

Series KLE direct acting solenoid valves

2/2-way - Normally Closed (NC) 3/2-way - Normally Closed (NC) and Normally Open (NO) 3/2-way - Universal (UNI)



- » Application sectors:
 Life Science
 - Industrial Automation
- » Compact design
- » High flow in proportion to the size
- » M8 3 pin electric connection available
- » Monostable and bistable manual override

Series KLE are miniaturised solenoid valves with a width of only 10 mm. The body is designed in such a way it can be mounted both on manifold and on subbase and the valve is available in 2-way normally closed and in 3-way normally closed, open and universal version. The use of a longer coil allowed to increase the pressure values the valves can withstand.

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 ÷ 2 … 9 bar
Operating temperature	0 ÷ 50 °C
Media	filtered compressed air, unlubricated, according to ISO 8573-1:2010 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 THE MEDIUM	
Body	PBT
Seals	FKM
Internal parts	stailess steel - brass
ELECTRICAL FEATURES	
Voltage	6 24 V DC - other voltages on demand
•	±10%
Voltage tolerance	
Power consumption	1 W - 1.3/0.3 W - 4/1 W
Duty cycle	
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

Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com CODING EXAMPLE

KLE	0	4	0	-	A6	3	Α	Y	-	1	3	Μ
KLE	SERIES	5										
0	0 = 3/2 A = 3/2 2 = 2/2	DESIGN 2 body - ISO 15 2 body - ISO 15 2 body 2 body - coil ro	218 - coil rotat	ed by 180°								
4	1 = 2/4 4 = 3/4 5 = 3/4	ER OF WAYS - F 2-way NC 2-way NC 2-way NO 2-way NO 2-way UNI	UNCTIONS									
0	PORTS 0 = on	subbase or m	anifold									
A6	A6 = Ø A8 = Ø B1 = Ø B2 = Ø B3 = Ø	E DIAMETER 0.60 mm 0.80 mm 1.10 mm 1.20 mm 1.30 mm 1.60 mm										
3	SEAL M 3 = FK	iaterial M										
Α	BODY A = PB	MATERIAL T										
Y	0 = no	AL OVERRIDE t requested or pnostable stable	not foreseen									
1	1 = 90 B = in-		vith protection n with protecti									
3	1 = 6 V 2 = 12 3 = 24 6 = 6 V 7 = 12	GE - POWER CO / DC - 1 W V DC - 1 W VDC - 1 W /DC - 4/1 W V DC - 4/1 W V DC - 4/1 W	NSUMPTION									
М		i king screws for ing screws for										
		andard	kygen (non vol	atile residual le	ess than 550 mg	/m²)						

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Series KLE solenoid valve - 2/2-way NC - 90° connector



Function

2/2 NC

2/2 NC

2/2 NC

2/2 NC

2/2 NC

2/2 NC

Mod.

KLE210-A83A0-1*M

KLE210-B23A0-1*M

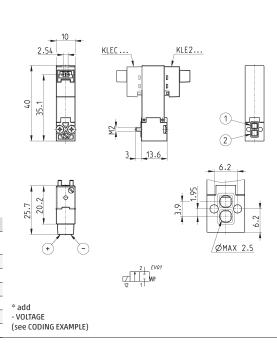
KLE210-B63A0-1*M

KLEC10-A83A0-1*M

KLEC10-B23A0-1*M

KLEC10-B63A0-1*M

Supplied with: 1x interface seal 2x M2x16 screws for mounting on metal



Series KLE solenoid valve - 2/2-way NC - in-line connector

Orifice

Ø(mm)

0.8

1.2

1.6

0.8

1.2

1.6



Supplied with: 1x interface seal 2x M2x16 screws for mounting on metal

kv

(l/min)

0.25

0.40

0.50

0.25

0.40

0.50

Pressure

min ÷ max (bar)

0 ÷ 5

0 ÷ 8

0 ÷ 6

0 ÷ 5

0 ÷ 8

0 ÷ 6

Power

(W)

1

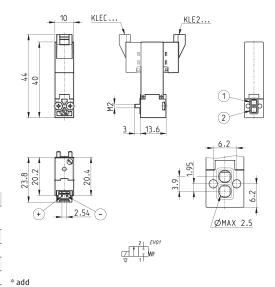
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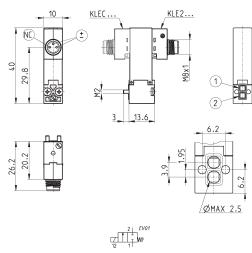
- VOLTAGE (see CODING EXAMPLE)

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)
KLE210-A83A0-B*M	2/2 NC	0.8	0.25	0 ÷ 5	1
KLE210-B23A0-B*M	2/2 NC	1.2	0.40	0 ÷ 8	4/1
KLE210-B63A0-B*M	2/2 NC	1.6	0.50	0 ÷ 6	4/1
KLEC10-A83A0-B*M	2/2 NC	0.8	0.25	0 ÷ 5	1
KLEC10-B23A0-B*M	2/2 NC	1.2	0.40	0 ÷ 8	4/1
KLEC10-B63A0-B*M	2/2 NC	1.6	0.50	0 ÷ 6	4/1

Series KLE solenoid valve - 2/2-way NC - M8 connector



Supplied with: 1x interface seal 2x M2x16 screws for mounting on metal



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)	* add
KLE210-A83A0-M*M	2/2 NC	0.8	0.25	0 ÷ 5	1	- VOLTAGE
KLEC10-A83A0-M*M	2/2 NC	0.8	0.25	0 ÷ 5	1	(see CODING EXAMPLE)

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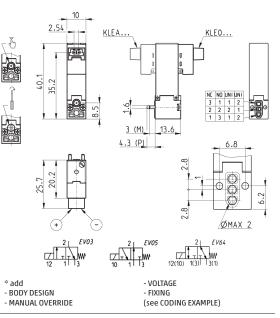
Series KLE solenoid valve - 3/2-way - 90° connector



Supplied with: 1x interface seal 2x M1.6x14.7 screws for mounting on metal or

2x Ø1.6x16 screws for mounting on plastic 3/2 UNI models can work with vacuum. The maximum pressure will be reduced by 1 bar.

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)
KLE*40-A63A*-1**	3/2 NC	0.6	0.12	0 ÷ 9	1
KLE*40-A83A*-1**	3/2 NC	0.8	0.18	0 ÷ 7	1
KLE*40-B13A*-1**	3/2 NC	1.1	0.33	0 ÷ 7	4/1
KLE*40-B33A*-1**	3/2 NC	1.3	0.37	0 ÷ 4	4/1
KLE*50-A63A*-1**	3/2 NO	0.6	0.12	0 ÷ 9	1
KLE*50-A83A*-1**	3/2 NO	0.8	0.18	0 ÷ 7	1
KLE*50-B13A*-1**	3/2 NO	1.0	0.30	0 ÷ 7	4/1
KLE*50-B33A*-1**	3/2 NO	1.3	0.37	0 ÷ 4	4/1
KLE*60-A63A*-1**	3/2 UNI	0.6	0.12	0 ÷ 7 [-1 ÷ 6]	1
KLE*60-A83A*-1**	3/2 UNI	0.8	0.18	0 ÷ 3 [-1 ÷ 2]	1
KLE*60-B13A*-1**	3/2 UNI	1.1	0.30	0 ÷ 4 [-1 ÷ 3]	4/1
KLE*60-B33A*-1**	3/2 UNI	1.3	0.37	0 ÷ 3 [-1 ÷ 2]	4/1



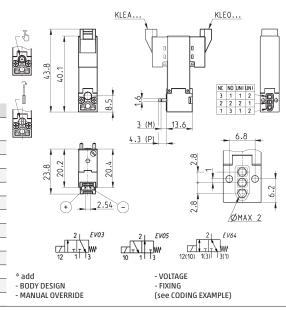
Series KLE solenoid valve - 3/2-way - in-line connector



Supplied with: 1x interface seal 2x M1.6x14.7 screws for mounting on metal or

2x Ø1.6x16 screws for mounting on plastic 3/2 UNI models can work with vacuum. The maximum pressure will be reduced by 1 bar.

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)
KLE*40-A63A*-B**	3/2 NC	0.6	0.12	0 ÷ 9	1
KLE*40-A83A*-B**	3/2 NC	0.8	0.18	0 ÷ 7	1
KLE*40-B13A*-B**	3/2 NC	1.1	0.33	0 ÷ 7	4/1
KLE*40-B33A*-B**	3/2 NC	1.3	0.37	0 ÷ 4	4/1
KLE*50-A63A*-B**	3/2 NO	0.6	0.12	0 ÷ 9	1
KLE*50-A83A*-B**	3/2 NO	0.8	0.18	0 ÷ 7	1
KLE*50-B13A*-B**	3/2 NO	1.0	0.30	0 ÷ 7	4/1
KLE*50-B33A*-B**	3/2 NO	1.3	0.37	0 ÷ 4	4/1
KLE*60-A63A*-B**	3/2 UNI	0.6	0.12	0 ÷ 7 [-1 ÷ 6]	1
KLE*60-A83A*-B**	3/2 UNI	0.8	0.18	0 ÷ 3 [-1 ÷ 2]	1
KLE*60-B13A*-B**	3/2 UNI	1.1	0.30	0 ÷ 4 [-1 ÷ 3]	4/1
KLE*60-B33A*-B**	3/2 UNI	1.3	0.37	0 ÷ 3 [-1 ÷ 2]	4/1



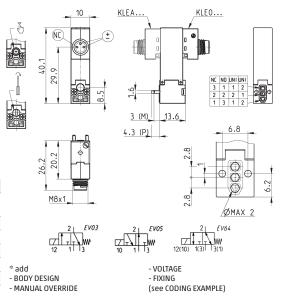
Series KLE solenoid valve - 3/2-way - M8 connector



Supplied with: 1x interface seal 2x M1.6x14.7 screws for mounting on metal or

2x Ø1.6x16 screws for mounting on plastic 3/2 UNI models can work with vacuum. The maximum pressure will be reduced by 1 bar.

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)
KLE*40-A63A*-M**	3/2 NC	0.6	0.12	0 ÷ 9	1
KLE*40-A83A*-M**	3/2 NC	0.8	0.18	0 ÷ 7	1
KLE*50-A63A*-M**	3/2 NO	0.6	0.12	0 ÷ 9	1
KLE*50-A83A*-M**	3/2 NO	0.8	0.18	0 ÷ 7	1
KLE*60-A63A*-M**	3/2 UNI	0.6	0.12	0 ÷ 7 [-1 ÷ 6]	1
KLE*60-A83A*-M**	3/2 UNI	0.8	0.18	0 ÷ 3 [-1 ÷ 2]	1



Automatio



SERIES KLE SOLENOID VALVE

Single sub-base for 2-way solenoid valve size 10 mm

metal (see coding)

Single sub-base suitable for Series KL 2-way solenoid valve

Use solenoid valves with screws for mounting on

Material: anodized aluminium Connections: M5 threads



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M5

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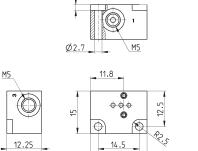
Mod. KL01-02

Single sub-base for 3-way solenoid valve size 10 mm



Single sub-base suitable for Series KN - KL - KLE 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium Connections: M5 threads



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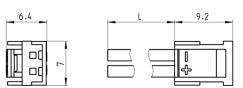




SERIES KLE SOLENOID VALVE

Connector with flying leads Mod. 121-8..





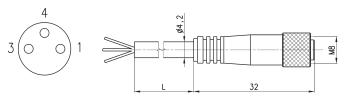
Mod.	description	colour	L = cable length (mm)	cable holding
121-803	crimped cable	black	300	crimping
121-806	crimped cable	black	600	crimping
121-810	crimped cable	black	1000	crimping
121-830	crimped cable	black	3000	crimping

3-wire extension with M8 3-pin female connector



With PU sheathing, non shielded cable. Protection class: IP65

1 BN = Brown 4 BK = Black 3 BU = Blue



Mod.	L = cable length (m)
CS-2	2
CS-5	5
CS-10	10