

# Series K8B pilot operated solenoid valves

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

SERIES K8B SOLENOID VALVES



- » Compact design
- » High flow
- » Manifold mounting
- » Long life

Thanks to their low power consumption and light weight Series K8B solenoid valves are particularly suitable for use with portable equipment too.

Series K8B pilot operated solenoid valves represent the evolution of Series K8 which has been equipped with a flow amplifier. Their particular design makes these valves ideal for use in applications requiring very compact solutions and high flow.

## GENERAL DATA

### TECHNICAL FEATURES

Function	2/2 NC - 3/2 NC - 2/2 NO - 3/2 NO
Operation	pilot operated poppet type
Pneumatic connections	manifold cartridge - M7 threads - on subbase with M3 screws
Nominal diameter	3.6 mm
Nominal flow	180 Nl/min (air @ 6 bar ΔP 1 bar)
Flow coefficient kv (l/min)	2.8
Operating pressure	1 ÷ 7 bar
Operating temperature	0°C ÷ 50°C
Media	filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas
Response time (ISO 12238)	ON <15 msec - OFF <15 msec
Installation	in any position

### MATERIALS IN CONTACT WITH THE MEDIUM

Body	brass - stainless steel - PBT technopolymer - aluminium
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 pitch 4mm - JST connector with flying leads L = 300mm
Protection class	IP00

Special versions available on demand

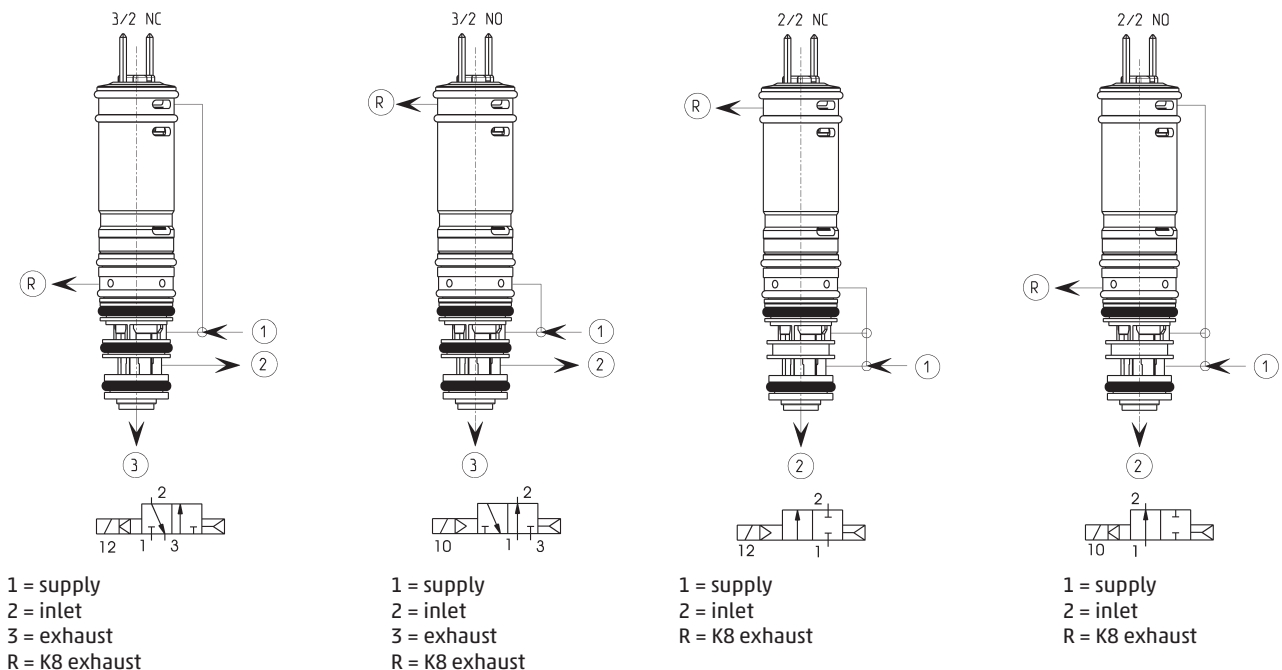
**CODING EXAMPLE**

<b>K8B</b>	<b>C5</b>	<b>4</b>	<b>00</b>	<b>-</b>	<b>D4</b>	<b>3</b>	<b>2</b>	<b>N</b>	<b>-</b>	<b>N</b>	<b>00</b>	<b>1A</b>	<b>C003</b>
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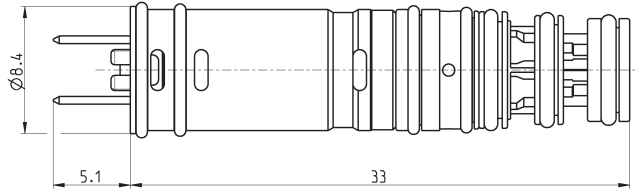
<b>K8B</b>	SERIES
<b>C5</b>	BODY DESIGN: C0 = body with interface for subbase C3 = threaded body C5 = cartridge
<b>4</b>	NUMBER OF WAYS - FUNCTIONS: 1 = 2/2-way NC 2 = 2/2-way NO 4 = 3/2-way NC 5 = 3/2-way NO
<b>00</b>	PNEUMATIC CONNECTIONS: 00 = cartridge 03 = M7 18 = K8B-type interface, 2-way 19 = K8B-type interface, 3-way
<b>D4</b>	NOMINAL DIAMETER: D4 = Ø 3.6mm
<b>3</b>	SEALS MATERIALS: 3 = FKM
<b>2</b>	BODY MATERIALS: 1 = aluminium 2 = brass
<b>N</b>	MANUAL OVERRIDE: N = not foreseen
<b>N</b>	FIXING ACCESSORIES: N = not foreseen P = screws for plastics M = screws for metal
<b>00</b>	OPTION: 00 = no option
<b>1A</b>	ELECTRICAL CONNECTION: 1A = only pins, pitch 4mm 1B = JST connector, pitch 4mm
<b>C003</b>	VOLTAGE - POWER CONSUMPTION: C001 = 6V DC (0.6 W) C002 = 12V DC (0.6 W) C003 = 24V DC (0.6 W)

SERIES K8B SOLENOID VALVES

**AVAILABLE FUNCTIONS**



**8 mm solenoid valve, 2/2 and 3/2-way NC and NO**

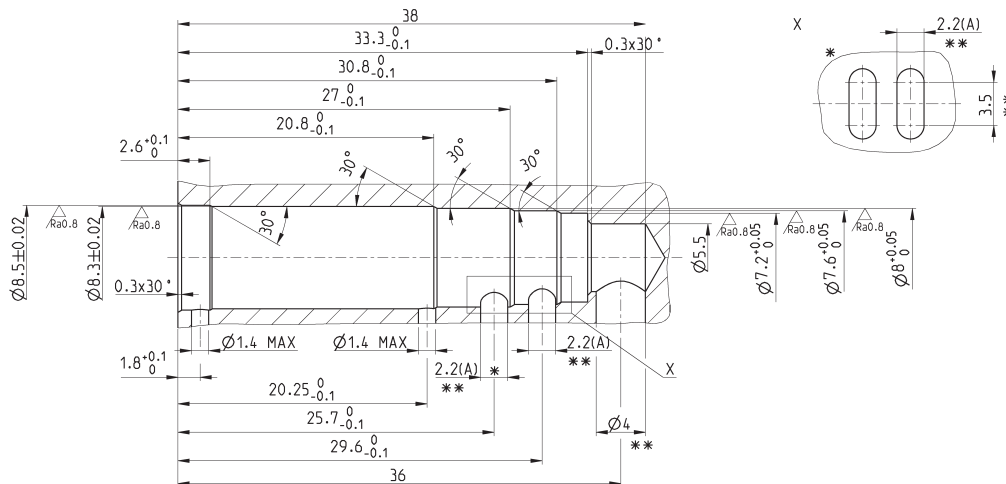


Mod.	Function	NOTE
K8BC5100-D432N-N001A*	2/2 NC	* enter the required voltage (see the coding example)
K8BC5200-D432N-N001A*	2/2 NO	* enter the required voltage (see the coding example)
K8BC5400-D432N-N001A*	3/2 NC	* enter the required voltage (see the coding example)
K8BC5500-D432N-N001A*	3/2 NO	* enter the required voltage (see the coding example)

**8 mm solenoid valve seat, 2/2 and 3/2-way NC and NO**

\* = FOR THE 2/2 VERSION THIS OPERATION HAS NOT TO BE PERFORMED

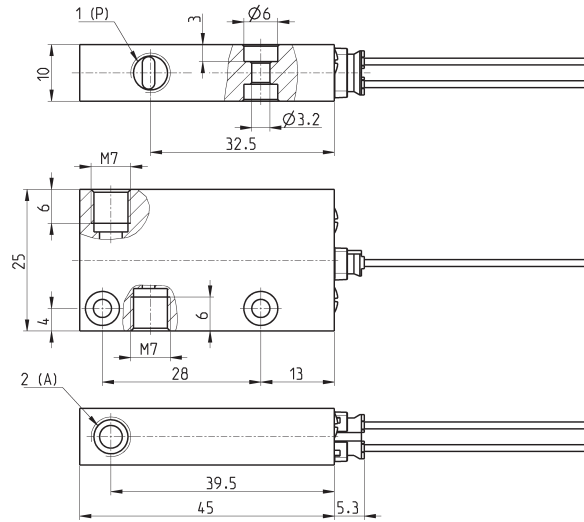
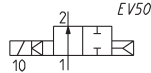
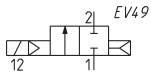
\*\* = TO ACHIEVE DECLARED PERFORMANCE IT IS NECESSARY TO HAVE A PASSAGE SECTION FOR THE SUPPLY AND EXHAUST PORTS OF 12.5 mm<sup>2</sup>, WHICH IS EQUAL TO A Ø4 mm



**Body with threaded ports, 2/2-way NC and NO**



Supplied with:  
1x connector with flying leads  
Mod. 120-J803 (300mm)

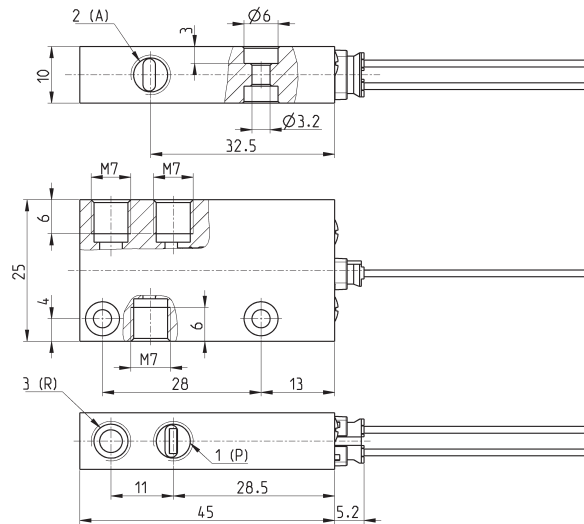
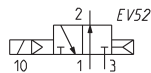
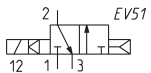


Mod.	Function	Symbol	NOTE
K8BC3103-D431N-N001B*	2/2 NC	EV49	* enter the required voltage (see the coding example)
K8BC3203-D431N-N001B*	2/2 NO	EV50	* enter the required voltage (see the coding example)

**Body with threaded ports, 3/2-way NC and NO**



Supplied with:  
1x connector with flying leads  
Mod. 120-J803 (300mm)

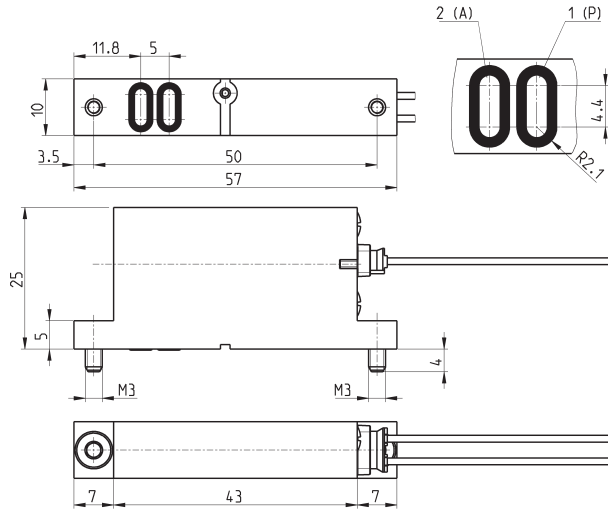
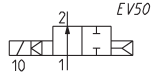
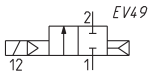


Mod.	Function	Symbol	NOTE
K8BC3403-D431N-N001B*	3/2 NC	EV51	* enter the required voltage (see the coding example)
K8BC3503-D431N-N001B*	3/2 NO	EV52	* enter the required voltage (see the coding example)

**Body for subbase, 2/2-way NC and NO**



Supplied with:  
1x connector with flying leads  
Mod. 120-J803 (300mm)  
2x interface seals  
2x screws M3x6 UNI 5931  
(for M version)  
or  
2x screws M3x6 UNI 10227  
(for P version)

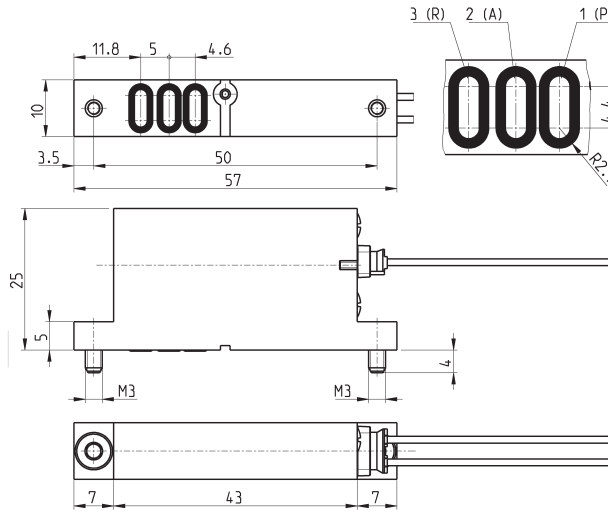
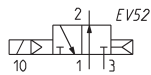
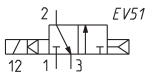


Mod.	Function	Symbol	NOTE
K8BC0118-D431N-*001B**	2/2 NC	EV49	* enter the type of screws - ** enter the required voltage (see the coding example)
K8BC0218-D431N-*001B**	2/2 NO	EV50	* enter the type of screws - ** enter the required voltage (see the coding example)

**Body for subbase, 3/2-way NC and NO**



Supplied with:  
1x connector with flying leads  
Mod. 120-J803 (300mm)  
3x interface seals  
2x screws M3x6 UNI 5931  
(for M version)  
or  
2x screws M3x6 UNI 10227  
(for P version)

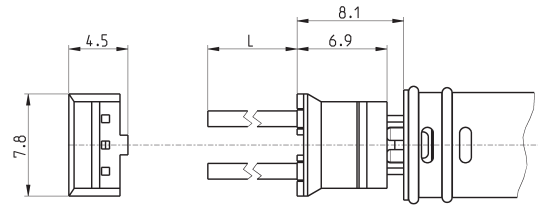


Mod.	Function	Symbol	NOTE
K8BC0419-D431N-*001B**	3/2 NC	EV51	* enter the type of screws - ** enter the required voltage (see the coding example)
K8BC0519-D431N-*001B**	3/2 NO	EV52	* enter the type of screws - ** enter the required voltage (see the coding example)

## 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