

SERIES KL - KLE
DIRECTLY OPERATED
SOLENOID VALVES



SERIES KL - KLE HIGH FLOW RATES IN A COMPACT DESIGN



BENEFITS

Reduced installation times



Large range of models (3/2, 2/2, UNI) with compact dimensions

Easy and flexible to install in the system



Electrical connectors with monostable or bistable manual override

Energy efficient



High flow rate compared to its size

Enhanced machine performance and productivity



Extended version for further improved performance

High reliability



More than 90 million cycles

Components compliant with medical devices



OX1 version

Compact design and reduced weight for portable devices



Miniaturisation

The latest Series KL and KLE miniaturised 10mm 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 makes 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.

TECHNOLOGIES



Motion Control



Fluid Control

SECTORS



Industrial automation



Life Science

General data

TECHNICAL FEATURES	
Function	2/2 NC - 3/2 NC - 3/2 NO - 3/2 UNI
Operation	direct acting poppet type
Pneumatic connections	on subbase
Orifice diameter	0.6 ... 1.6 mm
Flow coefficient kv (l/min)	0.12 ... 0.50
Operating pressure	0 ÷ 3 ... 9 bar
Operating temperature	0 ÷ 50 °C
Media	filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas
Response time	ON <10 ms - OFF <10 ms
Manual override	monostable or bistable - only for 3/2 versions
Installation	in any position
MATERIALS IN CONTACT WITH MEDIUM	
Body	PBT
Seals	FKM
Internal parts	stainless steel - brass
ELECTRICAL FEATURES	
Voltage	6 ... 24 V DC - other voltages on demand
Voltage tolerance	±10%
Power consumption	1 W - 1.3/0.3 W - 4/1 W
Duty cycle	ED 100%
Electrical connection	connector mod. 121-8... - M8 connector mod. CS... (the M8 connection of the valve accepts polarity reversal)
Protection class	IP50 with connector 121-8... - IP65 with M8 connector

Contacts

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Automation

