

NEW SOLUTIONS FOR THE LIFE SCIENCE SECTOR



CAMOZZI AUTOMATION

YOUR EXPERT PARTNER FOR LIFE SCIENCE APPLICATIONS



Medical Devices

ANAESTHESIA VAPORISERS (Inhalers)
INTENSIVE CARE VENTILATORS
NEONATAL VENTILATORS (Incubators)

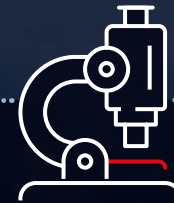
OXYGEN CONCENTRATORS
OXYGEN THERAPY (HFNC/CPAP/ECMO)

DIALYSIS HD (PD/Blood Treatment)

LYMPHATIC DRAINAGE & SHOCKWAVE
PRESSO VACUUM THERAPY

DYNAMIC & ANTI-DECUBITUS BEDS

DENTAL (Chairs & Dental Scalers)



Biotech Analytical & Diagnostics Equipment

DIAGNOSTICS &
BIOINSTRUMENTATION

LABORATORY AUTOMATION

ANALYSERS &
CHROMATOGRAPHY





NEW CAMOZZI SOLUTIONS

Discover our latest components designed to meet the requirements of an ever more demanding market looking for innovation, reliability and higher flexibility.



**Series
KL - KLE**

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Series D

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Series PME

► Page 09



**Series
KDV-LDV**

► Page 06



Series PRE

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**GRIPfit
Series 7000**

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SERIES KL-KLE: HIGH FLOW RATES IN A COMPACT DESIGN

The latest Series KL and KLE **miniaturised 10 mm solenoid valves** have been designed for industrial applications and medical devices that require high flow rates and pressures within compact dimensions. Its **compact design, reduced weight and low energy consumption** make the KL version the ideal solution for applications within confined spaces and limited power supply, such as portable oxygen concentrators or emergency lung ventilators. For applications that demand more robust levels of performance, the KLE version has been designed to control higher pressures and flow rates compared to traditional solenoid valves. The body size and overall dimensions of both versions have been designed to allow **easy integration with manifold systems or subbases** and to be quickly installed on devices and machines. Series KL and KLE are available in different models to satisfy any application across all the main sectors of **industrial automation and life science**.



BENEFITS



Reduced installation times



Easy and flexible to install in the system



Energy efficient



High reliability



Components compliant with medical devices



Compact design and reduced weight for portable devices

MAIN TECHNICAL FEATURES

Size	10 mm
Functions	2/2 NC-NO, 3/2 NC-NO-UNI
Orifice diameter	0.6 ... 1.6 mm

SERIES KDV-LDV: HIGH CHEMICAL RESISTANCE IN CONTACT WITH FLUIDS

The media-separating solenoid valves Series KDV and LDV are designed to **control critical fluids such as aggressive, high-purity or temperature-sensitive fluids**. To prevent the controlled fluid from interacting with the internal mechanical part of the valve, the orifices are opened or closed using a separating diaphragm, driven by an actuator. In addition to protecting the **controlled fluid from contamination or excessive temperature fluctuations**, the diaphragm protects the actuator system from any possible corrosion caused by aggressive fluids. Its compact design, lightweight and low power consumption make the Series KDV (10mm), the ideal solution for applications within confined spaces and limited power supply. For applications that demand more robust levels of performance, the LDV version (15mm) has been designed to **control higher pressures and flow rates compared to traditional solenoid valves**. The media separated solenoid valves Series KDV and LDV are ideal for the Life Science applications that require precision and reliability, such as mass spectrometry, liquid and gas chromatography and molecular analysis.



BENEFITS



Suitable for aggressive, high-purity or temperature-sensitive fluids



Compact design and lightweight for portable devices



Easy and quick assembly



High reliability



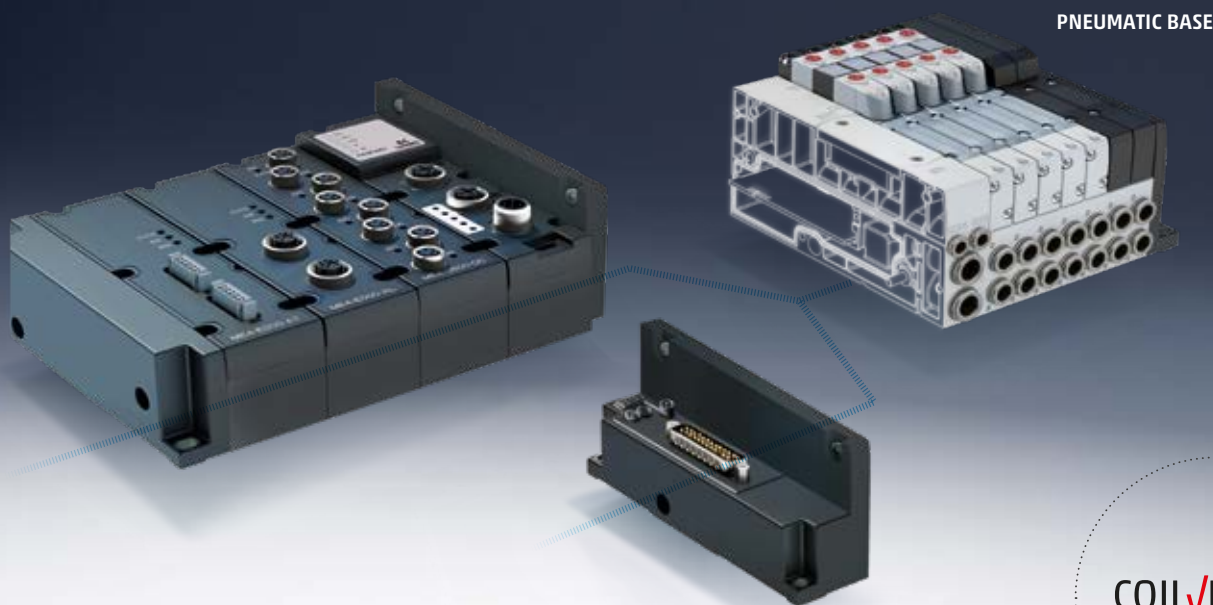
Energy efficient

MAIN TECHNICAL FEATURES

Sizes	10 mm, 15 mm
Functions	2/2 NC-NO, 3/2 NC-NO-UNI
Orifice diameter	0.8 ... 1.6 mm

SERIES D: MODULAR AND FLEXIBLE

Series D is a new valve system that ensures **maximum flexibility and productivity** across many primary industrial automation processes. Single pneumatic and electric subbases plus a **simple valve-connection system** make the Series D valve island the ideal solution for all applications that require quick and **easy installation** of pneumatic functionality. Series D is available in both multipole and in serial communication versions. The Fieldbus module allows control of the valve island using the main fieldbus protocols, making it **easy to integrate pneumatic and electrical functionality** in the most advanced automation systems.



FIELDBUS VERSION

128 Digital I/O and 16 Analog I/O
with up to 128 coils on 64 valve positions

IO-LINK VERSION

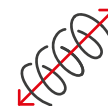
64 coils on 32 valve positions

MULTIPOLE MODULE

Sub-D 25 pins with up to 11 valve positions
Sub-D 44 pins with up to 19 valve positions

COILVISION®
TECHNOLOGY

BENEFITS



Flexibility in connecting
different I/O modules



Integrated diagnostics
and predictivity



Available protocols:
**PROFIBUS-DP, CANopen,
EtherNet/IP, PROFINET,
EtherCAT, IO-Link**



UL Recognized Components
for Canada and
the United States

The Series D valve island is also equipped with **CoilVision® technology** which can monitor and predict the wear and efficiency status of selected parts of the solenoid valves. The gathered data, alarm history and health status are indicated through different combinations of flashing LEDs on the module and can be sent to a PLC or to a wireless IIoT gateway and then on to the Cloud.

SERIES PRE: DIGITAL PRESSURE MANAGEMENT

The Series PRE proportional pressure regulator is equipped with **CoilVision® technology** which constantly **monitors the operation of the solenoids** in the regulator to assess their health status. All data generated by the regulator can be transmitted wirelessly, for logging, aggregation and analysis and can be viewed through the **UVIX software**, downloadable from the Camozzi Catalogue website. The Series PRE is available in two sizes and in different configurations, including **IO-Link connectivity**. As well as the standard options with and without display, there is a version with an integrated exhaust valve, which enables the system to exhaust even without a power supply. A **manifold version** enables the control of several outlets with only one inlet, while a version with an additional external sensor connection enables **pressure control at any point in the system**.

AVAILABLE VERSIONS

- IO-Link version



- Manifold version

- Version with integrated exhaust valve



BENEFITS



Integrated diagnostics and predictivity



Compatible with OXYGEN



Configuration flexibility



UL Recognized Components for Canada and the United States



Easy integration with Series MD FRL Units

MAIN TECHNICAL FEATURES

Flow (Qn)	PRE104 - 1100 NL/min PRE238 - 4600 NL/min
Pneumatic ports	G1/4 - G1/8 - G3/8 - 1/4 NPTF

SERIES PME: COMPACT, LIGHT AND WITHOUT COMPROMISE

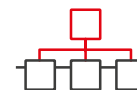
The Series PME proportional pressure regulator is the ideal solution for industrial applications that require **accurate pressure control**. This new pressure regulator offers a high pneumatic performance, despite having its weight and dimensions reduced to a minimum to allow **greater flexibility in its use**. Series PME is available in two sizes and versions. One version has an integrated exhaust valve that allows the system to discharge even in the absence of power. The second is a manifold version, ideal for controlling several outlets with only a single air inlet. A new CANopen serial version is also available. Ideal for controlling multiple controllers on a single fieldbus and for applications that need to operate within a wide supply voltage range (12÷24 V DC).



BENEFITS



Manifold version



CANopen version



Integrated exhaust valve version



Easy integration with Series MD FRL Units



Compact and essential



Configuration App that uses NFC technology

MAIN TECHNICAL FEATURES

Flow (Q_n)	PME104 - 1100 NL/min PME238 - 4600 NL/m
Pneumatic ports	G1/4 - G1/8 - G3/8 - 1/4 NPTF

GRIPfit®: THE LATEST GENERATION OF PUSH-IN FITTINGS

The GRIPfit is the **latest generation of push-in fittings** developed to cover and satisfy the needs of various market applications: from industrial automation to life Science, from water treatment and beverages up to fluidic systems and power packs. Made with high-performance materials, this new range of fittings is equipped with a **flexible stainless steel gripping ring** to facilitate the connection and disconnection of most semi-rigid tubes, limiting the effects of tube marking and **guaranteeing a robust and reliable tightening** on the whole surface of the tube. GripFit is ideal for vacuum and low pressures both in static and dynamic applications, thanks to the **new shaped sealing technology**. The materials used comply with the main standards and directives and have been designed to meet and adapt perfectly to the specific application requirements of each sector. Reliable connection, compact dimensions and easy installation in confined spaces are only some of the features that make this new range of fittings an **innovative solution for many applications**.

**FAST
CONNECTION AND
DISCONNECTION**

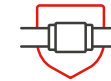
FULL FLOW
Designed for optimal
fluid flow to provide
better efficiency

STAINLESS STEEL
GRIPPING RING

BENEFITS



**Easy to connect
and disconnect**



Optimum sealing



Long life cycle



High flow capacity



**Limited marking
on tubing**



**PA11 BODY
Bio-sourced and reliable**

FIT FOR ANY APPLICATION

Series 7000 - Automation



MAIN TECHNICAL FEATURES

Diameters	4, 6, 8, 10, 12, 16 mm
Body	Technopolymer (PA66) Nickel-plated brass
Button	Technopolymer (PA66)
Gripping ring	Stainless steel (AISI 301)
Seal	NBR
Threads	Nickel-plated brass
Media	Compressed air and vacuum



Optimum sealing



Maximum flow



Compact and lightweight

Series 7000 - Cooling



MAIN TECHNICAL FEATURES

Diameters	6, 8, 10, 12, 16 mm
Body	Technopolymer (PA11) Brass with chemical nickel plating
Button	Technopolymer (PA66)
Gripping ring	Stainless steel (AISI 301)
Seal	EPDM
Threads	Brass with chemical nickel plating
Media	Industrial water and cooling fluids



Resistant to water pressure and erosion



Dimensional stability with water contact



Resistant to corrosion

Series 7000 - Beverage and Water filtration



MAIN TECHNICAL FEATURES

Diameters	4, 6, 8 mm
Body	Technopolymer (PA11) Low lead brass (CW510L)
Button	Technopolymer (PA66)
Gripping ring	Stainless steel (AISI 301)
Seal	EPDM
Threads	Low lead brass (CW510L)
Media	Tap and drinking water, beverages and gases



Bio-sourced materials (Composite)



Low Lead Brass (CW510L)



Easy connection and disconnection

Series 7000 - Medical



MAIN TECHNICAL FEATURES

Diameters	4, 6, 8, 10 mm
Body	Technopolymer (PA11) Brass with chemical nickel plating
Button	Technopolymer (PA66)
Gripping ring	Stainless steel (AISI 301)
Seal	EPDM
Threads	Brass with chemical nickel plating
Media	Oxygen and medical gases



Oxygen compatibility according to ASTM G93/G93M -19



Excellent chemical resistance



Easy connection and disconnection



Automation

A Camozzi Group Company

camozzi.com

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