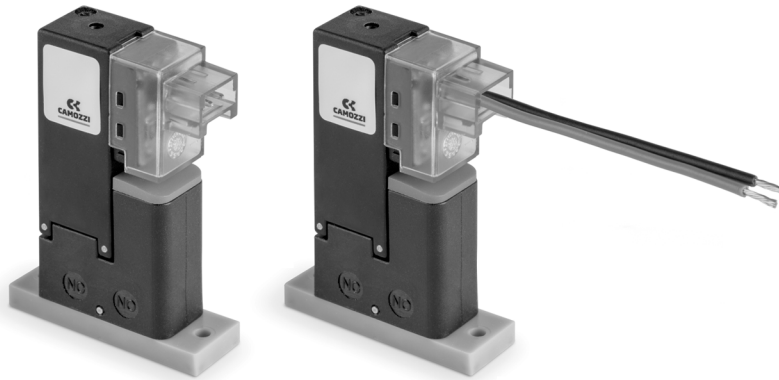


Media separated solenoid valves Series KDV

New

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



- » Suitable to be used with neutral or aggressive or heat sensitive fluids
- » Suitable for specific applications on medical and analytical equipment or instruments
- » Compact design

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

The Series KDV are solenoid valves designed to control critical media such as aggressive, high purity liquids or gases or thermosensitive fluids. These valves prevent the controlled media from interacting with the internal mechanical part of the valve. The orifices are open or closed by a separation element on which acts a mechanism moved by a solenoid actuator.

GENERAL DATA

TECHNICAL FEATURES

Function	2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO - 3/2 UNI
Operation	direct acting with fluid separation membrane
Pneumatic connections	flanged for subbase or manifold
Orifice diameter	0.8 ... 1.3 mm
Flow coefficient kv (l/min)	0.2 ... 0.4
Operating pressure	-0.95 ... 2.0 bar
Operating temperature	0 ÷ 50 °C (FKM/EPDM) / 10 ÷ 50 °C (FFKM)
Media	inert or corrosive liquids and gases compatible with the materials in contact
Response time	ON ≤20 ms - OFF ≤20 ms
Installation	in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body	PEEK
Seals	FKM - EPDM - FFKM

ELECTRICAL FEATURES

Voltage	6 ... 24 V DC - other voltages on demand
Voltage tolerance	±5%
Power consumption	4/1 W
Duty cycle	ED 100%
Electrical connection	connector mod. 121-8... - 300 mm flying leads
Protection class	IP40 with connector

Special versions available on request

CODING EXAMPLE

KDV	1	6	0	-	B0	3	G	-	1	8	M	
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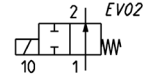
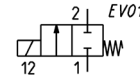
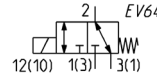
KDV	SERIES
1	BODY DESIGN 1 = flanged body for sub-base
6	NUMBER OF WAYS - FUNCTION 1 = 2/2-way - NC 2 = 2/2-way - NO 6 = 3/2-way - UNI
0	PNEUMATIC CONNECTION 0 = on sub-base or manifold
B0	ORIFICE DIAMETER A8 = Ø 0.8 mm B0 = Ø 1.0 mm B3 = Ø 1.3 mm
3	SEAL MATERIAL 3 = FKM 4 = EPDM 5 = FFKM
G	BODY MATERIAL G = PEEK
1	ELECTRICAL CONNECTION 1 = 90° connection with protection and led B = in-line connection with protection and led F = 90° 300 mm flying leads with protection and led W = in-line 300 mm flying leads with protection and led
8	VOLTAGE - POWER CONSUMPTION 6 = 6 V DC - 4/1 W 7 = 12 V DC - 4/1 W 8 = 24 V DC - 4/1 W
M	FIXING M = fixing screws
	OPTIONS = standard

Series KDV solenoid valve - 90° connector

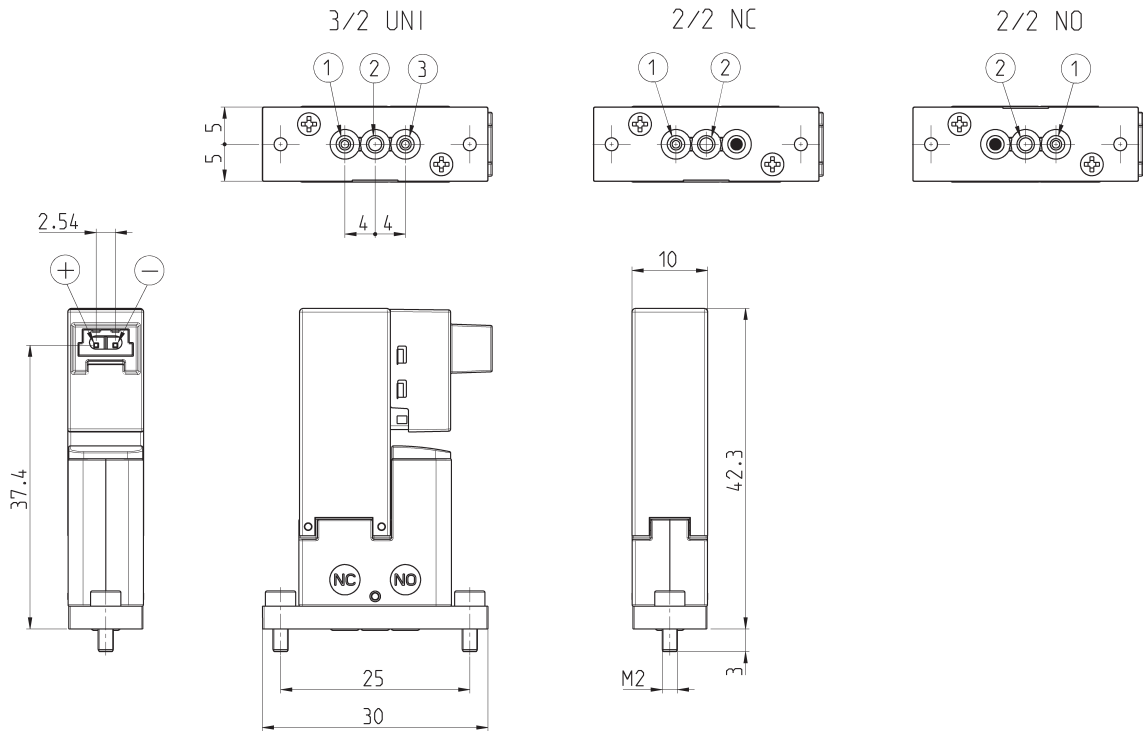


Supplied with:
1x interface seal
2x M2X6 screws

* add
- SEAL MATERIAL
- VOLTAGE
(see CODING EXAMPLE)



SERIES KDV SOLENOID VALVES



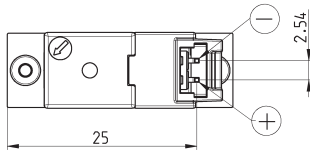
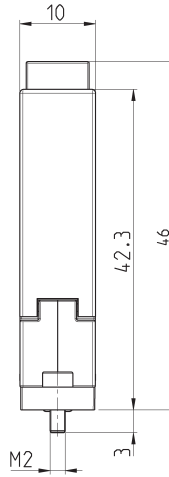
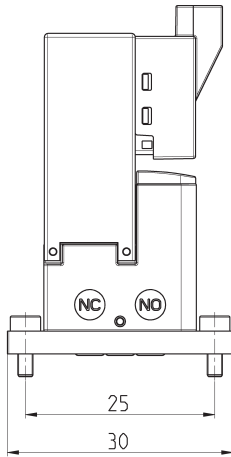
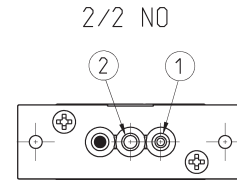
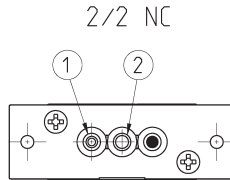
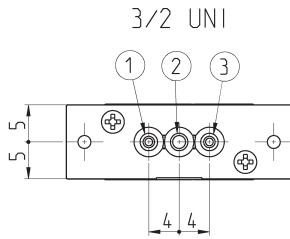
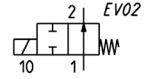
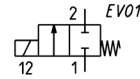
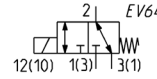
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Body material	Seals material	Power (W)	Symbol
KDV110-A8°G-1*M	2/2 NC	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV01
KDV110-B0°G-1*M	2/2 NC	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV01
KDV110-B3°G-1*M	2/2 NC	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV01
KDV120-A8°G-1*M	2/2 NO	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV120-B0°G-1*M	2/2 NO	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV120-B3°G-1*M	2/2 NO	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV160-A8°G-1*M	3/2 UNI	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV64
KDV160-B0°G-1*M	3/2 UNI	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV64
KDV160-B3°G-1*M	3/2 UNI	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV64

Series KDV solenoid valve - in-line connector



Supplied with:
1x interface seal
2x M2x6 screws

* add
- SEAL MATERIAL
- VOLTAGE
(see CODING EXAMPLE)



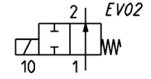
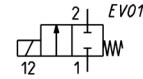
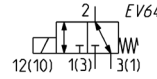
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Body material	Seals material	Power (W)	Symbol
KDV110-A8*G-B*M	2/2 NC	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV01
KDV110-B0*G-B*M	2/2 NC	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV01
KDV110-B3*G-B*M	2/2 NC	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV01
KDV120-A8*G-B*M	2/2 NO	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV120-B0*G-B*M	2/2 NO	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV120-B3*G-B*M	2/2 NO	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV160-A8*G-B*M	3/2 UNI	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV64
KDV160-B0*G-B*M	3/2 UNI	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV64
KDV160-B3*G-B*M	3/2 UNI	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV64

Series KDV solenoid valve - 90° 300 mm flying leads

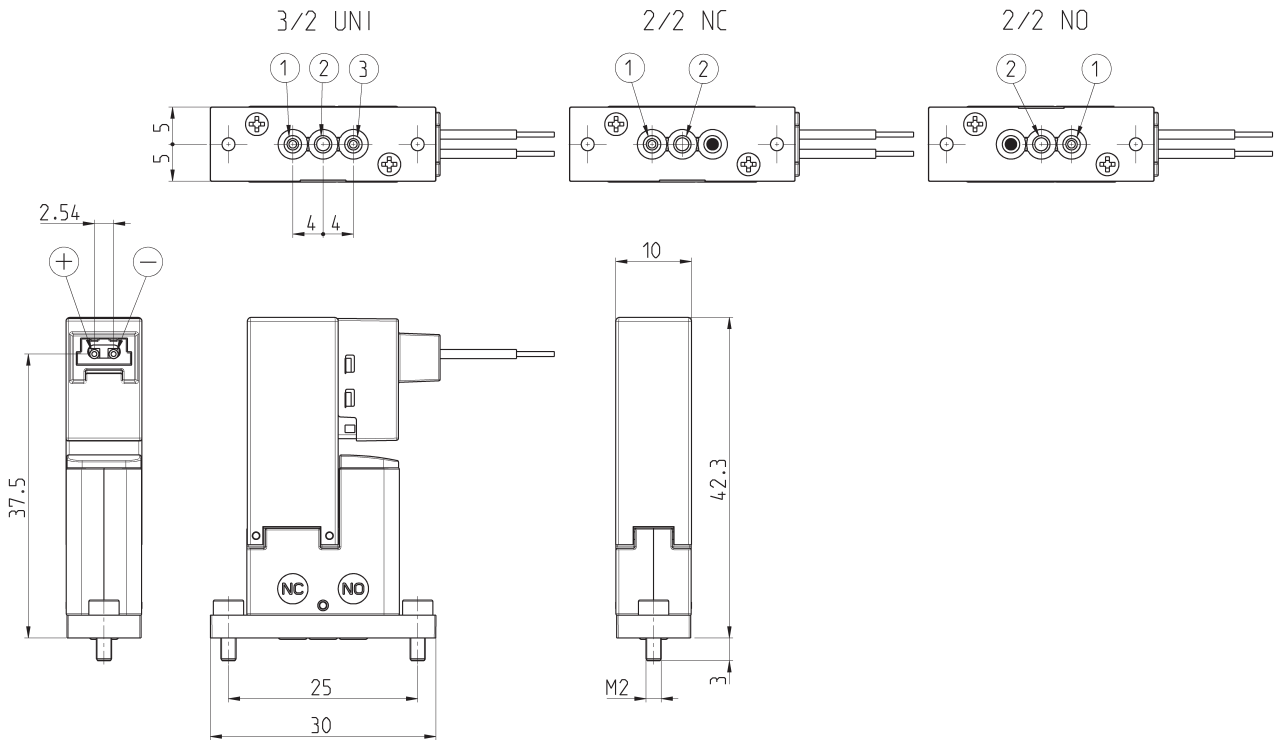


Supplied with:
1x interface seal
2x M2x6 screws

* add
- SEAL MATERIAL
- VOLTAGE
(see CODING EXAMPLE)



SERIES KDV SOLENOID VALVES



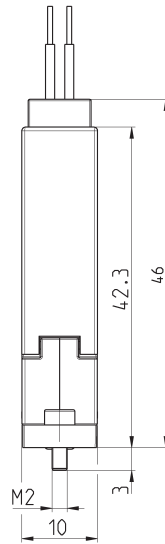
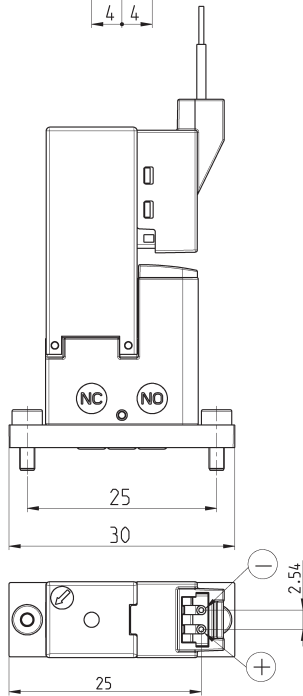
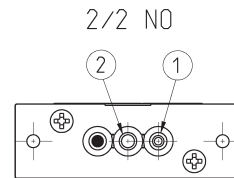
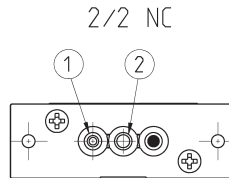
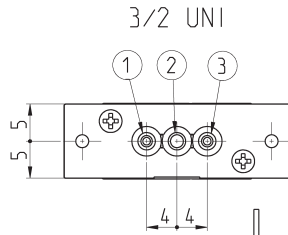
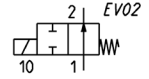
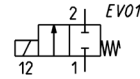
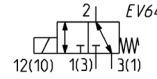
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Body material	Seals material	Power (W)	Symbol
KDV110-A8°G-F*M	2/2 NC	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV01
KDV110-B0°G-F*M	2/2 NC	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV01
KDV110-B3°G-F*M	2/2 NC	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV01
KDV120-A8°G-F*M	2/2 NO	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV120-B0°G-F*M	2/2 NO	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV120-B3°G-F*M	2/2 NO	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV160-A8°G-F*M	3/2 UNI	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV64
KDV160-B0°G-F*M	3/2 UNI	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV64
KDV160-B3°G-F*M	3/2 UNI	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV64

Series KDV solenoid valve - in-line 300 mm flying leads



Supplied with:
1x interface seal
2x M2x6 screws

* add
- SEAL MATERIAL
- VOLTAGE
(see CODING EXAMPLE)

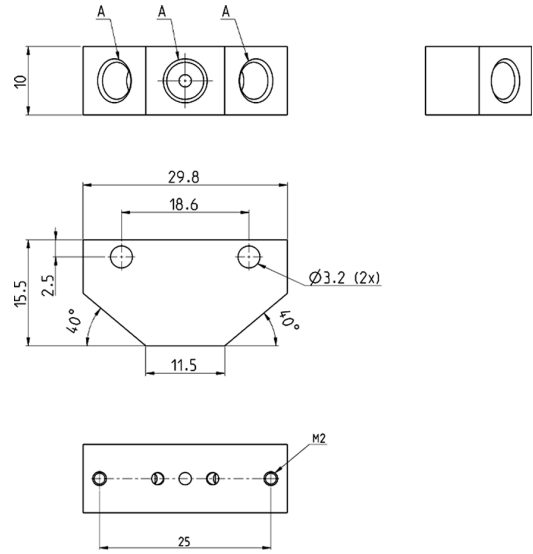


Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Body material	Seals material	Power (W)	Symbol
KDV110-A8*G-W*M	2/2 NC	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV01
KDV110-B0*G-W*M	2/2 NC	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV01
KDV110-B3*G-W*M	2/2 NC	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV01
LDV120-A8*G-W*M	2/2 NO	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV120-B0*G-W*M	2/2 NO	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV120-B3*G-W*M	2/2 NO	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV02
KDV160-A8*G-W*M	3/2 UNI	0.8	0.2	-0.95 ÷ 2.0	PEEK	FKM / EPDM / FFKM	4/1	EV64
KDV160-B0*G-W*M	3/2 UNI	1.0	0.3	-0.95 ÷ 1.5	PEEK	FKM / EPDM / FFKM	4/1	EV64
KDV160-B3*G-W*M	3/2 UNI	1.3	0.4	-0.95 ÷ 1.0	PEEK	FKM / EPDM / FFKM	4/1	EV64

Single subbase for Series KDV solenoid valve

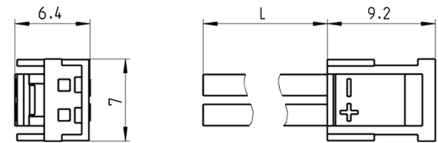


Material: PEEK
Connections: M5 or 1/4-28 UNF threads



DIMENSIONS	
Mod.	A
KDV001-1/4	1/4 - 28 UNF
KDV001-M5	M5

Connector with flying leads Mod. 121-8..



Mod.	description	colour	L = cable length (mm)	cable holding
121-803	crimped cable	black	300	crimping
121-806	crimped cable	black	600	crimping
121-810	crimped cable	black	1000	crimping
121-830	crimped cable	black	3000	crimping