

## Series K8 directly operated solenoid valves

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

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

3/2-way - Universal (UNI)



The universal (UNI) version enables to mix two different gaseous fluids or to select the path of the gaseous fluid in the pneumatic circuit.

- » Compact design
- » High performances
- » Manifold mounting
- » Long life
- » Version for use with oxygen available

Thanks to their particular design these valves can be used in applications where very compact solutions are required as well as high performances.

Series K8 is used to control actuators or very small devices and it is suitable for portable equipments thanks to low power consumption, reduced weight and dimensions.

#### **GENERAL DATA**

#### TECHNICAL FEATURES

**Function** 2/2 NC - 3/2 NC - 2/2 NO - 3/2 NO - 3/2 UNI **Operation** direct acting poppet type

 Operation
 direct acting poppet typ

 Pneumatic connections
 manifold cartridge

 Nominal diameter
 0.5 - 0.7 mm

 Nominal flow
 see kv

 Flow efficient kv (l/min)
 0.08 - 0.15

 Operation processes
 1 - 2 - 7 box

 Flow efficient kv (l/min)
 0.08 - 0.15

 Operating pressure
 -1 ÷ 3 ... 7 bar

 Operating temperature
 0°C ÷ 50°C

 Modified
 6!throad company

Media filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas

Response time (ISO 12238) ON <10 msec - OFF <10 msec

**Installation** in any position

#### MATERIALS IN CONTACT WITH THE MEDIUM

**Body** brass - stainless steel - PBT technopolymer

Seals FKM Internal parts stainless steel

#### **ELECTRICAL FEATURES**

**Voltage** 24 V DC - 12 V DC - 6 V DC - other voltages on demand

Voltage tolerance ±10% Power consumption 0.6 W Duty cycle ED 100%

**Electrical connection** 2 Pin 0.5 x 0.5 spacing 4 mm

Protection class IPO

Special versions available on demand To order the version for use with oxygen, please add OX1 at the end of the standard code.

**C**⊀ CAMOZZI

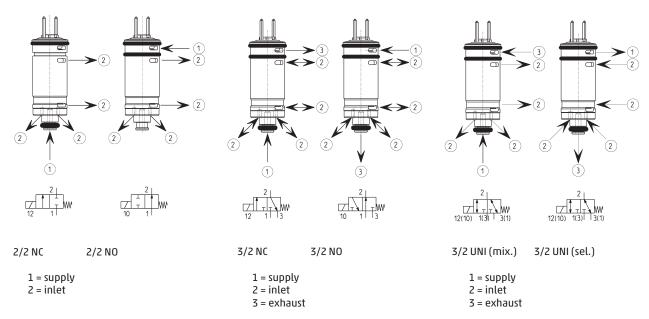


K8	0	00	-	3	0	3	-	K	2	3	
К8	SERIES										
0	BODY DESIGN: 0 = single valve										
00	NUMBER OF POSIT 00 = valve withou										
3	NUMBER OF WAYS - FUNCTIONS:  0 = single base 3 = 3-way NC 4 = 3-way NO 5 = 2-way NC 6 = 2-way NO 7 = 3-way UNI										
0	MATERIALS AND S										
3	NOMINAL DIAMETER:  3 = Ø 0.5 mm (max pressure 7 bar)  5 = Ø 0.7 mm  6 = Ø 0.5 mm (max pressure 4 bar)										
K	MATERIALS: K = stainless steel body, brass cage										
2	ELECTRICAL CONNI 2 = pin interface										
3	VOLTAGE - POWER 1 = 6V DC - 0.6 W 2 = 12V DC - 0.6 W 3 = 24V DC - 0.6 W 5 = 5V DC - 0.6 W	I									

#### **AVAILABLE FUNCTIONS**

OPTIONS:

= standard OX1 = for use with oxygen (non volatile residual less than 550 mg/m²)



The 3/2 UNI version can be used also for 3/2 NC or 3/2 NO functions.



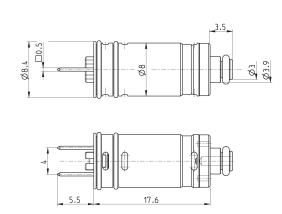
#### 8 mm solenoid valve, 2/2-way NC, NO - 3/2 NC, NO, UNI



#### NOTE TO THE TABLE:

\* to complete the code add VOLTAGE - POWER CONSUMPTION (see the CODING EXAMPLE)





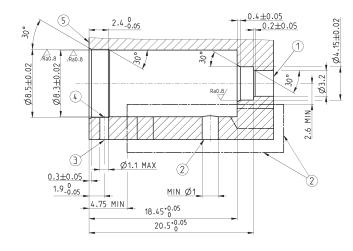
Mod.	Function	Orifice Ø (mm)	kv (l/min) 1 → 2	Qn (Nl/min) 1 → 2	kv (l/min) 2 → 3	Qn (Nl/min) 2 → 3	Min÷max pressure (bar)
K8000-503-K2*	2/2 NC	0.5	0.08	5	-	-	1 ÷ 7
K8000-506-K2*	2/2 NC	0.5	0.08	-	-	-	-1 ÷ 4
K8000-505-K2*	2/2 NC	0.7	0.15	-	-	-	-1 ÷ 3
K8000-603-K2*	2/2 NO	0.6	0.10	6.5	-	-	1 ÷ 7
K8000-303-K2*	3/2 NC	0.5	0.08	5	0.10	6.5	1 ÷ 7
K8000-306-K2*	3/2 NC	0.5	0.08	-	0.10	-	-1 ÷ 4
K8000-305-K2*	3/2 NC	0.7	0.15	-	0.10	-	-1 ÷ 3
K8000-403-K2*	3/2 NO	0.6	0.10	6.5	0.08	5	1 ÷ 7
K8000-405-K2*	3/2 NO	0.6	0.10	6.5	0.15	9.5	1 ÷ 7
K8000-703-K2*	3/2 UNI	0.5	0.08	-	0.10	-	0 ÷ 3
K8000-705-K2*	3/2 UNI	0.7	0.15	-	0.10	-	-1 ÷ 2

#### 8 mm solenoid valve seat, 2/2-way NC, NO - 3/2 NC, NO, UNI

Note: better performances can be achieved if the valve seat holes are in line with the respective valve holes.

# LEGEND:

- 1 = Port 1 2 = Port 2 3 = Port 3 4 = Free from burrs 5 = Surface to be aligned with the upper surface of the valve reinforcement



FUNCTION	2/2 NC	2/2 NO	3/2 NC	3/2 NO	3/2 UNI (mix.)	3/2 UNI (sel.)
PORT 1	Inlet	-	Inlet	Exhaust	Inlet	Outlet
PORT 2	Outlet	Outlet	Outlet	Outlet	Outlet	Inlet
PORT 3	-	Inlet	Exhaust	Inlet	Inlet	Outlet

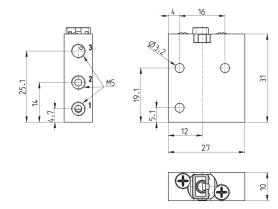
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#### Single body for Series K8 solenoid valve



Material: anodized aluminium Pneumatic connections: M5 threads

NOTE: to be used only with the electrical connector Mod. 120-J...

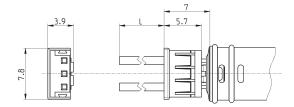


Mod. K8303/14C

## Connector Mod. 120-..



Cable section: 0.25 mm<sup>2</sup>
Cable external diameter: 1.2 mm
Material for the cable insulation: PVC

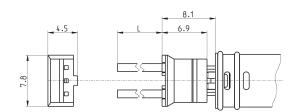


Mod.	description	colour	L = cable length (mm)	cable holding
120-803	crimped cable	white	300	crimping
120-806	crimped cable	white	600	crimping

### Connector with flying leads Mod. 120-J...



Flying leads section: 0.25 mm<sup>2</sup> Flying lead external diameter: 1.2 mm Material for the flying leads insulation: PVC



Mod.	description	colour	L = cable length (mm)	cable holding
120-J803	crimped cable connector J	white	300	crimping
120-J806	crimped cable connector J	white	600	crimping