

OVERVIEW



RELIABILITY AND PRECISION IN EVERY DETAIL

Integrated systems and components
for high-performance medical devices





PERFORMANCE, SAFETY, EFFICIENCY.

The medical device sector requires technologies that are increasingly reliable, safe and high performing, with applications ranging from therapy to clinical monitoring. **In these situations, system quality and efficiency are crucial.**

We develop components and integrated systems for managing liquid and gaseous fluids, designed to ensure **precision, energy efficiency, compactness and compatibility with different fluids.**

Using our expertise, we support partners throughout the entire development cycle: **from defining requirements to product realization, ensuring compliance with technical specifications, regulations and project timelines.**





| Class | Maximum number of particles/m ³ | | | FED STD 209E |
|-------|--|--------|--------|--------------|
| | ≥ 0.5 μm | ≥ 1 μm | ≥ 5 μm | |
| ISO 7 | 352,000 | 83,200 | 2,930 | Class 10,000 |

To guarantee the **highest quality**, we manufacture our products in **controlled contamination environments and in ISO 7-certified cleanrooms**, using ultrasonic cleaning and UV inspection technologies.

This allows us to **supply components** suitable for **aggressive fluids or oxidizing gases** such as oxygen.



OUR PRODUCTS

Standard components

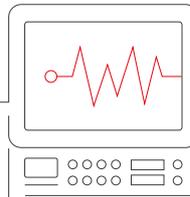
- Proportional flow valves
- Pressure regulators
- Media separated solenoid valves
- Miniaturized solenoid valves



Integrated Solutions and Systems

- Gas mixing solutions
- Multifunctional manifolds
- Devices for dispensing and controlling gases and liquids

OUR APPLICATIONS



MEDICAL DEVICES

We develop components and integrated systems for medical devices used in therapeutic, hospital and home settings.

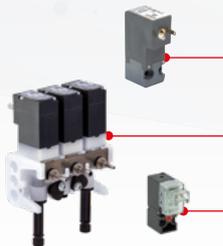
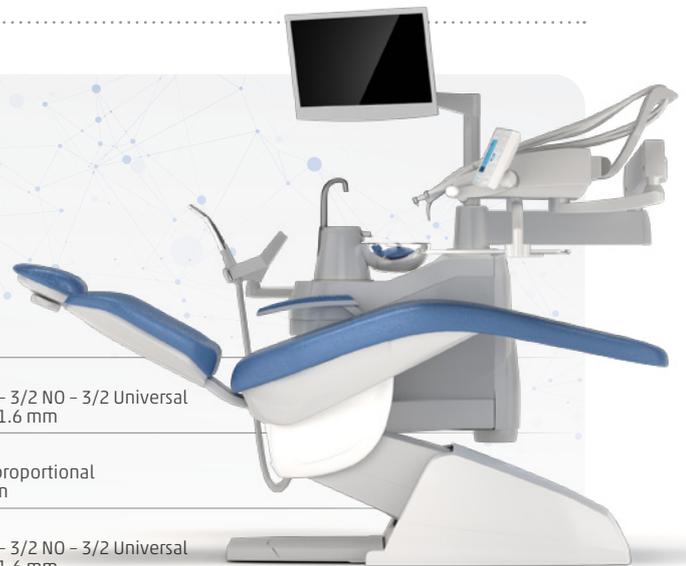
We carefully select materials and optimize design and performance to deliver

compact, reliable solutions fully compliant with industry standards.

- Dental equipment*
- Vacuum therapy*
- Anesthesia*
- Ophthalmology*
- Ventilators*
- Oxygen therapy*
- Incubators*
- Oxygen concentrators*
- Dialysis machines*
- Emergency ventilators*
- Hospital sterilizers*
- Angiographic injectors*

Dental Equipment

Dental equipment uses air and fluids to power tools and devices. We supply components for controlling air and liquid flows and for pressure regulation in dental applications.



| | |
|---|---|
| DIRECT ACTING SOLENOID VALVE | Series PL Function: 2/2 NO – 3/2 NC – 3/2 NO – 3/2 Universal Nominal diameter: 0.8 to 1.6 mm |
| MULTICHANNEL MANIFOLD FOR DENTAL UNITS | Series DB Function: 2/2 NC and 2/2 proportional Nominal diameter: 1.6 mm |
| DIRECT ACTING SOLENOID VALVES | Series KL Function: 2/2 NO – 3/2 NC – 3/2 NO – 3/2 Universal Nominal diameter: 0.8 to 1.6 mm |

Oxygen Concentrators

These devices separate oxygen, nitrogen and other gases from ambient air for therapeutic applications. We offer specific components such as pressure regulators, solenoid valves and proportional valves, compatible with oxygen and designed to ensure safety, compactness and low energy consumption.



| | |
|--|---|
| PRESSURE MICRO-REGULATORS | Series TC Oxygen-compatible in cartridge version Pressure range: 0.5 to 4 bar |
| INTEGRATED SOLUTION | Manifold with high-flow valve Series 8, piloted by high-flow Series PL or Series KL valves |
| DIRECT ACTING PRESSURE-COMPENSATED PROPORTIONAL SOLENOID VALVES | Series CP Nominal diameter: 1 to 4.4 mm Cartridge version |

Ventilators

Ventilators regulate and supply air flow of air and medical gases for patient respiratory support. We provide solenoid valves, regulators and proportional valves that enable the precise control of air, oxygen and gas mixtures.



| | |
|--|---|
| DIRECT ACTING SOLENOID VALVES | Series KL Function: 2/2 NO - 3/2 NC - 3/2 NO - 3/2 Universal Nominal diameter: 0.8 to 1.6 mm |
| DIRECT ACTING PROPORTIONAL VALVES | Series AP Nominal diameter: 0.8 to 1.6 mm Flanged or threaded version |
| PRESSURE MICRO-REGULATORS | Series TC Oxygen-compatible in cartridge version Pressure range: 0.5 to 4 bar |



Anesthesia Devices

These devices accurately dose and mix anesthetic gases and oxygen in complete safety. Our components, such as proportional valves, solenoid valves and regulators, enable effective flow and pressure control, optimizing delivery system performance.



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|--|---|
| DIRECT ACTING SOLENOID VALVE | Series PL Function: 2/2 NO - 3/2 NC 3/2 NO - 3/2 Universal Nominal diameter: 0.8 to 1.6 mm |
| DIRECT ACTING PRESSURE-COMPENSATED PROPORTIONAL SOLENOID VALVES | Series CP Nominal diameter: 1 to 4.4 mm Cartridge version |
| OPEN FRAME PROPORTIONAL REGULATOR | Series OF Closed-loop flow control Nominal diameter: 0.8 to 1.6 mm |



Incubators

We design solenoid valves and regulators for the precise control of air, oxygen and gas mixtures in neonatal incubators.



| | |
|--|---|
| DIRECT ACTING SOLENOID VALVES | Series KL Function: 2/2 NO - 3/2 NC - 3/2 NO - 3/2 Universal Nominal diameter: 0.8 to 1.6 mm |
| PRESSURE MICRO-REGULATORS | Series TC Oxygen-compatible in cartridge version Pressure range: 0.5 to 4 bar |
| DIRECT ACTING PROPORTIONAL VALVES | Series AP Nominal diameter: 0.8 to 1.6 mm Flanged or threaded version |





THERAPEUTIC TREATMENTS

We design components for devices dedicated to physical therapy and care support, with particular **focus on compactness, efficiency and low energy consumption**. Our solutions provide precise control of air and gas flows in equipment for pressotherapy, anti-decubitus mattresses, lymphatic drainage and shock wave therapy, contributing to improved patient comfort, safety and treatment outcomes.

- *Pressotherapy*
- *Anti-decubitus mattresses*
- *Lymphatic drainage*
- *Shock Wave Therapy*

Pressotherapy

Pressotherapy systems regulate air pressure sequentially for vascular and lymphatic treatments. We offer compact solenoid valves and high-performance proportional valves, ideal for optimizing size, energy consumption and control of therapeutic cycles.



| | |
|--|--|
| DIRECT ACTING SOLENOID VALVE | Series PL High Flow Function: 2/2 NO - 3/2 NC 3/2 NO - 3/2 Universal Nominal diameter: 0.8 to 3.5 mm |
| DIRECT ACTING PROPORTIONAL VALVES | Series AP Nominal diameter: 0.8 to 1.6 mm Flanged or threaded version |
| FILTERS AND REGULATORS FOR FLUIDS AND LIQUIDS | Series N Pressure range: 0 to 10 bar With short or long bowl |



Anti-decubitus Mattresses

We supply compact, high-efficiency components, such as proportional valves and solenoid valves that ensure precise inflation control and reliable flow management in anti-decubitus systems.



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|--|---|
| DIRECT ACTING PRESSURE-COMPENSATED PROPORTIONAL SOLENOID VALVES | Series CP Nominal diameter: 1 to 4.4 mm Cartridge version |
| PRESSURE MICRO-REGULATORS | Series TC Oxygen-compatible in cartridge version Pressure range: 0.5 to 4 bar |
| DIRECT ACTING SOLENOID VALVE | Series PL High Flow Function: 2/2 NO - 3/2 NC 3/2 NO - 3/2 Universal Nominal diameter: 0.8 to 3.5 mm |





Automation

A Camozzi Group Company

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