

INDIRECT ACTING SOLENOID VALVES

SERIES K8B

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



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

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.

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

General Data

TECHNICAL FEATURES	
Function	2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO
Operation	Indirect acting poppet type
Pneumatic connections	Cartridge seat in manifold - M7 threads - on subbase
Orifice diameter	3.6 mm
Flow coefficient kv (l/min)	2.8
Operating pressure	1 ÷ 7 bar
Operating temperature	0 ÷ 50 °C
Fluid	Filtered compressed air, unlubricated, according to ISO 8573-1:2010, class [3:4:3], inert gas
Response time when discharging (ISO 12238)	ON <15 ms - OFF <15 ms
Installation	In any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body	Brass - stainless steel - PBT - aluminium
Seals	FKM
Internal parts	Stainless steel - enamelled copper
ELECTRICAL FEATURES	
Voltage	3 ... 24 V DC - other voltages on demand
Voltage tolerance	±10%
Power consumption	0.6 W
Duty cycle	ED 100%
Electrical connection	2 pins 0.5 x 0.5 pitch 4 mm - JST connector with 300 mm flying leads
Protection class	IP00

Special versions available on demand.

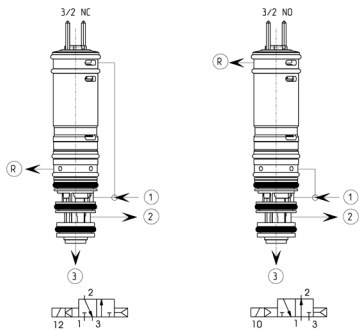
INDIRECT ACTING SOLENOID VALVES
SERIES K8B - CODING EXAMPLES

Coding Examples

K8B	C5	4	00	-	D4	3	2	N	-	N	00
K8B	SERIES										
C5	BODY DESIGN C0 = Valve with aluminium body flanged connections C3 = Valve with aluminium body threaded connections C5 = Cartridge valve without body										
4	NUMBER OF WAYS - FUNCTIONS 1 = 2/2-way - NC 2 = 2/2-way - NO 4 = 3/2-way - NC 5 = 3/2-way - NO										
00	PNEUMATIC CONNECTIONS 00 = Cartridge seat in manifold 03 = M7 thread 18 = 2/2-way K8B-type interface 19 = 3/2-way K8B-type interface										
D4	ORIFICE DIAMETER D4 = Ø3,6mm										
3	SEALS MATERIALS 3 = FKM										
2	MATERIALS 1 = Stainless steel - brass - aluminium (valve with body version) 2 = Stainless steel - brass (cartridge version)										
N	MANUAL OVERRIDE N = Not foreseen										
N	FIXING N = Not foreseen P = Screws for plastics M = Screws for metal										
00	OPTION 00 = No option										
1A	ELECTRICAL CONNECTION 2 = Pins - pitch 4 mm 3 = JST connector with 300 mm flying leads										
C003	VOLTAGE - POWER CONSUMPTION C001 = 6 V DC (0,6 W) C002 = 12 V DC (0,6 W) C003 = 24 V DC (0,6 W)										
	USE WITH OXYGEN: = Not suitable for use with oxygen OX1 = for use with oxygen - cleanliness level according to ASTM G93-03 Standard Level E										

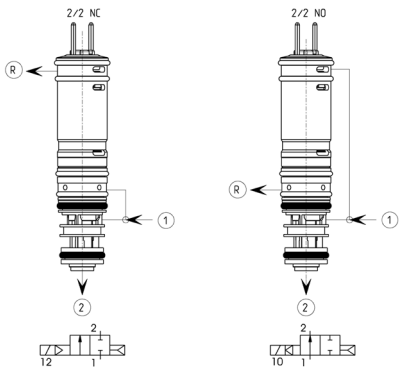
Available functions

3/2 NC 3/2 NO

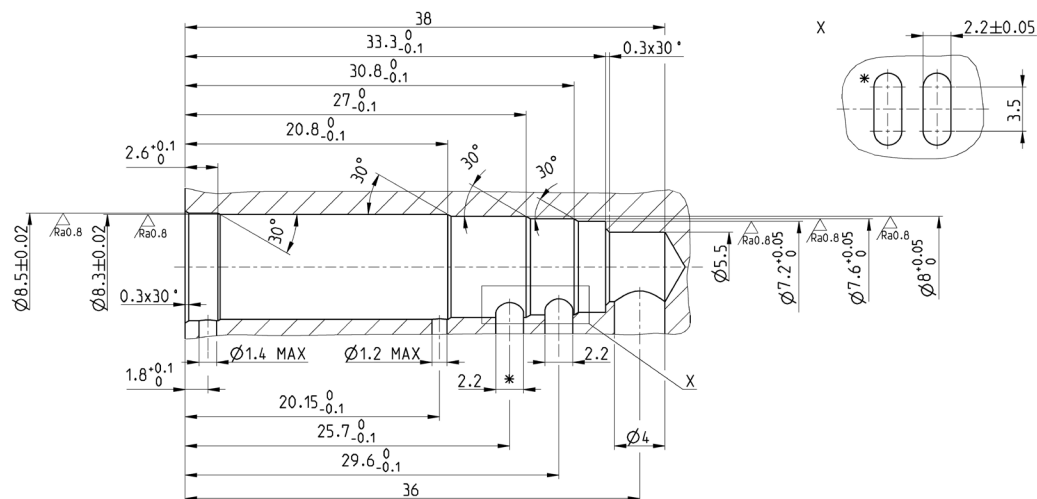
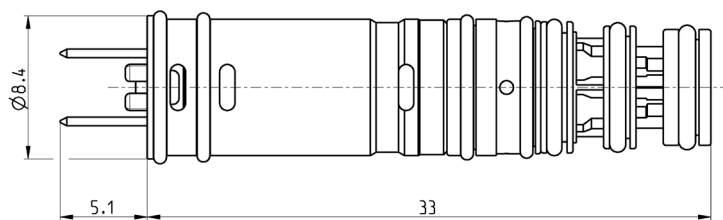


NO.	Description	NO.	Description
1	Inlet	1	Inlet
2	Outlet	2	Outlet
3	Exhaust	3	Exhaust
R	Piloting exhaust	R	Piloting exhaust

2/2 NC 2/2 NO



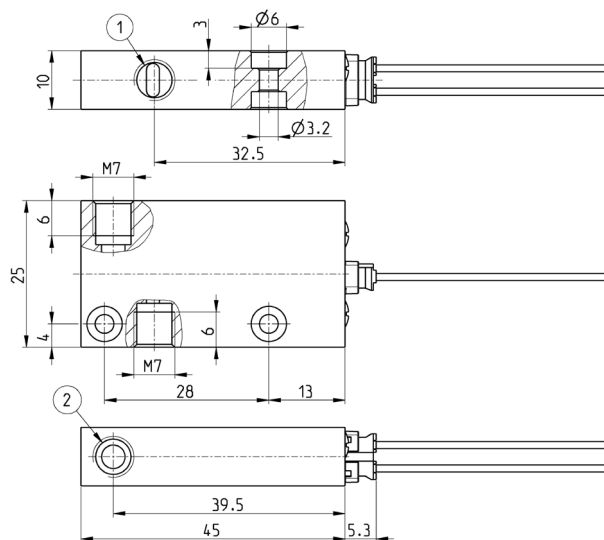
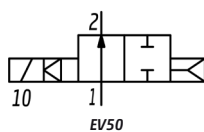
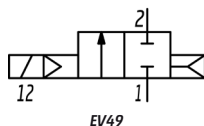
NO.	Description	NO.	Description
1	Inlet	1	Inlet
2	Outlet	2	Outlet
R	Piloting exhaust	R	Piloting exhaust



Series K8B solenoid valve - 2/2-way - Threaded ports body version



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



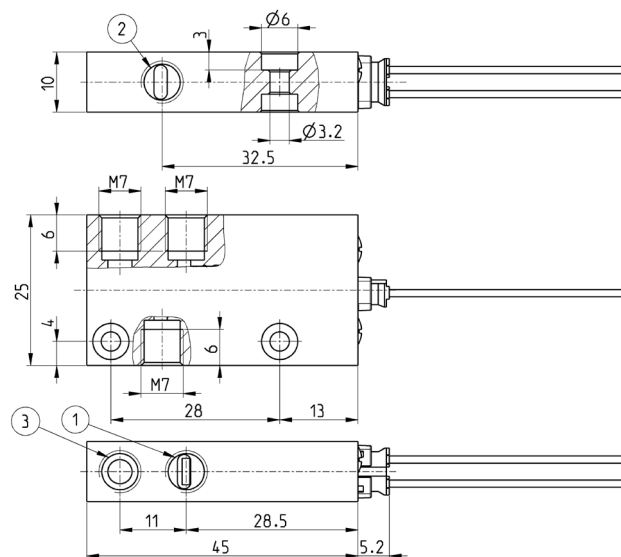
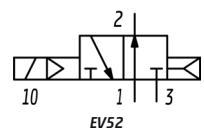
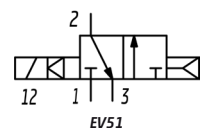
* add
- VOLTAGE
(see CODING EXAMPLE)

Mod.	Function	Orifice Ø (mm)	Kv (l/min)	Min+max pressure (bar)
K8BC3103-D431N-N001B [☆]	2/2 NC	3,6	2,8	1+7
K8BC3203-D431N-N001B [☆]	2/2 NO	3,6	2,8	1+7

Series K8B solenoid valve - 3/2-way - Threaded ports body version



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



* add
- VOLTAGE
(see CODING EXAMPLE)

Mod.	Function	Orifice Ø (mm)	Kv (l/min)	Min÷max pressure (bar)
K8BC3403-D431N-N001B*	3/2 NC	3,6	2,8	1÷7
K8BC3503-D431N-N001B*	3/2 NO	3,6	2,8	1÷7

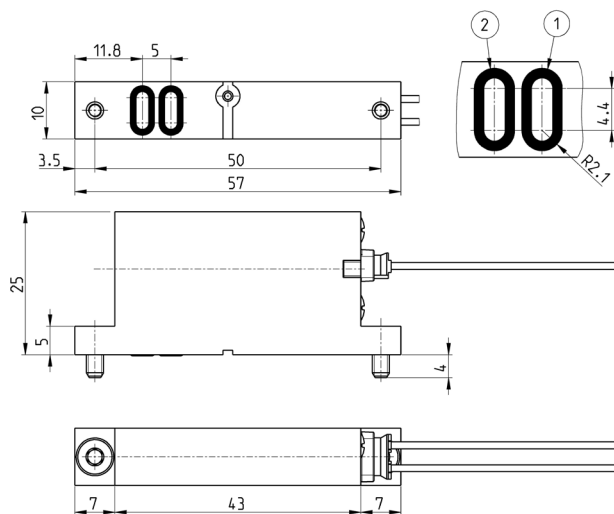
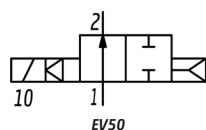
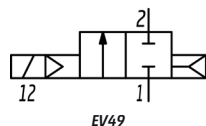
INDIRECT ACTING SOLENOID VALVES

SERIES K8B - DIMENSIONS

Series K8B solenoid valve - 2/2-way - Flanged body version



Supplied with:
 1x connector with flying leads
 Mod. 120-J803 (300mm)
 2x interface seals
 2x M3x6 screws for mounting on metal
 or
 2x Ø3x6 screws for mounting on plastic



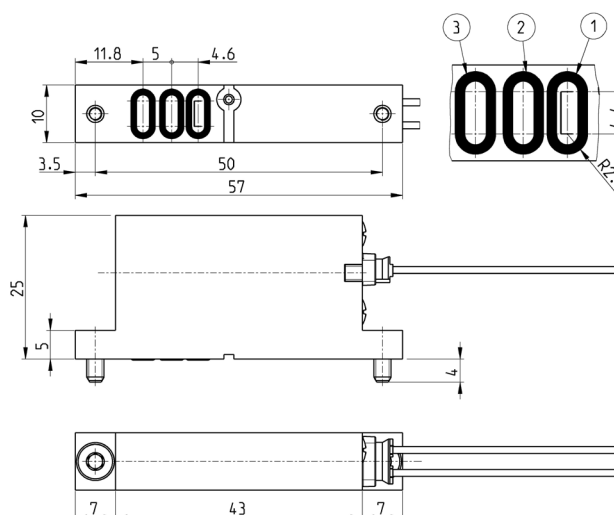
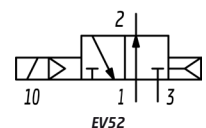
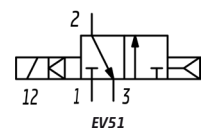
* add
 - FIXING
 - VOLTAGE
 (see CODING EXAMPLE)

Mod.	Function	Orifice Ø (mm)	Kv (l/min)	Min÷max pressure (bar)
K8BC0118-D431N-*001B*	2/2 NC	3,6	2,8	1÷7
K8BC0218-D431N-*001B*	2/2 NO	3,6	2,8	1÷7

Series K8B solenoid valve - 3/2-way - Flanged body version



Supplied with:
 1x connector with flying leads
 Mod. 120-J803 (300mm)
 3x interface seals
 2x M3x6 screws for mounting on metal
 or
 2x Ø3x6 screws for mounting on plastic



* add
 - FIXING
 - VOLTAGE
 (see CODING EXAMPLE)

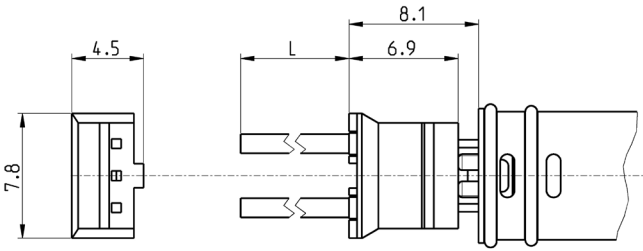
Mod.	Function	Orifice Ø (mm)	Kv (l/min)	Min÷max pressure (bar)
K8BC0419-D431N-*001B*	3/2 NC	3,6	2,8	1÷7
K8BC0519-D431N-*001B*	3/2 NO	3,6	2,8	1÷7

INDIRECT ACTING SOLENOID VALVES
SERIES K8B - ACCESSORIES

Series K8B Solenoid Valves - Connector J



Cable section: 0.22 mm²
Cable external diameter:
1.2 mm
Material for the cable
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