- executions in cold pressed 304 or 316 stainless steel and cast iron, stainless steel and bronze castings for corrosion resistance and durability
- 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.
- pumps, motors and associated fittings meeting world standards and regulations and designed and made for high efficiency and lower power consumption to save and optimize water and energy and with a full line of pumps suitable for waters for human consumption
- constant research by our PUMP & MOTOR RESEARCH CENTRE in the development of new and more advanced products. The research and development of pumping sets for customers individual requirements are carried out by our Special Pumps Division: specialty pumps built to customers' requirements.
- highly sophisticated electronic testing facilities – our Pump & Motor Test Laboratory – guarantee top quality: all units are tested before despatch – every process cycle and every finished product are tested against a number of performance parameters before being packed
- high efficiency and consequently saving of energy due to low power consumption
- a global strategy for the promptest delivery of spare parts in a competitive manner
- service covering from enquiry to after-sale all throughout the pump life.

High Value Quality Pumps and Motors.

Our Quality is the result of more than 36 years Experience made of hard daily work, deep problem understanding with solutions implemented, thorough hard conformity tests for every production phase, strict field performance tests, hard durability tests, destructive tests, ISO conformity methods and full adherence to our strict tough Standards according to the innovative worldwide tested and fully reliable Valco Quality Method®.

Service Back up and Spare Parts Supply

Committed to the Customers since 1976 with Full Customer Service and Backup Support and rapid Supply of our Genuine Spares: organized in providing the Spare Parts even after 30 years operation and with a Worldwide Network of Service Centres with Specialists trained to Valco Standards.

To help our Customers in handling with flexibility and fairness any maintenance and repair problems, Spare Parts are supplied to our Customers at special low prices.

Partnership and Co-operation

Our Company Growth from the very beginning into the future is based on building of Partnerships. We believe in Partnerships and Co-operation and this ensures us a stable sound constantly innovative Manufacturing and Distribution basis with highest degree of Reliability, utmost Flexibility and high

and trustworthy Production Capacity with rapid Lead times to mutual Benefit. We control all phases of the Production Cycle: from Raw materials to finished products and after-sale Service with Maintenance, Repair and Supply of our genuine Spare Parts.

We want to help our Customers to be Successful, by providing the Best Products and the Highest Service at Competitive Market Prices.

Water and Energy Resources

We care for the Full Cycle of Water with the aim of Recovering the maximum amount possible through Renewable Energy Sources and VALCO is deeply involved to contribute to a better future and we are active with our following Innovative Units:

- Valco Environmental and Renewable Energy Sources Unit for Solutions developing and using Renewable Energy Sources aware and caring for Environmental Impact and Concern: Solar, Photovoltaic, Natural and Biomass Gases.
- Valco Pumping Water Packages, Watermakers, Clean Water Safety Kits, Field Portable and Movable Units for Water Potabilization and Plants with Emergency Solutions for Water Provision also with Reverse Osmosis Systems, Techniques for Searching Underground Waters, Water Well Drilling, Water Treatment for Spunlace or Hydroentanglement and Geothermal techniques to explore and exploit Geothermal Fluid Resources for Thermal Resorts (Spas) and for Civil, Industrial, Agricultural and Heating. We also provide consultancy, know-how, service and techniques to find water sources®.
- Valco Energy Plants for Energy production with Generating Sets, Alternators, Diesel and Gas Engines also using natural and biomass gases and Solutions for Residential, Industrial, Agricultural, Civil, Emergency and Civil Protection Uses, Solar and Photovoltaic Systems®. Water Turbines for the production of Green Energy. Where there is no electricity we provide Petrol and Diesel Motorpumps, DC Pumps, Generating Sets, Solar and Photovoltaic Systems.
- Valco Air Conditioning and Air Refrigeration Components and Technologies®.
- Valco pumps and motors training school®.

VALCO WATER and ENERGY DIVISION:

For the most efficient sustainable use of water and energy resources®.

Always at your Service with exclusive specialised distribution network supporting the customers requirements.

OUR MANUFACTURING RANGES

- SURFACE CENTRIFUGAL ELECTRIC PUMPS
- BOOSTER PRESSURIZATION SETS – PACKAGED PRESSURE UNITS and SYSTEMS
- DRAINAGE AND WASTEWATER SEWAGE NO-CLOG SUBMERSIBLE ELECTRIC PUMPS
- SUBMERSIBLE MULTISTAGE BOREHOLE ELECTRIC PUMPS FOR DEEP WELLS
- FITTINGS a complete line of Fittings for Pumps and Pumping Systems
- COMPONENTS and RAW MATERIALS for PUMPS and MOTORS
- ELECTRIC MOTORS

OUR CUSTOMERS

- **Pumps specialized importers** • **Pumps distributors and Wholesalers**
- **Pumps dealers** • **Well Drillers** • **Pumps installers (plumbers)**
- **OEM Industrial Pumps End Users** • **Industrial Pumps Users**
- **Pumps Users**

We design and manufacture the most efficient, innovative and competitive pumping and motors solutions for you with flexibility and expertise, meeting your specific requirements with innovation and with trustworthy Care and Service from enquiry to installation all throughout the pump and motor life.

SURFACE CENTRIFUGAL ELECTRIC PUMPS

Conva™ • Deep well packer



Single Pipe 2" and Twin Pipe 4" Deep Well Ejector Assembly

Jetdom™ • Shallow well jet self priming



STAINLESS STEEL



Stainless Steel



Nordica™ • Multistage vertical

Irrigua™-1 • Centrifugal single stage



Stainless Steel Version



Cast Iron also bronze impeller

Bare shaft DIN-EN Standard Version



STAINLESS STEEL

In-Line Stainless Steel 304 or 316 Construction

Casalinga™ • Turbine peripheral booster



end suction

side suction

end suction

BRONZE

Bronze Casting end suction

Irrigua™-2 • Centrifugal two-stage for high heads



Irrigua™-3 • Centrifugal single stage for high capacities and low pressure irrigation



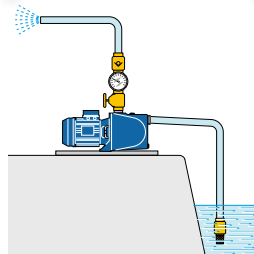
Buta™ • Multistage horizontal



STAINLESS STEEL

Stainless Steel 304 or 316 Construction

Installation



Valco-Lem™ • Self priming contractors trash



3" Flanged

TLC™-UTC™-LSC™ • Circulating pumps



TLC™, UTC™ and LSC™ - Circulating Pumps also with Variable Speed Control compliant with EuP directive and meeting the provisions of Regulation No 641/2009 of European Commission requiring a drastic reduction of energy consumption of circulators as from January 1st, 2013. Savings up to 80% less than traditional circulating pumps.

Pump construction

Horizontal and vertical, close-coupled, single and multistage, end suction, split case, in cast iron, stainless steel, brass, bronze and thermoplastics.

Applications

Drinking potable water supply, domestic, civil, community and district water boosters, irrigation, heating, air conditioning, firefighting, sprinklers, food processing, industry, chemical, water treatment, sea water pumping.

Innovations and Specialties

- 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 Exd-IB-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.

Range of Performance:

- Capacity (flow rate) up to 240 m³/h
- Head up to 260 m
- Powers: 0,37 ÷ 75 kW

EFFICIENCY LEVELS FOR THREE PHASE MOTORS to IEC 60034-30 when applicable or required:

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 Commission Regulation EC 640/2009.

PUMP RANGES

- **Conva™** - Deep Well Jet Self Priming suitable for wells with low capacity.
- **Jetdom™** - Shallow Well Jet Self Priming.
- **Irrigua™** - Centrifugal Single and Two-Stage and to DIN-EN 733-DIN 24255 flanged DIN2533 (of back pull-out design for quick and simple dismantling and reassembling for ease of Maintenance), also Bare shaft versions and Split Case.
- **Casalinga™** - Peripheral Turbine with multivane impeller generating high lifts with a small power consumption.
- **Casaself™** - Self Priming Turbine Peripheral Electric Pumps.
- **Nordica™ & Buta™** - Multistage horizontal and vertical all stainless steel, high heads, silent operation.
- **Valco-Lem™** - Self priming contractors' trash pumps in cast iron, bronze and stainless steel castings.
- **TLC™, UTC™ and LSC™** - Circulating Pumps also with Variable Speed Control compliant with EuP directive and meeting the provisions of Regulation No 641/2009 of European Commission requiring a drastic reduction of energy consumption of circulators as from January 1st, 2013. Savings up to 80% less than traditional circulating pumps.

Prej • predisposed sub-assembly with pump type 148J



1 pump type 139J, 8 litre tank

Awssj-pt • controlled by pressure switch and with membrane tank



1 pump type 148J, 24 litre tank



1 pump type 148J-SS, 24 litre tank with fixed membrane



1 pump type 148J with VALCOTANKONTROL (Electronic Pressure Control System) and 19 litre tank

Awssj-2spt • with 2 pumps and controlled by electric panel starter with pressure switch and with 2 units of 19 litre tank



Awssn-2spt • with 2 pumps and controlled by electric panel starter with pressure switch and with 2 units of 19 litre tanks with special execution for water suitable for human consumption following EU directive 98/83/CE



Awssnb-2sp • with 2 pumps and controlled by electric panel starter with pressure switch



KIT-A2P • Stainless Steel Kit for easy and rapid assembly of 2 or more Pumps Booster Pressurization Set



Awssj-2tch • with 2 pumps and controlled by 1 VALCO TC-Drive twin-electronic pump controller and with special execution for water suitable for human consumption following EU directive 98/83/CE



Awssjn-2vh • with 2 pumps and controlled by 2 VALCO V-Drive variable speed inverters and with special execution for water suitable for human consumption following EU directive 98/83/CE



Booster construction

Made of 1, 2 or more service electric pumps also version with Jockey Pump, (centrifugal, jet, multistage horizontal and vertical), with controls either electric, electronic or with variable speed inverter (with frequency control with modulation: to make an "Intelligent Pump") with high efficiency and lower power consumption and energy saving to meet EU Classes recommendations and according to Kyoto Protocol, with a wide range of settings, protections also with remote control.

Applications

Drinking Potable water applications. Raising water for general use from varied sources: residential, civil, agricultural and industrial uses; providing sufficient water delivery to meet users' demand and maintaining a sufficient minimum pressure in the system to ensure that the water reaches all points of demand: it enables the system to constantly adapt to your demands. Ideal to make up for insufficient pressure or shortages of water supply from the public water supplier or for water supply from varied sources (tanks, wells, etc.).

They are widely used also in agricultural and industrial applications where variable capacities at a constant pressure are required.

Innovations and Specialties

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.

Ranges of Performance:

- Capacity (flow rate) up to 400 m³/h
- Head up to 260 m
- Powers from 0.37 ÷ 22 kW

EFFICIENCY LEVELS FOR THREE PHASE MOTORS to IEC 60034-30 when applicable or required:

- 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 Commission Regulation EC 640/2009.

Sets Controlled by:

- Electric Panel Starter and Pressure Switch with Tank and 1 - 2 or more Pumps
- TC Drive Twin-Electronic Pump Controller for 1 or 2 Pumps
- Variable Speed Inverter V or T Drive with 1 - 2 or more Pumps

SUBMERSIBLE MULTISTAGE BOREHOLE ELECTRIC PUMPS FOR DEEP WELLS

from 3 to 14-inch wells, to NEMA standard and complete with electric motors.

3-inch well
also with Inverter High Speed

max m³/h: 2.7
max Hm: 128

4-inch well

max m³/h: 24
max Hm: 338

Regenerative

STAINLESS STEEL

Stainless Steel version

Floating Sand Resistant: reduces sand locking

Valve Top Body to Floating version

Impellers, Diffusers and Stages to Floating version

Suction Support Bracket joining pump and motor to Floating version

Packing of VALCO Submersible Borehole Electric Pumps for 4" Wells

6-inch well

max m³/h: 66
max Hm: 698

STAINLESS STEEL

Radial

Stainless Steel version

Mixed-flow

Stainless steel with float switch and cable

for tanks, float switch and cable, Stainless steel Cooled by water flow, silent, multipurpose

8-inch well

max m³/h: 180
max Hm: 536

Mixed-flow

STAINLESS STEEL

Stainless Steel version

Valve Top Body to Mixed-flow version

DWT 8-inch • Deep Well Vertical Shaft Turbine Pumps

max m³/h: 180
max Hm: 27

Deep Well Wet-ends Borehole Vertical Shaft Turbine Pumps

10-inch well

max m³/h: 390
max Hm: 260

Mixed-flow

Protection and control panels (starters) supplied on request

Submersible Motors

4-inch Franklin rewindable

6-inch Franklin Sand Fighter water cooled rewindable

6-inch water cooled rewindable

4-inch rewindable

View of Cast Iron Nickel plated Bracket 6" motor

Termination kit

Pump Components for Submersible Borehole Electric Pumps

Pump Components for Submersible Borehole Electric Pumps 3, 4 and 6" wells

Pump Components for Submersible Borehole Electric Pumps from 6 to 24" wells

Installation

Pipes and Fittings for Submersible Borehole Electric Pumps

Pipes and Fittings for Borehole Wells

V-CASINGS

The most complete range of submersible borehole electric pumps to meet all your borehole pumping applications. Suitable to replace standard surface pumps, carrying the advantages of lesser space needed, less maintenance and complete absence of noise.

Pump and Motor construction

From 3 to 14 inch sizes to Nema standard and complete with 2-pole and 4-pole electric motors, rewindable, 2-wire, 3-wire with control box, oil cooled (prefilled with food grade additives to protect against freeze and rust) and wet type water-cooled executions. Protection IP68. Pump ends made of stainless steel, bronze, brass and cast iron. Impellers in stainless steel, cast iron, brass, bronze, noryl®, polycarbonate and technopolymers and thermoplastics, corrosion and abrasion resistant and non-toxic, radial and mixed-flow, brass multivane turbine. Heavy duty stainless steel or cast iron or bronze casting pump enclosure.

Applications

Suitable to replace standard surface pumps, carrying the advantages of lesser space needed, less maintenance and complete absence of noise. For domestic drinking potable water, industrial and agricultural and geothermal applications, to explore geothermal resources for fluids in spas, industry, agriculture and private, community and district heating and in all cases where it is requested to lift water out from below the ground from aquifers and to push it above with pressure: boreholes, bored wells, riverbanks, in-line pressure boosting, dewatering, sprinkler and drip irrigation, greenhouses and gardening, air conditioning, water supply to offshore oil platforms, booster pumping, fire fighting, fountains and water features, large rural irrigation schemes, turf watering installations and stock watering plants, dewatering of mines and excavations, level control (wellpoint) of groundwater waterbeds, sump drainage, artificial snow, solar power, etc.

Water Well Drilling and Perforations. Techniques for Searching Underground Waters.

We co-operate with Drillers and Well Operators for Well Examination.

Built-in check valve to protect the pump against water hammer.

Floating Version (F) Sand Resistant: reduces sand locking.

Energy efficient hydraulic design for cost-effective operation. Easy to install and dismantle for service.

Innovations and Specialties

- 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".

Energy Saving and Efficiency

We optimize efficiencies for lower power consumption to suit your specific pumping requirements.

Ranges of Performance:

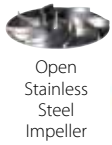
• Capacity (flow rate) up to 1300 m³/h • Head up to 800 m • Powers: 0.37 ÷ 400 kW

• **Vera™** - Submersible Multistage Borehole for deep wells.

DRAINAGE AND WASTEWATER SEWAGE

Drainage Submersible Portable Pumps made in Synthetic corrosion and abrasion-free material

max m³/h: 42
max Hm: 20



Dirty Waters Submersible Portable Pumps made in Synthetic corrosion and abrasion-free material

max m³/h: 42
max Hm: 20



Dirty Waters Submersible Portable Pumps made in Stainless steel

max m³/h: 42
max Hm: 20



Drainage and Sewage Vortex Impeller Submersible Pumps made in cast iron, no-clogging



max m³/h: 36
max Hm: 15



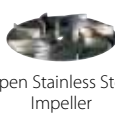
max m³/h: 36
max Hm: 15



max m³/h: 36
max Hm: 15

Drainage Submersible Portable Pumps made in Stainless steel

max m³/h: 24
max Hm: 16,5



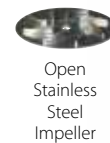
Drainage Submersible Heavy Duty Pumps with open impeller made in Special corrosion-resistant Aluminium Alloy

max m³/h: 66
max Hm: 18



Drainage Submersible Portable Pumps Single and Multistage made in Synthetic corrosion and abrasion-free for Ponds and Fountains

max m³/h: 15
max Hm: 42



Pump construction

Cast iron, Stainless steel, Bronze, no-clog, Portable, synthetic corrosion and abrasion-free material (thermoplastics), Automatic with float switch.

Impellers: Open, vortex, single-channel, double-channel and three-channel and grinder cutter plate made of cast iron, stainless steel, aluminium, abrasion-resistant nitrilic rubber and technopolymers. Pump bodies made in cast iron, stainless steel, aluminium and technopolymers.

Applications

Suitable for domestic, residential, industrial, agricultural and civil drainage and wastewater sewage uses: dewatering; sump drainage, effluent and sewage; ponds, construction, mines, reclamation, swimming pools, basements and flooded areas, stormwaters, irrigation, stock breeding, food beverage, for waste, sewage and washwater for single and several households and public buildings, for building sites also partially dry, for continuous and heavy duties for most types of fluids also with bodies in suspension in water treatment plants, brackish waters, dirty waters, sludge, industrial processes, etc.

Innovations and Specialties

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 wastewater.

Coupling Devices: Foot Pedestals and **Adapters** (outlet bends couplings, inlet bends intake suction curve), Gate Valves and Flange Ball Retaining Valves (Check Non return totally free passage with cover easily removable for plant inspection).

Energy Saving and Efficiency

We optimize efficiencies for lower power consumption to suit your specific pumping requirements.

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

Ranges of Performance:

- Capacity (flow rate) up to 850 m³/h
- Head up to 39 m
- Powers: 0.37 ÷ 33 kW

- Nominal Delivery Diametres up to DN200
- Solids in suspension (free passage) max diametre 108 mm. Non-Clog.

- **Dernajo™** - Drainage Submersible
- **Liqua™** - Sewage Submersible

NO-CLOG SUBMERSIBLE ELECTRIC PUMPS

Sewage Wastewater Submersible Pumps Single, Double and three-channel Impellers heavy duty cast iron, bronze and stainless steel castings, non-clogging

max m³/h: 850
max Hm: 32



Single channel cast iron Impeller

DN 150



max m³/h: 850
max Hm: 32



Double channel cast iron Impeller

DN 80



STAINLESS STEEL



BRONZE



max m³/h: 850
max Hm: 32



Three channel cast iron Impeller

DN 200



Sewage Wastewater Submersible Pumps, Vortex Impellers heavy duty cast iron, bronze and stainless steel castings, non-clogging

max m³/h: 180
max Hm: 40



Vortex Cast iron Impeller

DN 100



max m³/h: 180
max Hm: 40



Vortex Cast iron Impeller

DN 50



max m³/h: 180
max Hm: 40



Vortex Cast iron Impeller

DN 65



max m³/h: 180
max Hm: 40



DN 65

Drainage Submersible heavy duty Dewatering Pumps, open nitrile coated bronze impeller for effluents with some abrasive substances

max m³/h: 66
max Hm: 18



Open bronze Impeller with special antiabrasive nitrile-rubber protection



Cutter Sewage Wastewater Submersible Pumps with open cutting impeller with diffuser and blade device for liquids containing fibres

max m³/h: 24
max Hm: 38



Cast iron Diffuser



Stainless steel AISI 440 C Blade four-knives intake cutting system



Open Cast iron Impeller



Heavy Duty Drainage Submersible Contractors' Pumps, open cast iron impeller, stainless steel housing and 316 stainless steel motor cooling jacket for muddy and sandy waters, cooled by the liquid pumped, suitable to operate in hard conditions also not fully submerged. Delivery outlet up to 6".

max m³/h: 288
max Hm: 60



Open 650 HB Chrome cast iron Impeller



Pumping Lifting Stations, Coupling Devices and Ball Check Valves

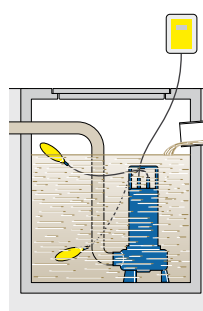


Sewage Pumping Lifting Stations for lifting wastewater



Protections and control panels (starters) supplied on request

Installation scheme



Coupling Devices - Foot Pedestals for Sewage Submersible Pumps also interchangeable to replace major brands



Ball check valves, no clogging for wastewater up to DN600 (24")

CBV

FITTINGS

Controls for Booster Sets and Pumps



V-DRIVE



Variable speed inverters
T-DRIVE



VALCONTROL-1



VALCONTROL-2
with temperature sensor

Pumpcontroller for constant pressure: it eliminates cycling
VALCONTROL

Pumpcontroller
with water
reserve



VALCOTANKCONTROL

Float switches and Level regulators

new!



vertical multiple
function level
regulators for narrow
spaces, for dirty waters
and special fluids, for
tanks and cisterns, for
minimum and wide
variations of levels also
for deep wells

MSL



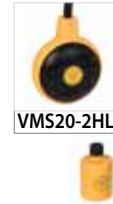
mercury-free to RoHS
directive wastewater
PCMF



free suspension
wastewater
VMS20-P2CAL



VMS-C
Drainage
VMSH-C



VMS20-2HL
two-chamber
VMS20-2H

Starters and panels electromechanical and electronic for protection of 1 or more Pumps, Direct, Star-Delta, Soft and Reactance Start, 1phase and 3phase



with overload
protection



with overload protection



dry running check for borehole pumps



for borehole and submersible pumps



for boosters and drainage pumps



3phase



for wastewater



reactance start



dry running check (Cosφ)



for boosters
and drainage

Tanks with replaceable membrane



SC2



C8



C24-SS

stainless
steel



steel type with
stainless steel flange
corrosion-free

C24-FS



SC24



Spare Butyl Rubber
Membranes



V60



C100



V100

Tanks with fixed membrane corrosion-free and maintenance-free



2-litre
stainless
steel
water
hammer
arrester

F2-SS



CM60



stainless
steel
water
hammer
arrester

ARIES-F016-SS



Inside view
VM



VM60

Accessories for boosters

FCV2	FSG2	3way and 5way Brass Connectors	Pressure Gauges <i>with glycerine</i>	Flexible Hoses steel, stainless steel corrosion-proof
Valco and Square-D Pressure Switches - VPS		3-5W	V50D V50B V50DG V50BG	VFH

Valves - Non Return Check, Foot, Ball and Safety Relief Valves

Ecological, multipurpose to maximize suction	Full flow Stainless steel	Full flow heavy duty brass	Special non return brass	Standard brass	Foot Valve brass	Full Bore brass and Stainless steel with Air inlet for drinking water	full bore brass and stainless steel
ECO-FVAR-25	CVSS	CFV	CSV	CNV	FSV	CVHA	ECO-BV-BVSS

Plugs and electric cable

AC Domestic and Industrial Power Plugs and Electric Cable to world standards
VPC

Ball check valves, no clogging for wastewater up to DN600 (24")	Inclined relief safety and pressure stabilizer	Gate valve	Y" filtre for liquids	Safety relief
CBV	SGV	GV	IVY	VSG

Cable joining kit

Heat Shrink Cable Connection Kit to join the electric cable
V-300JOINT

Single pipe 2" and twin pipe 4" deep well ejector assembly

Single Pipe 2" and Twin Pipe 4" Deep Well Ejector Assembly

In-line Cartridge Water Filters

In-line cartridge water filters
VFC

Quick connections and hoses

Innovative quick hose connection	Hose with steel wire reinforcement
V-QUICKJOINT	V-SPIRAL

Pipes and Fittings for Borehole Wells

Pipes and Fittings for Borehole Wells
V-CASINGS

FITTINGS a complete line of Fittings for Pumps and Pumping Systems to ensure fast installation and complete success.

Level Control - Float Level Switches for drainage pumps applications, Fluid Level Regulators for wastewater pump stations mercury-free (no mercury) in conformity with EU RoHS directive (2002/95/EC). Stainless Steel Versions for high temperatures. Probes and Sensors for Level, Pressure, Temperature and Flow. Also available Flame-proof executions following ATEX Directive 94/9/EC for equipment intended for use in potentially explosive atmospheres.

Pressure and Flow Control - Pressure Switches (Pressostats), Constant Pressure Valcontrols, Electronic Pumpcontrollers and Flow Regulators - it protects the pump from loss of prime and from dry running, eliminating cycling and keeping constant pressure and constant flow. Flow Metering Devices to measure the flow of water or fluid in a circuit. Pressure Gauges (Manometres).

Electric and Electronic Control - Starters, Control Panels and Variable Speed Inverters, (frequency control with modulation), to control, protect and modulate the pumpset (for submersible borehole, drainage and sewage, surface and booster sets: to make an "Intelligent Pump"). Remote Control Devices.

Hoses and Connectors - Flexible Hoses also in stainless steel corrosion-proof. 3way and 5way brass connectors. PVC Steel suction Casings and Pipes with screens, well and raising heads, adapters, closing caps for Borehole and Conva Deep Well Pumps. Fittings for Polyethylene Pipes.

Valves - Non return Check , Foot, Ball, Swing Check Valves, made of brass, bronze, stainless steel, cast iron, ecological, lead-free, multipurpose, free passage full flow to minimize friction losses and to maximize suction performance of pumps, no-clog, best for drinking water also in acetal resin and polypropylene with available sizes from 1/2" to 4". Pressure Reducers and Pressure Stabilizers, Safety Valves, Surge and Pressure Diaphragm Relief Valves to reduce the excess pressure generated to avoid major damages to the equipment -designed to protect systems and persons

from the dangers and damages of over pressure in water and heating pipe systems. Flanged Ball Retaining Valves for sewage wastewater pumps and systems. Special Valves for petrol and chemical Industry, off-shore installations and pipelines. High Pressure Valves, Globe Valves for harsh services, check non return Valves to prevent flow reversal in severe applications to ASME, API, DIN, ISO and other Standards.

Filtres with Cartridges - In-Line Cartridge Water Filters with Cartridges. Impurity collecting Filters, Self-Cleaning Filters.

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

Replaceable Membrane Vessels with Spare Membranes - Replaceable Membrane Vessel Accumulator Draw Off Tanks (diaphragm, bladder and accumulator tanks, reservoirs, deposits, liners, etc.) in coated steel and in stainless steel corrosion-proof and with high quality and long life resistant ecological butyl membrane (also with stainless steel flanges and in all stainless steel execution) suitable for Drinking Water for human consumption conforming to CE 0036 and requirements PED 97/23/CE, for electric pumps and booster sets. Filtration system tank for Reverse Osmosis. Expansion Tanks for sanitary hot water, for water heaters, for Central Heating and Solar Energy Systems. Vessels for Boilers, Heat Exchangers. Aries Stainless Steel Tanks to act as Water Hammer arrestors- Backflow Preventors and Back Flow Prevention Devices.

Components and Parts for HVAC (Heating, Ventilation and Air Conditioning) - Manifold Connecting Kit for Heating Circuits. Preassembled Manifolds. Circulation Pump Kit with Thermostatic Valves and By-Pass. Hydronic Solutions.

Joining Kits and Electric Cables - Joining Kit to join the electric cable. Electric supply cable for submersible and surface pumps.

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

ELECTRIC MOTORS - High Efficiency Motors, Energy-saving and with variable Speed controls

Single Phase 2 Pole



F63-2M-33



F80-2M-150

Single Phase 4 Pole



F80-4MC-75

Three Phase 2 Pole



F80-2T-100



F80-2T-150

Three Phase 4 Pole



F71-4T-50



with custom made shaft

F80-4T-75



F90L-4T-200



F132S-4T-750

Innovative and Practicable Faston Type-Connection



Motor with fitted the innovative, practicable and safe faston type-connection on the terminal box

Motor parts - Stators, Rotors and Shaft



Windings and shafts



Wound stator with double or triple enamelling



Stator with winding and Rotor with Shaft



Shaft with Rotor balanced. Also special executions



Stator laminations in iron steel sheets or magnetic silicon sheets (packs) with rotor diecast

V-Diecasting



Flange frame size 80 B14

Flange frame size 100 B5

Flange frame size 100 B5R reduced

Motor Housings and Shields in Aluminium Diecast also made to Custom Designs

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 Commission Regulation EC 640/2009.

Motor construction

Asynchronous Induction Compact AC Power in Standard or Custom Designs. Totally enclosed fan ventilated ranges for industrial applications.

Single phase and three phase.

Standards: Powers and Frames to IEC, IEC 60072-1, IEC 60034-7, IEC 60034-1, IEC 60034-5, EN 50347. With frame sizes from 56 to 400 with construction forms footmounted or flangemounted B3, B5, B14, B3/B5, B3/B14 and special executions on demand. From 2 to 8 pole and with double polarity and also with Variable Speed Inverter control (frequency control with modulation), soft-starters and controls. Stator frames and shields made of die-cast aluminium or cast iron; ball bearings with double screen, silent: they do not require maintenance; steel or stainless steel shafts. Degree of protection IP44, other degrees available on request. Insulation Class F or B and other classes available on request, in an ambient temperature not exceeding 40 DEG.C., and at an altitude not exceeding 1000 metres.

Voltagess


Single Phase: 230 V
 Three Phase: 3 kW and below 230/400 V
 4 kW and above 400/690 V
 Other voltages available on request.

Cycles

50 Hz Standard
 60 Hz available all throughout the range.

Innovations and Specialties

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 Exd (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.

- Frame Sizes from 56 to 500.
- Powers from 0.17 to 560 kW.

COMPONENTS AND RAW MATERIALS FOR PUMPS AND MOTORS - Development, Design and Manufacturing with Innovative Materials to increase Companies Competitiveness.

Castings and Die-castings



Cast Iron, Bronze, Stainless Steel, Aluminium, Stainless Steel Stampings: *Pump Bodies, Brackets, Impellers, Diffusers, Shields, Flanges, , etc.*

Hot-pressing



Hot stamped brass Impellers for Pumps

Pressing and Forming



Cold stamped components through die shearing: stainless steel pump bodies, impellers, diffusers, bushes, metal rings, seeger circlips, bearing springs, spring washers, elevation rings, adjusting rings, etc.

Stainless steel and Turned components



Tie rods, self-locking nuts, plugs, high precision metal parts custom made

Seals and Mechanical seals



Gaskets, Seals, Washers and O-rings

Clamping and Sealing Range, Cable Glands, Cable Glands

- Lower Bellows Silicon Mechanical Seal (Rotating Ring) for pump type L1044VT
- Lower Silicon Mechanical Seal (Fixed Ring) for pump type DCH30T
- Lower Tungsten Carbide Mechanical Seal (Rotating Ring) for pump type DC30PT
- Lower Bellows Silicon Mechanical Seal (Rotating Ring) for pump type D20PAT
- Bellows Carbon Mechanical Seal (Rotating Ring) for pump type D8PAF
- Lower Silicon Mechanical Seal (Fixed Ring) for pump type L1044VT
- Twin Face Bellows Silicon Mechanical Seal (Rotating Ring) for pump type DCH30T
- Lower Tungsten Carbide Mechanical Seal (Fixed Ring) for pump type DC30PT
- Lower Silicon Mechanical Seal (Fixed Ring) for pump type D20PAT
- Alumina Mechanical Seal (Fixed Ring) for pump type D8PAF
- Upper Alumina Mechanical Seal (Fixed Ring) for pump type DCH30T

In standard execution and specially made to custom's design to suit all fluids, pressures and temperatures.

Stampings



Stamped thermoplastics made in noryl and other innovative plastic materials: impellers, diffusers, venturi tubes and nozzles, disc holders, fly-wheels, fans, capacitor covers, terminal block covers, etc. also custom made.

Ball bearings



High performance deep groove rollers ball bearings with shields or seals watertight and prelubricated with grease. Specialties on demand.

Terminal blocks



Innovative faston type terminal block for rapid and easy connection

Capacitors



HFC high quality and wide range

Long Life Capacitors also custom made

Plastics



Noryl and other innovative plastic materials delivered filled or unfilled, for new products developments, with special compounds, nanocomposites, nonwovens, geosynthetics, ecological, non toxic, biodegradable. Special solutions to meet customers' requirements.

Pump components for submersible borehole pumps



From 3 to 14" wells

PUMPS and MOTORS COMPONENTS DIVISION

Design - Design and Manufacturing of Carbide Dies, Moulds and Tools with production of magnetic sheets for electric motors: ability to meet customers' requirements also following their own technical drawings up to the design of dies and the manufacturing of components. Robotics and Automatization through Mechatronics with new materials for sustainable Innovation: a combination of Mechanics, Electronics and Computing which assures Products and Systems much more reliable, efficient, economical and versatile and with Nanotechnologies to design new products manufactured for new functions and better technologies and with Commonization to provide high quality at lower costs.

Casting, Pressing, Stamping, Forming and Forging - Cast iron, Bronze and Stainless Steel Castings. Aluminium Die-Castings, Metal cold Forming, Stamping, Blanking, Shearing and Pressing, Raw and Machined and made to order.

Components for Electric Motors

Windings and Shafts - Also Wound Stators and Rotor Shafts made to custom designs for individual requirements.

Components for Pumps

Turned Components to Custom's design

in Stainless Steel, Brass, Cast Iron, Bronze, Plastics, etc.

A complete range of components and spare parts for pumps and electric motors. We are able to identify and select the most suitable materials and technologies for the Customers' individual requirements. Overhauls and Genuine Spare Parts.

PLASTIC RAW MATERIALS and COMPONENTS - DEVELOPMENT, DESIGN AND MANUFACTURING DIVISION

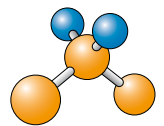
We provide a complete service from Raw Materials to Design and Production. We are able to identify and select the most suitable materials and technologies for the Customers' individual requirements.

Plastic Raw Materials - We supply following First Choice (Premier) Plastic Polymers: ABS, EP, HDPE, LDPE, LLDPE, MF, PA, PBT, PC, PET, PF, PMMA, POM, PP, PS, PSU, , PTFE, PUR, PVA, , PVC, UF, UP, PE, HIPS, PES, PA, PVDC, PU, PEEK, PEI. We supply Plastic reprocessed Granules with same properties as virgin Polymers, Biopolymers, Natural Polymers, Biodegradables, Compounds, Composites, Elastomers (Rubbers): Healthcare, Non-Toxic, Recyclable plastic products thus contributing to the reduction of environmental pollution.

All products can be delivered filled or unfilled.

Innovative Materials for new products development with best application techniques: Nanocomposite Compounds. Nonwovens made of natural and synthetic fibres, Nonwoven Textiles, Geotextiles, Geosynthetics, Spunbonded fabrics for soil stabilization, erosion control, drainage, environmental protection problems and to suit your particular applications.

For all above products we supply executions suitable for potable drinking waters for human consumption to conform with DM174 following EU Directive 98/83/CE.



We care for environmental factors

STANDARDS, EU DIRECTIVES, REGULATIONS AND RECOMMENDATIONS

NATIONAL, REGIONAL AND INTERNATIONAL STANDARDS

Electric Motors to IEC, IEC 60072-1, IEC 60034-7, IEC 60034-1, IEC 60034-5, EN 50347 Standards.


National Standard Organizations: DIN, BSI, ANSI, NIST, JISC, UNI, GOST-R, SAC, SAI, AENOR, SIS, KATS, DGN, PKN, SASO, SABS, TSE, TCVN, etc.

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

Most international standards.

Kindly contact us for confirmation and certifications and approvals details.

EU DIRECTIVES

EU Directive 98/83/CE suitable to waters for human consumption executions, RoHS-2002-2002/95/EC Directive, Low Voltage Directive 2006/95/CE, Machines Directive 98/037/EEC, Electromagnetic Compatibility Directive 89/336/EEC, Executions Flame-proof ATEX  Directive 94/9/EC for equipment intended for use in potentially explosive atmospheres Eexd-IIB-T3-II-2-G.

CERTIFICATIONS and APPROVALS

All major International and National Certifications and Approvals are obtainable on our products through Certifying Bodies and Authorities like UL, NSF, CSA, IMQ, TÜV, ETL, SGS, QSA, ASME, API, WRc, NSF, IAPMO, TTK CE, SEMKO, PSE, GOST-R, UL, CSA, WIMES 3.03 with Certifications and Approvals: BSI, TUV4807, TUV20013, TUV20014, TUV20016, TUV20020, TUVCE0036, Crecep, DVGW, IAPMO, WRAS20014, WRAS20015, WRAS20016, WRAS20018, WRAS20020, DIN 531, DIN 537, DIN 541, DIN P 637, VQM, etc.

Kindly contact us for confirmation and certifications and approvals details.

We provide Testings, Conformity and Inspection Certificates through our Valco modern Testing Laboratory and through major Approved Service and University Testing Laboratories: RTM Breda, CMC, CREI-VEN, NANOFAB, CIVEN, ECSIN, PARCO VEGA; Universities: Università degli Studi of Padua, Università Ca' Foscari of Venice, Università degli Studi of Verona, etc.



EFFICIENCY LEVELS FOR THREE PHASE MOTORS to IEC 60034-30 when applicable or required:

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 Commission Regulation EC 640/2009.

PUMPS AND MOTORS TO LAST AND TROUBLE-FREE

We want to help our Customers to be Successful, by providing the Best Products and the Highest Service at Competitive Market Prices.

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 !

60 Hz available all throughout the range: please apply.

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

VALCO[®]
water is the future[®]

VALCO[®] International trademark.

Useful and valuable products for progress, prosperity and peace[®]

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

VALCO srl

Via dell'Industria, 27-29

I-36063 MAROSTICA (Vicenza)

Veneto, (Venice Region) - EU - Italy

Ph.: +39-0424-77847

Fax: +39-0424-475806


E-Mail:valco@valco-costenaro.com

Http://www.valco.eu

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Ref. VLF-Jan2013 Valco Products Presentation

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