

# 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)

2

CONTROL



- » 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

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

### MATERIALS IN CONTACT WITH THE MEDIUM

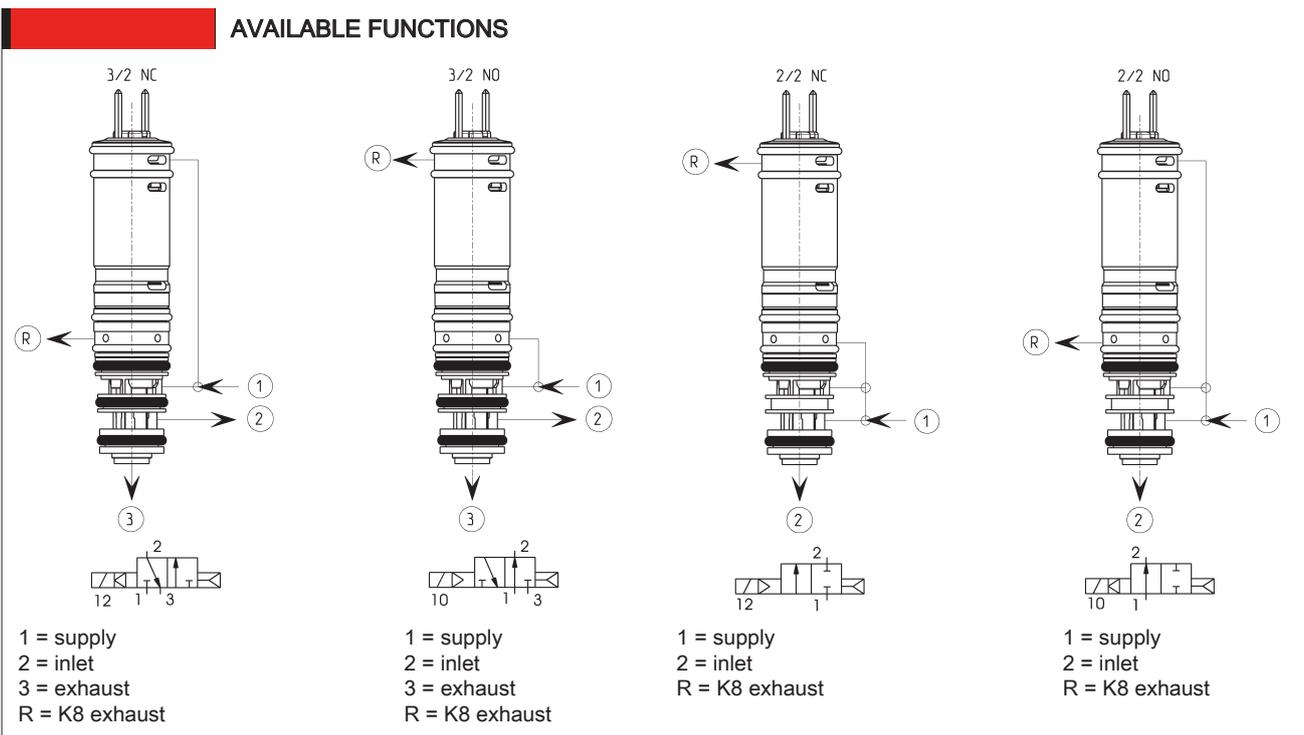
<b>Body</b>	brass - stainless steel - PBT technopolymer - aluminium
<b>Seals</b>	FKM
<b>Internal parts</b>	stainless steel

### ELECTRICAL FEATURES

<b>Voltage</b>	24 V DC - 12 V DC - 6 V DC - other voltages on demand
<b>Voltage tolerance</b>	±10%
<b>Power consumption</b>	0.6 W
<b>Duty cycle</b>	ED 100%
<b>Electrical connection</b>	2 Pin 0.5 x 0.5 pitch 4mm - JST connector with flying leads L = 300mm
<b>Protection class</b>	IP00

Special versions available on demand

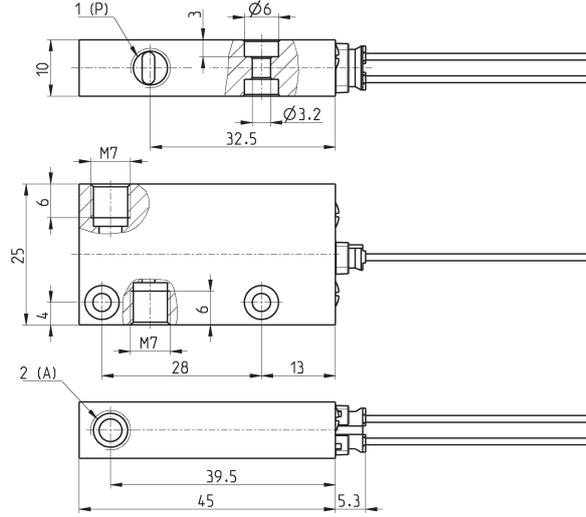
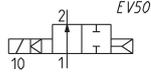
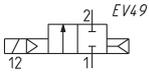
CODING EXAMPLE													
<b>K8B</b>	<b>C5</b>	<b>4</b>	<b>00</b>	<b>-</b>	<b>D4</b>	<b>3</b>	<b>2</b>	<b>N</b>	<b>-</b>	<b>N</b>	<b>00</b>	<b>1A</b>	<b>C003</b>
<b>K8B</b>	SERIES												
<b>C5</b>	BODY DESIGN: C0 = body with interface for subbase C3 = threaded body C5 = cartridge												
<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)												





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

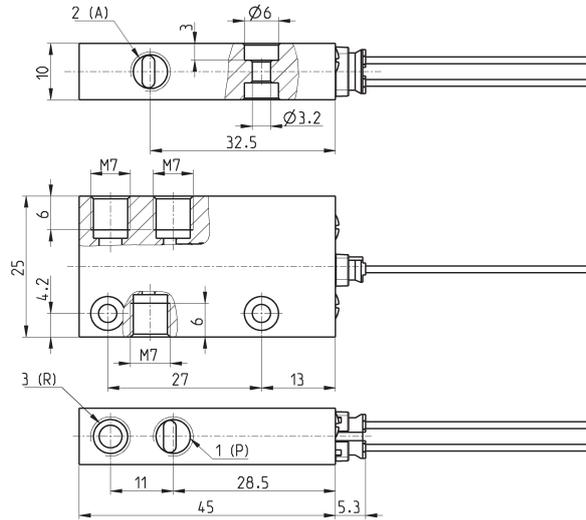
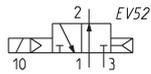
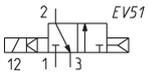
Supplied with:  
1x connector with flying leads  
Mod. 120-J803 (300mm)



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

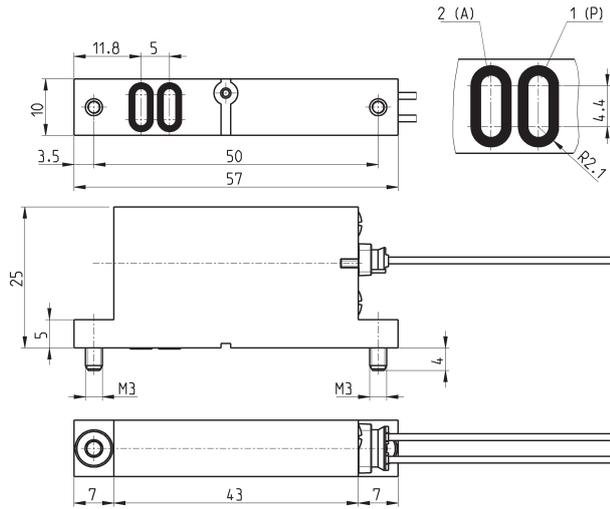
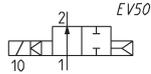
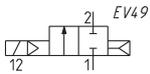
Supplied with:  
1x connector with flying leads  
Mod. 120-J803 (300mm)



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**

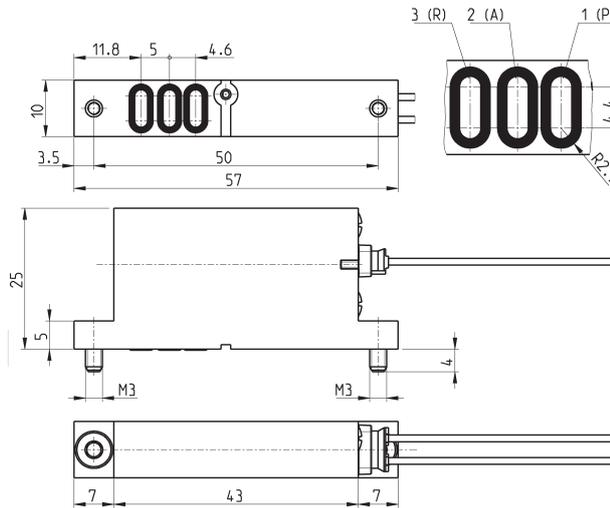
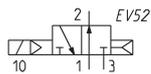
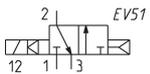

Supplied with:  
 1x connector with flying leads  
 Mod. 120-J803 (300mm)  
 2x interface seals  
 2x screws M3x6 UNI 5931  
 (for M version)  
 or  
 2x screws M3x6 UNI 10227  
 (for P version)



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**

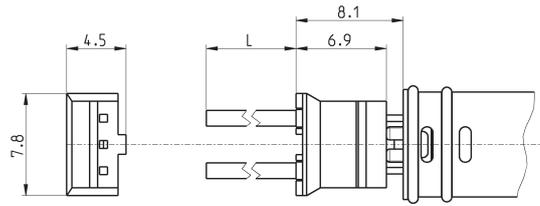

Supplied with:  
 1x connector with flying leads  
 Mod. 120-J803 (300mm)  
 3x interface seals  
 2x screws M3x6 UNI 5931  
 (for M version)  
 or  
 2x screws M3x6 UNI 10227  
 (for P version)



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
<b>120-J803</b>	crimped cable connector J	white	300	crimping
<b>120-J806</b>	crimped cable connector J	white	600	crimping