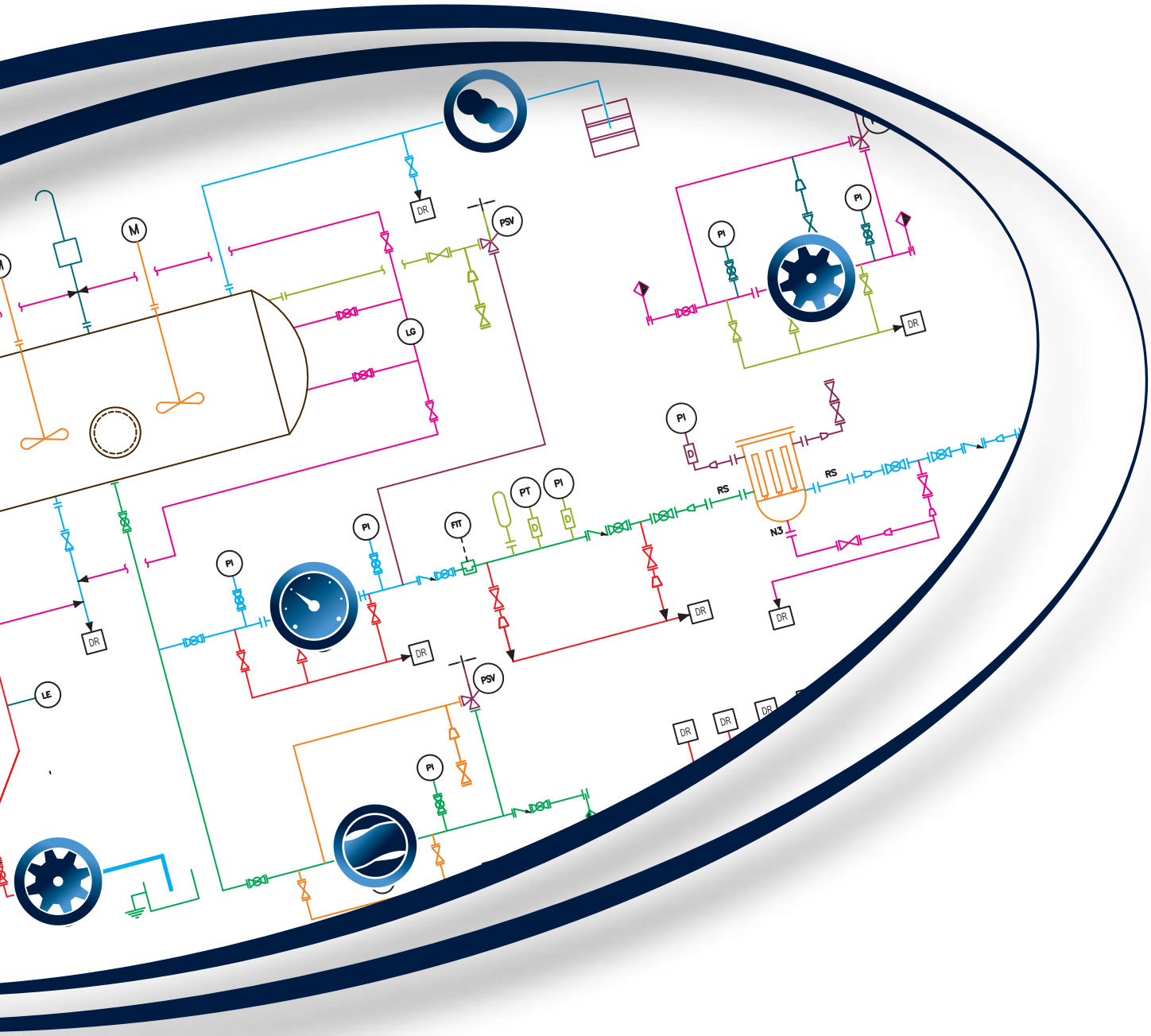
VALISI

A brand of Asco Pompe



Pumps
& Process Instruments

ASCO POMPE Srl, established in 1956, is a leading Italian company in the distribution, production, supply, and integration of fluid handling products and systems. Our product portfolio is capable of meeting demands from most business sectors, such as oil & gas, energy, chemicals, pharmaceutical, food, ceramics,

resins and paints, water treatment, and general industry. We offer our customers a wide range of services, including after-sales, revamping, engineering, design, and customization of pumping solutions. Customer satisfaction is at the basis of ASCO POMPE business philosophy.

DIVISIONS

In order to offer our customers a professional and high-quality service, ASCO POMPE is organized in specialized divisions made up of engineers and industry experts.

PUMPS & FLUID HANDLING

This division is dedicated to volumetric and centrifugal pumps and related products. Our brands are known worldwide for their quality, reliability, innovation, and assistance network.

ENGINEERED SYSTEMS

Our internal engineering office designs integrated fluid handling solutions, such as chemical injection packages, well head control panels, and polyelectrolyte dosing systems,all entirely manufactured in our warehouse.

WATER TECHNOLOGIES

We offerhigh-efficiency products and integrated solutions for the wastewater treatment industry.

CONTROL

Our control division provides process instruments for measuring flow, pressure, level, and temperature, and manufactures a complete range of oscillating piston volumetric flow meters.

SERVICE

We provide after-sales services for any kind of pump, including scheduled maintenance, repairs, and technical consultancy. We also offer on-site maintenance and commissioning activities worldwide, including offshore applications.

APPLICATIONS

INDEX

PUMPS SERIES T-F-N

ATEX certified pumps

FEATURES

Performance:

Two rollers mounted on a rotor compress a thick-walled hose in a patented concentric guide and push on account of the rotation the content of the hose (the pumped liquid) from the suction to the discharge side. Through the subsequent opening of the hose a vacuum on the suction side is created by which a continuous priming results.

Design/ Installation:

Self-Priming, seal-less peristaltic pump. In versions N2 - N4 and T1 – T2 the rotor is supported by oversized ball bearings located within the pump casing; while in versions T3 and N5 – N10 the rotor is supported by the heavy-duty bearings of the flanged drive unit.
Liquids are conveyed within the hose and do not get in contact with any metal part.

Drive Units:

Gear motors or variable speed motors, both TEFC and flame-proof, electronic gear motors, inverters.
Upon request, pneumatic drive units are available.

Applications:

Waste water and water treatment engineering, chemical and petrochemical industries, pulp and paper, textile industries, soap and fats industries, building, ceramics and mining industries, meat and fish processing industries, tanneries, pharmaceutical and cosmetics industries.
Suitable for pumping and dosing low or high viscosity, pasty, pure, neutral, aggressive or abrasive liquids, those containing gases that tend to foam or those containing solids.
They can also be used as a vacuum pump in evaporating plants.

- **Max Capacity: 60 m³/h**
- **Max temperature of the pumped liquid: 100°C (1)**
- **Max discharge pressure: 8 bar**
- **Max achievable suction: 0,8 bar (3)**
- **Max viscosity: 150.000 cps (3)**
- **Max allowable solids content: 60% vol.(2)**
- **Max solids dimension: 60 mm (2)**
- **Max fibers length: 100 mm (2)**

(1) At a room temperature of 20°C. Furthermore, it depends on the pumped fluid, on the hose quality and on the motor construction.
(2) It depends on the pump dimension and on the hose type.
(3) It depends on the pump dimension/execution, on the speed and on the pumped fluid.

Valisi Pumps FPSH series (Heavy duty) have combined the best available materials with smart design solutions in order to maximize running time and minimize maintenance. The shoes mounted at 180°C on a rotating wheel compress successively a reinforced rubber hose that contains a fluid to be pumped. The compression of the hose by rotating shoes creates continuous suction at the inlet of the pump and pushes the fluid to the outlet of the pump.

FPSH – CIP execution

Valisi Pumps has developed a specific and unique wheel to meet the requirements of customers in a food, cosmetic and pharmaceutical industries. The new FPSH CIP pump has a patent pending designed pump-wheel that allows the pressing shoes to retract and not to compress the tube, making the process of cleaning more efficient.
The CIP (Clean in Place) option allows to the user to be able to retract the pressing shoes automatically, by simply reversing the direction of rotation of the pump (1/2 turn), in order to make the cleaning and sterilization operations, without any action on the pump.

FEATURES

- Hose pumps are used for abrasive and dense liquids with particles.
- The seal is not in contact with pumped liquid.
- Seal-less design eliminates leaks, contamination and wear problems associated with difficult to seal products.
- Completely self-priming up to 8-9 meters
- Possibility of dry running without damage. Can be used as dry-running pump. Reversible operation allows pumping in both directions.
- Provide high levels of volumetric accuracy as well for metering applications; the flow rate is proportional to the speed, low and high pressure delivery, as well for high viscosity liquids.
- Low-noise in motion, the rotating parts motion is in the isolated lubricant
- Easy assembly and low maintenance requirements, easy interchangeable hose.
- Hoses are constructed of NR natural rubber, NBR, EPDM, Hypalon and Viton (FKM).
- The hose is constructed of elastomer of wide diameter strengthened with the 6 reinforcement layers (available in NR FDA, NBR FDA, with the certifications EC 1935/2004 and FDA CFR21$177.2600.EPDM).
- Available connections in DN/PN16 - ANSI 150 - DIN 11851 – TRI – CLAMP – SMS etc.
- Standard Monobloc execution, available directly with inverter.

Max flow rates: 150 m³/h

Ø Hose: ¼" ÷ 5"

Max pressure: 15 bar

Hose life: 1000 ÷ 5000 h (effective working hours)

ATEX certified pumps

APPLICATIONS

- Glue and adhesive
- Acids and corrosive liquids
- Printing inks
- Concentrated minerals
- Ceramic powders
- Soaps
- Oxides
- Lime cream
- Coal
- Rubber latex
- Slurries with crystals
- Sludge (water treatment)
- Paper pulp
- Components for abrasive treatment
- Drilling muds
- Asphalt coatings
- Sludge
- Cement grout
- Food industry
- Colors/Paints
- Oil

Valisi V series are Air Operated Double Diaphragm pumps manufactured and designed with a great dedication to quality and reliability. It has been created a line of products with high quality and reliability, rugged construction. Bolted construction provides leak-free fluid handling. Equipped with a unique stall free air valve and five years warranty, Valisi V series have fewer parts and simpler design.

V SERIES
metallic pumps

CE, Atex and EAC certified

FEATURES

Construction materials:

- Aluminum and stainless steel wetted materials
- Diaphragms, ball valves and seats are available in santoprene™, neoprene and ptfe (epdm, buna and viton on request)
- FDA compliant materials on request.

Max flow: 908 l/m

Max pressure: 7 bar

Size: ½" ÷ 3"

V SERIES
non-metallic pumps

CE, Atex and EAC certified

FEATURES

Construction materials:

- Polypropylene and PVDF wetted materials
- Diaphragms, ball valves and seats are available in santoprene™ and ptfe (neoprene, epdm, buna and viton on request)
- FDA compliant materials on request.

Max flow: 583 l/m

Max pressure: 7 bar

Size: ½" ÷ 2"

V666 SERIES
metallic and non-metallic pumps

Valisi V666 series are Air Operated Double Diaphragm pumps with the same performance as ARO® Compact Classic Style model, dimensionally interchangeable, same inlet/outlet, complete parts interchangeability, ready in stock.

FEATURES

Construction materials:

- ½" Polypropylene and 1" Aluminum wetted materials
- Diaphragms, ball valves and seats are available in santoprene™ or ptfe (no options)

Max flow: 133 l/m

Max pressure: 7 bar

Size: ½" plastic - 1" metallic

CE, Atex* certified
(*only 1" metallic)

VM2 SERIES
non-metallic pumps

Valisi VM2 series are Air Operated Double Diaphragm pumps machined from solid PP, PVDF and Ptfe. These pumps are suitable for a wide range of chemicals, aggressive and abrasive liquids. More than 10 years of experience ensure consistent high quality of our product range to meet our customer expectations.

FEATURES

Construction materials:

- Polypropylene, HDPE and Ptfe wetted materials
- Diaphragms, ball valves and seats are available in santoprene™, NBR or Ptfe
- Ceramic air valve
- FDA compliant materials on request.

Max flow: 550 l/m

Max pressure: 7 bar

Size: ½" ÷ 2"

CE, Atex certified

VALISI VD SERIES
Internal gear pumps

FEATURES

- Wide variety with 19 different casing size
- Available in different materials (cast iron, ductile iron, steel or stainless steel)
- Operating at low and medium viscosity
- Self-priming capability up to 950 mBar
- The pump design is suitable for every type of seal (special design, lip seal, packing gland, single mechanical seal, double mechanical seal)

Max capacity: 390 m³/h

Max viscosity: 450.000 cSt

Temperature range: -50°C ÷ +350°C

Max differential pressure: 14 bar

VALISI PM SERIES
External gear pumps

External Gear Pumps are self-priming positive displacement pumps and they have very good vacuum capability. They can be used for low, medium and high viscosity applications with adjustable clearances. They require less parts, in order to compact design and save space. They are bi-directional with suitable seal. Application variety with helical and spur gear options.

Max capacity: 50 m3/h

Max viscosity: 450.000 cSt

Temperature range: -30°C ÷ +250°C

Max differential pressure: 10 bar

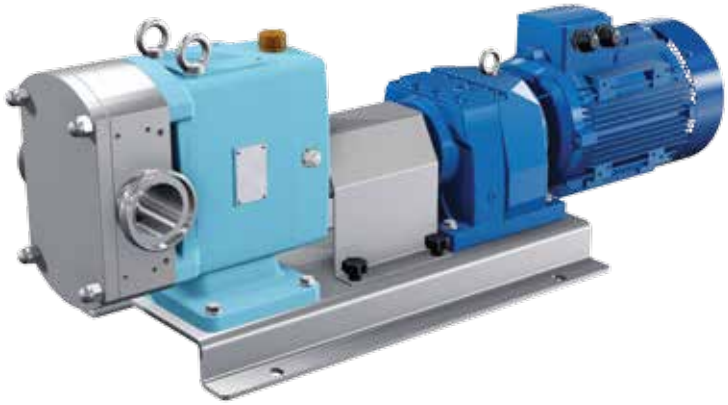
VALISI VL SERIES

VALISI VL series hygienic lobe pumps have been specifically designed to make dismantling **quicker** and **easier**, whether for inspection, cleaning or maintenance. The seals in front position are in direct contact with process and CIP fluids, granting **superior cleanliness**, increased **seal life** and **minimum seal flaking**; also, since the seals are located directly behind the rotors, there are no stagnation areas.

Stainless steel VL series pumps suit all hygienic applications in the **food, beverage, and pharmaceutical industries.**

Downtime reduction is granted by the unique front-loading design, which makes for **faster maintenance** and **easy cleaning**; the pump can be opened by the front cover and rotors and seals can be replaced without disconnecting the pump from the piping.

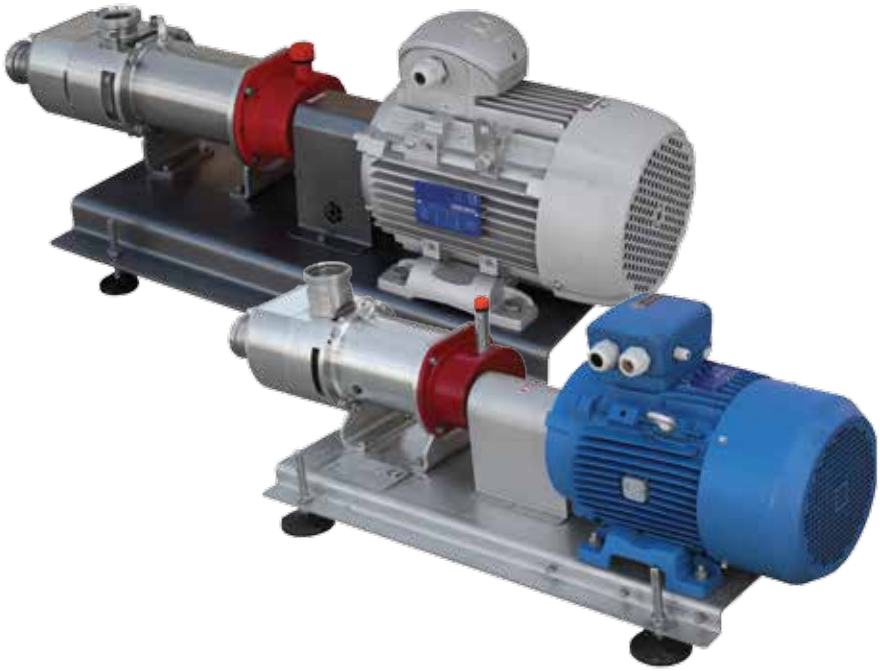
- **Max Capacity: 40 m³/h**
- **Max Viscosity: 250.000 cSt**
- **Max Temperature: 120 °C**
- **Max Pressure: 12 Bar**



TWIN SCREW PUMPS

MoveTwin sanitary pumps are ideal for **food and pharmaceutical products**. These **clean-design** twin screw pumps consist of two screws with intersecting threads; their simultaneous rotation creates a series of chambers where the process fluid is conveyed from suction to the discharge line. **Timing gears** prevent contact between the screws granting **durability**, and the screws are machined with **tight tolerances** to avoid slip. Pumps are suitable for CIP.

- **Max capacity: 65 m³/h**
- **Max pressure: 25 Bar**
- **Temperature range: -10°C ÷ +140°C**
- **Max solids dimensions: 40 mm**



VALISI VD-EM SERIES

Valisi VD-EM series are Solenoid Diaphragm pumps manufactured for heavy duty application with high flexibility of control. The special semi-rigid diaphragm in PTFE guarantees a perfect seal against the infiltration of the liquid inside the electrical part. Liquid end in PVDF and ball valves in ceramic can resist at a wide range of chemical products, even acids. Different possibility of control are supplied to satisfy every application.

Max flow: 15 l/h

Max pressure: 10 bar

MR

Manual Regulation from 0 to100% by potentiometer with two rapid selection 20% and 100% of flow. Led indicator of status.

MD

Manual Regulation from 0 to100% by keyboard. Input for level switch. Led indicator of status.

Q

Manual regulation by keyboard or external pulse signal. Integrated control pulse division/multiplication. Input for level switch, output alarm for high quantity of pulse. Led indicator of status.

mA

Manual regulation by keyboard or 4-20mA external signal. Input for level switch. Led indicator of status.

PRC

Micro-controlled for pH or ORP (redox). Measuring range pH 0-14, ORP -1400mV + 1400mV. Input for level switch. Output 4-20mA and alarm signal.

MF

All possibility type of regulation: Manual, analogic signal 4-20mA, digital pulse signal or with timer. Digital display for all information of status. Input for level switch and flow sensor. Output for alarm signal.

VALISI VD-EMP SERIES

Valisi VD-EMP series are Piston or Diaphragm pumps and are manufactured with materials that can resist most chemicals products, even acids. They are designed for all sorts of processes where it is necessary to dose a product into a hydraulic network. The special diaphragm PTFE with elastomer base reinforced with fiber allow to use this type of pump on pressure up to 15 bar while with ceramic piston version it's possible to reach 20 bar.

FEATURES

Construction materials:

- Liquid end PP – PVDF – SS316
- Balls Valve BOROSILICATE – SS316
- Diaphragm PTFE with Elastomer base reinforced with fiber
- Piston PEUHMW – CERAMIC – SS316
- O-ring VITON - EPDM

Max flow: 1200 l/h

Max Temperature: 50/60 °C

Max Pressure: 20 bar

VALISI VD-ECA SERIES

Valisi VD-ECA series are Diaphragm and Piston dosing pumps with advanced dosing control for an accurate and efficient automatic regulation.

Operating modes:

- Manual
- Analogic Control 4-20mA
- Proportional Pulse control
- Batch Dosing control
- **MODBUS control**

Inputs:

- Analogic input 0/4-20mA
- External Pulse
- Remote on/off
- Two Level sensors (optional)
- Leak detector (optional)
- Flow Detector (optional)
- Pressure sensor (optional)

Output and communications:

- Serial port RS-485 Modbus
- 4-20mA for register and monitoring
- Pulse signal for register, monitoring and 2nd pump control
- Alarm output (relay)
- Level Alarm output (relay)

VALISI progressive cavity pumps are single-screw, self-priming pumps characterized by an extremely simple construction. The flow rate varies proportionally with the pump speed and is independent from the pressure.
The metal rotor and the vulcanized rubber stator are the only parts subject to wear. Many VALISI progressive cavity pumps feature universal joints; single-screw pumps are in fact subject to strong concentrated loads, which may prematurely damage traditional elastic joints.

D & M SERIES
Close-coupled or long-coupled

ATEX certified pumps

L & LM SERIES
95% downtime reduction

ATEX certified pumps

RJ SERIES
For metering applications

ATEX certified pumps

FEATURES

• Body materials: cast iron, stainless steel, duplex stainless steel and polyethylene are available.

• Close-coupled and long-coupled models are available for either vertical and horizontal installation.

• Pumps can be equipped with hopper, feeding screw, and paddle bridge breaker at suction, for highly viscous fluids up to 1.000.000 cP and high solids content.

• Rotating parts materials: carbon steel, AISI 316, AISI 8620, AISI 410, AISI 304, Hastelloy, and DSS are available either with or without hard chromium plating.

• Stator materials available: natural rubber, NBR, EPDM, CSM, PUR, Aflas®, FKM.

• Packing seals, DIN 24960 single or double mechanical seals are available.

Flow rate: 2 l/h ÷ 440 m³/h

Max temperature: 150 °C

Max pressure: 72 bar

Max viscosity: 1.000.000 cSt

APPLICATIONS

- Wastewater, sludge, polyelectrolyte
- Paper coating
- Titanium dioxide
- Calcium carbonate
- Ceramic slips
- Latex
- Adhesives
- Inks
- Mud chemicals
- Paints
- Vinyl and acrylic emulsions
- Cosmetics
- Food industry

ACCESSORIES

- Safety valves
- Measuring instruments for fluid parameters
- Auxiliary seal systems
- Dry-run protection unit (ETI)

ECO, POLY & SUPERPOLY

The ECO, POLY, and SUPERPOLY series comprise close-coupled pumps specifically designed to transfer **water treatment products**, such as sludge (primary, secondary, excess, digested, thickened) and polyelectrolytes. ECO and POLY pumps are based on the well tested D, L, LM, and MC series, for **standardized, simple, competitive solutions with a short delivery time.**

APPLICATIONS

- Wastewater, sludge, polyelectrolyte
- Mud chemicals
- Slaughterhouse wastewater
- Oil, water, emulsions
- Oily slime
- Naval and seaport services
- Bilge water

Max capacity: 60 m³/h

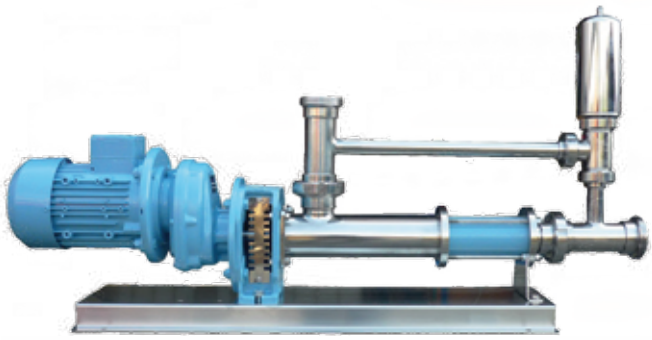
Max pressure: 6 bar

Temperature range: -10 ÷ +80°C

HYGENIC SERIES

VALISI hygienic progressive cavity pumps are designed to avoid any product stagnation, contamination and degradation. A version suitable for **CIP** (clean in place) is available and can be equipped with a bypass.

In case of **highly viscous fluids**, these pumps can work at slow speed and can be equipped with hopper, feeding screw and paddle bridge breaker at suction. Hygienic progressive cavity pumps can also work with **delicate and shear-sensitive fluids**, since no centrifugal action or rapid acceleration of the product is generated.



APPLICATIONS

- Dairy products
- Beverages
- Vegetable oils and fats
- Fruit and vegetables
- Beer and wine
- Pharmaceuticals and cosmetics
- Candy, chocolate, and sugar

Max capacity: 60 m³/h

Max pressure: 24 bar

Temperature range: -10 ÷ +130°C (180°C optional)

Size: 1" ÷ 4"

ASCO POMPE Srl manufactures a complete range of flow meters based on the principle of the oscillating piston that allow precise measurements with high repeatability with most of liquids at low and medium viscosity, up to 3,000 cps. Different construction materials make them suitable for measurement and dosing of all liquid media in the following applications:

• Plants for the production of chemicals, pharmaceutical, cosmetic, glass, cement, resins, fungicides and pesticides, water purification, paints, solvents, urea…

• Food applications: bakery, wines, oils, vinegars, yogurt, milk, soft drinks, beer, fruit juice…

ACM SERIES FLOWMETER

FEATURES

Construction materials:

• SS 316L, PVC, RYTON, PTFE, VITON, EPDM

Process connection:

• Threaded Gas, Threaded DIN 11851, Tri-Clamp, Flanged DIN

Optionals:

• Flow indicator and totalizer, batch controller, analogue output, heating jacket, strainers, ATEX certified.

Max flow: 200 l/m

Size: ½" – 1" – 1½" - 2"

Max pressure: 10 bar

CLAMP-ON ULTRASONIC FLOWMETER

Clamp-on type flowmeters operate on the ultrasonic pulses transit time difference principle. The great advantage is the mechanical installation, because it is not necessary to cut the pipe. The sensors are simply clamped on the outer pipe surface, for this reason the pressure and the liquid aggressiveness to be measured are not a problem for this flowmeter. The system measures in a bidirectional way and is suitable for clean or slightly dirty liquids.

FEATURES

Construction materials pipe:

• All kind of pipe materials even if undercoated externally or internally

Installation:

• Supplied with mounting kit for easy installation

Optionals:

• Heat meter application with temperature sensor PT100

Measuring speed range: ± 12 m/s

Pipe size: DN20 ÷ DN4000

Temperature range: -40°C ÷ +160°C

RPMAG SERIES FLOWMETER

Magnetic flowmeters RPMAG are suitable for all industrial process and deliver very stable and highly accurate flow measurements in conductive liquids. They are used for measuring and totalizing flow in pressurized closed pipe systems and can be installed either with the electronics mounted on the flow sensor or in remote version.

FEATURES

Lining materials:

• Rubber – PTFE

Electrodes material:

• SS316 - Hastelloy C - Titanium – Tantalum – Platinum

Optionals:

• Sensor IP68,
• Modbus, Bluetooth, APP Android, Hart protocol
• Data logger with USB pen drive
• MID certification
• Battery power supply

Max. flow: 40˙000 m³/h

Size: DN10 ÷ DN1200

Max. temperature: 150°C

RSMAG SERIES FLOWMETER

Magnetic flowmeters RSMAG are suitable for applications in food and pharmaceutical industries. DIN or Tri-Clamp ISO 2852 process connection are suitable for applications with milk, beer or other drinks. Manufactured completely in stainless steel with the option for PFA lining makes RSMAG suitable for pharmaceutical applications.

FEATURES

Lining materials:

• PFA – PTFE

Electrodes material:

• SS316 - Hastelloy C - Titanium – Tantalum

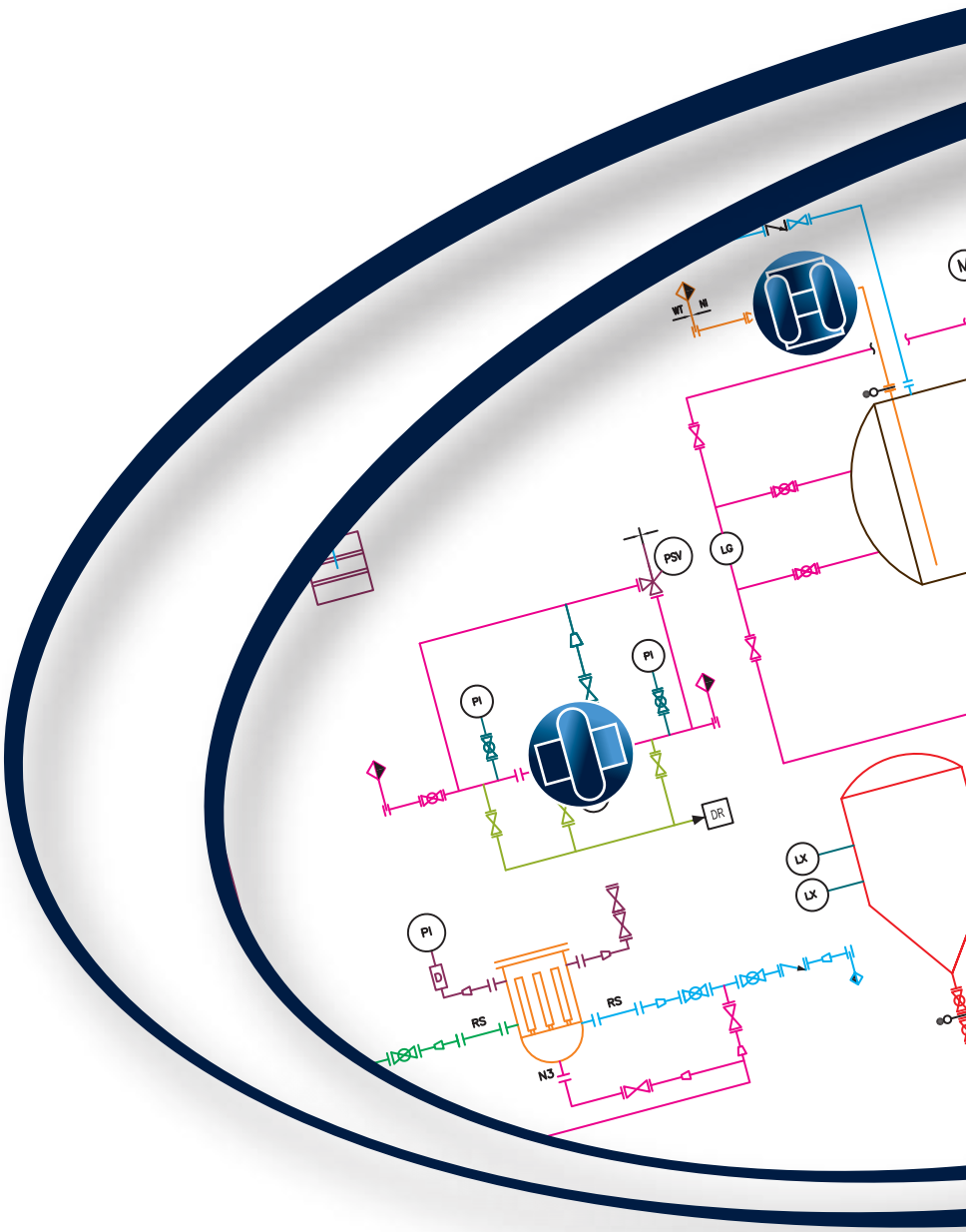
Optionals:

• Sensor IP68,
• Modbus, Bluetooth, Hart protocol
• Data logger with USB pen drive

Max. flow: 600 m³/h

Size: DN10 ÷ DN150

Max. temperature: 180°C



ISO POMPE
Excellence In Fluid Handling

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CERTIFICAZIONE DI SISTEMA QUALITÀ
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