

# Series K8DV directly operated solenoid valves with fluid separation membrane

2/2-way - Normally Closed (NC)



- » Very compact design and reduced weight
- » High flow performances
- » Very low internal volume
- » Suitable to be applied in medical equipment and analytical instruments

To choose the most suitable model for a specific application, check the chemical compatibility of the medium to control with the available materials of body and seals.

The K8DV solenoid valve was born to meet all the demands to shut off aggressive or heat sensitive fluids. Thanks to a fluid separation membrane, the fluid is isolated from all internal metal parts of the solenoid valve and avoids heating, even if minimum, generated by the solenoid positioned above.

#### **GENERAL DATA**

TECHNICAL FEATURES	
Function	2/2 NC
Operation	directly operated with fluid separation membrane
Pneumatic connections	cartridge for manifold or flanged for subbase
Nominal diameter	0.7 mm
Flow efficient kv (l/min)	0.1
Operating pressure	0 ÷ 2.1 bar
Operating temperature	5 ÷ 50°C
Media	liquids / aggressive or inert gases
Response time (ISO 12238)	ON ≤ 10 ms - OFF ≤ 15 ms
Installation	in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body	PEEK
Seals	FKM - EPDM
ELECTRICAL FEATURES	
Voltage	24 V DC - 12 V DC - 6 V DC - 5 V DC - 3 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 spacing 4 mm
Protection class	IP00

SERIES K8DV SOLENOID VALVES

#### **CODING EXAMPLE**

1		I				1		1		1
K8DV	C	00	-	5	0	5	-	G	2	3
K8DV	SERIES									
C	TYPE OF BODY: C = cartridge ve O = flanged ver									
00	NUMBER OF POS 00 = valve with									
5	NUMBER OF WA' 5 = 2-way NC	YS - FUNCTIONS:								
0	SEAL MATERIAL: 0 = FKM 4 = EPDM									
5	NOMINAL DIAME 5 = Ø 0.7 mm	ETER:								
G	BODY MATERIAL G = PEEK	:								
2	ELECTRICAL CON 2 = interface pi									
3	VOLTAGE - POWE 1 = 6V DC - 0.6 V 2 = 12V DC - 0.6 3 = 24V DC - 0.6 V 4 = 3V DC - 0.6 V 5 = 5V DC - 0.6 V	W W W								

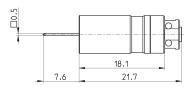
# Solenoid valve with fluid separation membrane, cartridge version



DRAWING LEGEND: 1 = inlet 2 = outlet

NOTE TO THE TABLE: \* to complete the code add VOLTAGE - POWER CONSUMPTION(see the CODING EXAMPLE)







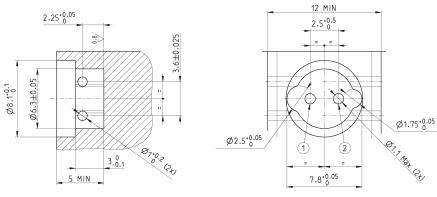


Mod.	Nominal diameter Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seal material
K8DVC00-505-G2*	0.7	0.1	0 ÷ 2.1	PEEK	FKM
K8DVC00-545-G2*	0.7	0.1	0 ÷ 2.1	PEEK	EPDM

## Solenoid valve seat, cartridge version

DRAWING LEGEND:

1 = supply 2 = inlet



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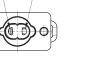
SERIES K8DV SOLENOID VALVES

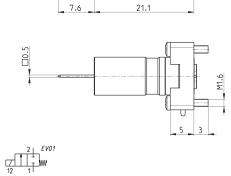
## Solenoid valve with fluid separation membrane, flanged version



DRAWING LEGEND: 1 = supply 2 = inlet

NOTE TO THE TABLE: \* to complete the code add VOLTAGE - POWER CONSUMPTION (see the CODING EXAMPLE)





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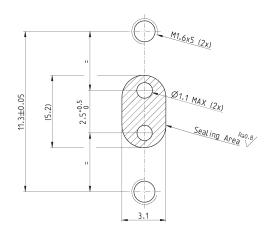
Ø8

Mod.	Nominal diameter Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seal material
K8DV000-505-G2*	0.7	0.1	0 ÷ 2.1	PEEK	FKM
K8DV000-545-G2*	0.7	0.1	0 ÷ 2.1	PEEK	EPDM

## Mounting pad of the flanged solenoid valve

DRAWING LEGEND:

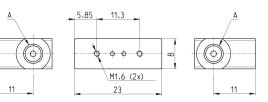
1 = inlet 2 = outlet

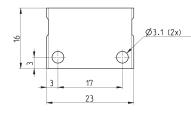


## Single sub base for flanged version

Material: PEEK Pneumatic connections: M5 or 1/4-28 UNF threads







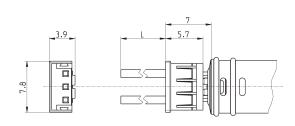
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Mod.	A (pneumatic connections)	
K8DV0001-1/4	1/4 - 28 UNF	
K8DV0001-M5	M5	

## Connector Mod. 120-..



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

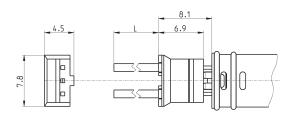


Mod.	description	colour	L = cable length (mm)	cable holding
120-803	crimped cable	white	300	crimping
120-806	crimped cable	white	600	crimping

# 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