

OVERVIEW



SOLUTIONS FOR THE LIFE SCIENCE SECTOR



CAMOZZI: TOTAL QUALITY OF PRODUCTS AND PROCESSES



Our solutions include technologies and devices used to diagnose, monitor, evaluate and treat patients with a variety of symptoms and conditions. The demands of life science applications can be extremely broad and have vastly different requirements. For example, with analytical and diagnostic devices, it is essential to offer **quality, reliability and safety for the patient and guarantee high performance**, with extreme precision and maximum accuracy of controlled flows.

Our components are designed from the outset to meet industry requirements for **fluid compatibility, energy efficiency, miniaturisation**, and **safety standards** to safeguard patients' health.

Camozzi Automation offers, in addition to standard components with a **modern and functional design**, a wide range of customised solutions for fluid control (both liquids and gases) with the aim to help its partners **improve the time to market as well as the efficiency and reliability of their machines**.

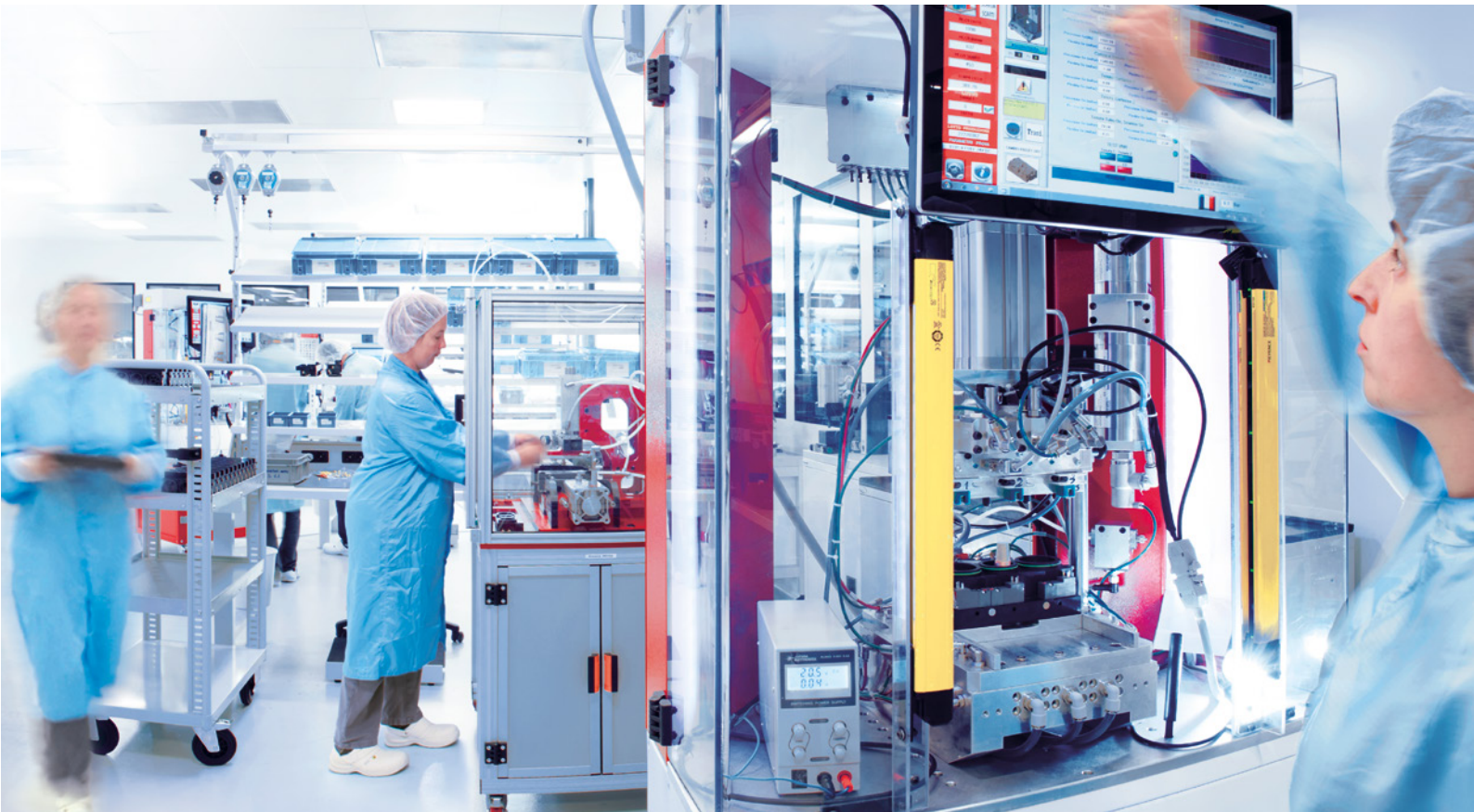
The components and special solutions may include the **engineering of new products** or the designing of **customised manifolds** in which all necessary components are assembled in a single block to create the desired fluid solution. This reduces overall dimensions, dead volumes, losses and assembly and test times. Thanks to our years of experience, we can support our partners from the idea to the implementation of the solution, in compliance with constraints, standards, technical requirements and project times.



To guarantee the **best quality** in all production phases, Camozzi Automation has created controlled atmosphere environments and an **ISO 7 cleanroom** for the assembly of products and solutions that require extreme cleanliness (elimination of all organic and/or inorganic contaminants).

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	Classe 10,000

Ultrasonic cleaning and inspection equipment that makes use of UV blacklight enables us to **supply components** that can be used with **aggressive liquids and oxidising gases** like oxygen.



OUR PRODUCT RANGE

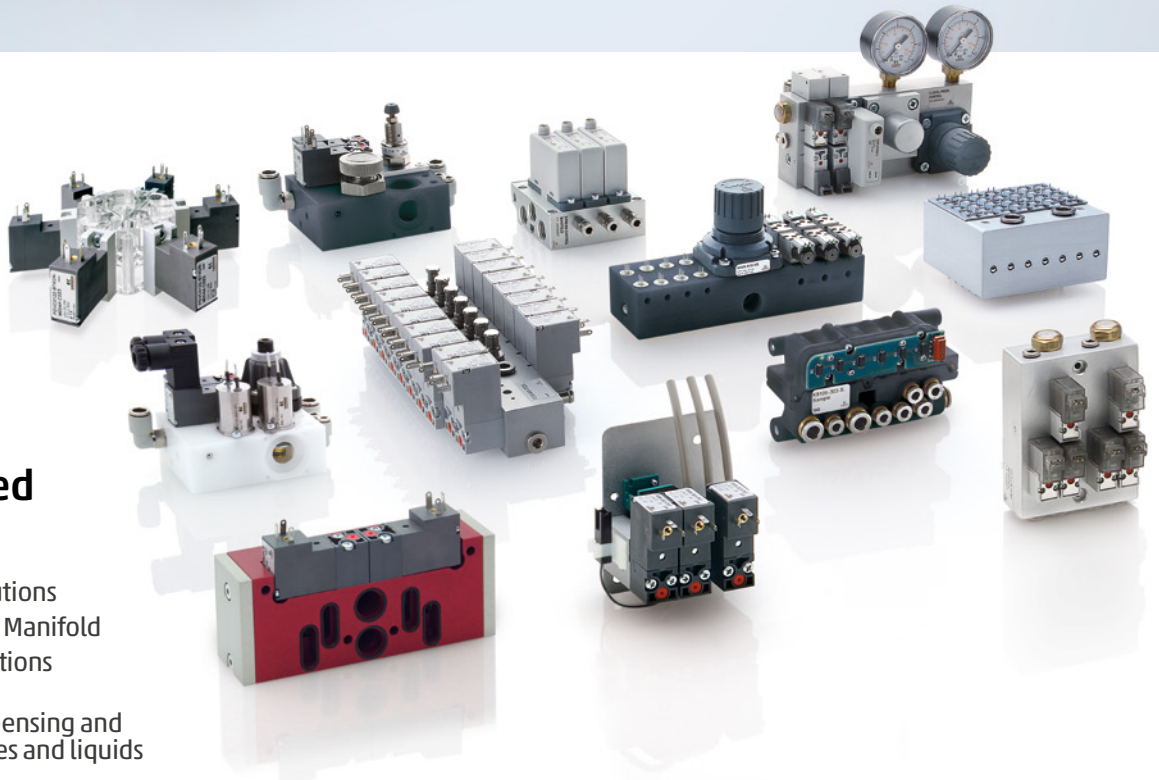
Standard Components

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

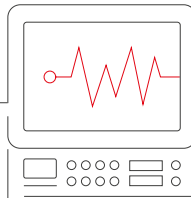


Customised Solutions

- Gas mixing solutions
- Multifunctional Manifold
- Integrated solutions and systems
- Devices for dispensing and controlling gases and liquids



OUR APPLICATIONS



MEDICAL DEVICES

Our laboratories are equipped with state-of-the-art instruments for specific applications or customer-requested tests. We design and manufacture components with a focus on materials, weight and dimensions to meet life science requirements and regulations.

- Dental equipment
- Anaesthesia
- Ventilators
- Incubators
- Dialysis equipment
- Hospital sterilisers
- Vacuum therapy
- Pressotherapy
- Ophthalmology
- Oxygen therapy
- Oxygen concentrators
- Pressure measurement
- Surgery equipment
- Dosing and dispensing
- Drug infusion equipment
- Emergency ventilators
- Oxy & medical gas control
- Angiographic Injector



Dental Equipment

For dental equipment, such as dental chairs and scalers, we produce air and water control components for dental handpiece instruments.



Solenoid valves

Fluid and dental multichannel manifold

Filters and pressure regulators

Media separated solenoid valves

Oxygen Concentrators

For oxygen concentrators, designed to increase oxygen levels for patients, by separating nitrogen and oxygen in the surrounding air, Camozzi offers pressure regulators, valves and solenoid valves, fittings and special solutions.



Filters and pressure regulators

Solenoid valves and valves for fluids

Proportional technology

OX1 Fittings and accessories

Multifunctional manifold



Ventilators

For ventilators, that mechanically breathe for patients who are physically unable to breathe, Camozzi offers solenoid valves, filters, and regulators to control mixing, filtration, pressure regulation, oxygen and airflow.



Solenoid valves and valves for fluids



Filters and pressure regulators



Proportional technology



Anaesthesia Devices

For anaesthesia delivery equipment, that precisely dose and mix gases, Camozzi offers air-oxygen pressure regulators, proportional flow valves and solenoid valves.



Filters and pressure regulators



Proportional technology



Solenoid valves



Open Frame Proportional Controller

Incubators

For neonatal incubators, an instrument to maintain optimal environmental conditions for a newborn baby, Camozzi offers solenoid valves and regulators for mixing gas and adjusting the pressure and flow of air and oxygen.



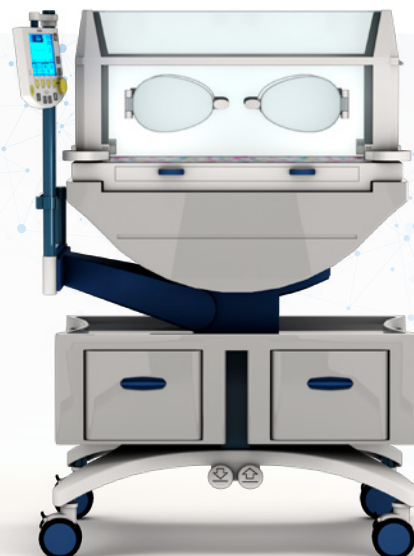
Solenoid valves and valves for fluids



Filters and pressure regulators



Proportional technology



BIOTECHNOLOGIES

The combination of fluid dynamic components and technologically advanced equipment allow the realisation of customised solutions for IVD instrument production.

- Mass Spectrometry
- Gas and Liquid Chromatography
- Biomedical Analysis
- Environmental Analysis
- Molecular Analysis
- Genomics
- Microbiology equipment
- DNA/RNA synthesis
- Haematology
- Clinical chemistry
- Clinical diagnostics
- Electrophoresis
- Elettroforesi
- In vitro diagnostics
- Molecular diagnostics
- Immunology



Chromatography

For chromatography instruments, Camozzi offers solenoid valves and multifunctional manifolds ideal for separating sample constituents and controlling and managing gases and medical liquids.



Media separated solenoid valves



Proportional technology



Multifunctional manifold

Haematology

For haematology instruments, Camozzi's offering includes media separated solenoid valves to protect the controlled fluid from contamination or excessive temperature fluctuations.



Media separated solenoid valves



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Automation

