



CE MADE IN ITALY

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

VALCO®  
International trademark



Manufacturing Group established in Italy in 1976 worldwide.  
Works, Pump & 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.

*WATER AND PUMPS ARE ESSENTIAL FOR LIFE!*

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

## 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.

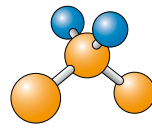
## PLASTIC RAW MATERIALS and COMPONENTS - DEVELOPMENT, DESIGN AND MANUFACTURING DIVISION

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

## 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

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## 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.

## 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.

## Seals and Mechanical seals



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

## 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

## Pump components for submersible borehole pumps



From 3 to 14" wells



# 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 Exd-II-B-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 di Padua, Università Ca' Foscari di Venice, Università degli Studi di Verona, etc.



Trademark **VALCO** is a registered trademark of VALCO srl.

Trademarks *Conva, Jetdom, Irrigua, Casalunga, Vera, Dernajo, Prima, Liqua* are registered trademarks of Valco srl.

Noryl® and General Electric® are registered trademarks and exclusive property of General Electric Company (GE).

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Other company, product, and service names may be trademarks or service marks of others.

*Reduction in speed will result in a fall of performance.*

**DO NOT RUN PUMP DRY!**

*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).*

*Tolerances according to ISO 9906, Annex A.*

*Features subject to change – not contractually valid unless specifically authorized by VALCO.*

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## 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](mailto:valco@valco-costenaro.com)**

**Http://[www.valco.eu](http://www.valco.eu)**