

New versions

Series PDV directly operated solenoid valves with separating diaphragm

2/2-way - Normally Closed (NC)



- » Suitable to be used with neutral or aggressive 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 to control with the available materials of body and seals.

Series PDV directly operated solenoid valve is available with several nominal diameters and in three different versions according to the electrical connection. Moreover, the separating diaphragm protects the medium from extreme changes of temperature due to heating of the solenoid.

GENERAL DATA

TECHNICAL FEATURES	
Function Operation Pneumatic connections Nominal diameter Nominal flow Flow coefficient kv (I/min) Operating pressure Operating temperature Media Response time (ISO 12238) Installation	2/2 NC directly operated with separating diaphragm on subbase by means of M3 screws 0.8 2 mm see kv 0.25 0.8 0 7 bar 10°C + 50°C gas and liquids: air, water, reagents, solvents, etc ≤ 15 ms in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body Seals	PEEK FKM - EPDM
ELECTRICAL FEATURES	
Voltage Voltage tolerance Power consumption Duty cycle Electrical connection Protection class	24 V DC - 12 V DC - other voltages on request ±10% 2 W ED 100% industrial standard (9.4 mm), DIN EN 175 301-803-C (8 mm), cable L = 300 mm IP65 with connector
Special versions available on request	



CODING EXAMPLE

C0 1 22 - B7	3 G N - M 00 4A C023
SERIES	
BODY DESIGN: C0 = body with interface for subbase	
NUMBER OF WAYS - FUNCTIONS: 1 = 2/2-way NC	
PNEUMATIC CONNECTIONS: 22 = PDV-type interface, 2-way	
NOMINAL DIAMETER: A7 = \emptyset 0.8 mm B3 = \emptyset 1.2 mm B7 = \emptyset 1.6 mm C1 = \emptyset 2.0 mm	
SEAL MATERIAL: 3 = FKM 4 = EPDM	
BODY MATERIAL: G = PEEK	
MANUAL OVERRIDE: N = not foreseen	
FIXING ACCESSORIES: M = screws for metal	
OPTIONS: 00 = none	
ELECTRICAL CONNECTION: 3A = DIN EN 175 301-803-C (8 mm) 4A = industrial standard (9.4 mm) 7A = cables (L = 300 mm)	3C = DIN EN 175 301-803-C (8 mm) with coil rotated 180° 4C = industrial standard (9.4 mm) with coil rotated 180° 7C = cables (L = 300 mm) with coil rotated 180°
VOLTAGE - POWER CONSUMPTION: C017 = 6V DC 2W C020 = 12V DC 2W C023 = 24V DC 2W	
	SERIES BODY DESIGN: $C0 = body$ with interface for subbase NUMBER OF WAYS - FUNCTIONS: $1 = 2/2$ -way NC PNEUMATIC CONNECTIONS: $22 = PDV$ -type interface, 2-way NOMINAL DIAMETER: $A7 = 0.8$ mm $B3 = 0$ $B7 = 0.8$ mm $B7 = 0.8$ mm $B7 = 0.16$ mm $C1 = 0.2.0$ mm SEAL MATERIAL: $3 = FKM$ $4 = EPDM$ BODY MATERIAL: $3 = FKM$ $4 = EPDM$ BODY MATERIAL: $G = PEEK$ MANUAL OVERRIDE: $N = not foreseen$ FIXING ACCESSORIES: $M = screws for metal$ OPTIONS: $00 = none$ ELECTRICAL CONNECTION: $3A = DIN EN 175 301-803-C (8 mm)$ $4A = industrial standard (9.4 mm)$ $7A = cables (L = 300 mm)$ VOLTAGE - POWER CONSUMPTION: C017 = 6 VDC 2W C020 = 12V DC 2W

2/2 NC solenoid valve, industrial standard (9.4 mm)

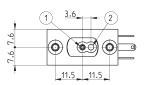


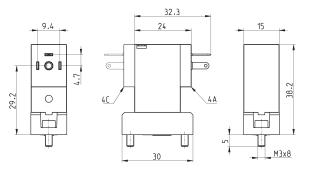
Supplied with: 1x seal 2x M3x8 UNI 5931 screws

NOTE IN THE TABLE BELOW: * to complete the code, add ELECTRICAL CONNECTION (4A or 4C options) and VOLTAGE (see CODING EXAMPLE)

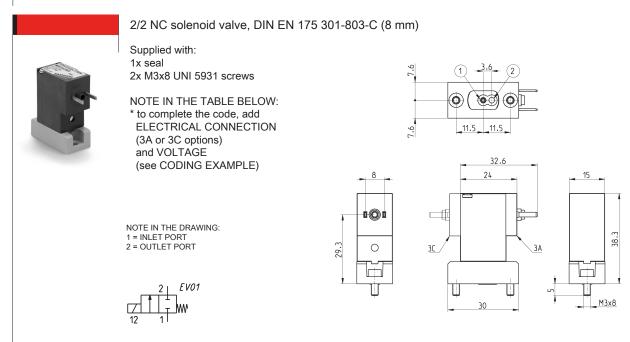
NOTE IN THE DRAWING: 1 = INLET PORT 2 = OUTLET PORT







Mod.	Orifice Ø (mm)	kv (l/min)	Min/max pressure (bar)	Max back pressure (bar)	Body material	Seal material
PDVC0122-A73GN-M00*	0.8	0.25	0 ÷ 7.0	1.2	PEEK	FKM
PDVC0122-A74GN-M00*	0.8	0.25	0 ÷ 7.0	1.2	PEEK	EPDM
PDVC0122-B33GN-M00*	1.2	0.55	0 ÷ 4.5	1.2	PEEK	FKM
PDVC0122-B34GN-M00*	1.2	0.55	0 ÷ 4.5	1.2	PEEK	EPDM
PDVC0122-B73GN-M00*	1.6	0.65	0 ÷ 4.0	1.2	PEEK	FKM
PDVC0122-B74GN-M00*	1.6	0.65	0 ÷ 4.0	1.2	PEEK	EPDM
PDVC0122-C13GN-M00*	2.0	0.80	0 ÷ 3.0	1.2	PEEK	FKM
PDVC0122-C14GN-M00*	2.0	0.80	0 ÷ 3.0	1.2	PEEK	EPDM



Mod.	Orifice Ø (mm)	kv (l/min)	Min/max pressure (bar)	Max back pressure (bar)	Body material	Seal material
PDVC0122-A73GN-M00*	0.8	0.25	0 ÷ 7.0	1.2	PEEK	FKM
PDVC0122-A74GN-M00*	0.8	0.25	0 ÷ 7.0	1.2	PEEK	EPDM
PDVC0122-B33GN-M00*	1.2	0.55	0 ÷ 4.5	1.2	PEEK	FKM
PDVC0122-B34GN-M00*	1.2	0.55	0 ÷ 4.5	1.2	PEEK	EPDM
PDVC0122-B73GN-M00*	1.6	0.65	0 ÷ 4.0	1.2	PEEK	FKM
PDVC0122-B74GN-M00*	1.6	0.65	0 ÷ 4.0	1.2	PEEK	EPDM
PDVC0122-C13GN-M00*	2.0	0.80	0 ÷ 3.0	1.2	PEEK	FKM
PDVC0122-C14GN-M00*	2.0	0.80	0 ÷ 3.0	1.2	PEEK	EPDM

2/2 NC solenoid valve, electrical connection with 300mm cable

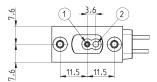


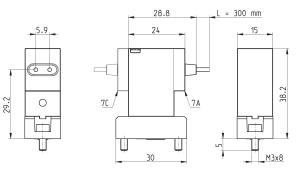
Supplied with: 1x seal 2x M3x8 UNI 5931 screws

NOTE IN THE TABLE BELOW: * to complete the code, add ELECTRICAL CONNECTION (7A or 7C options) and VOLTAGE (see CODING EXAMPLE)

NOTE IN THE DRAWING: 1 = INLET PORT 2 = OUTLET PORT







Mod.	Orifice Ø (mm)	kv (l/min)	Min/max pressure (bar)	Max back pressure (bar)	Body material	Seal material
PDVC0122-A73GN-M00*	0.8	0.25	0 ÷ 7.0	1.2	PEEK	FKM
PDVC0122-A74GN-M00*	0.8	0.25	0 ÷ 7.0	1.2	PEEK	EPDM
PDVC0122-B33GN-M00*	1.2	0.55	0 ÷ 4.5	1.2	PEEK	FKM
PDVC0122-B34GN-M00*	1.2	0.55	0 ÷ 4.5	1.2	PEEK	EPDM
PDVC0122-B73GN-M00*	1.6	0.65	0 ÷ 4.0	1.2	PEEK	FKM
PDVC0122-B74GN-M00*	1.6	0.65	0 ÷ 4.0	1.2	PEEK	EPDM
PDVC0122-C13GN-M00*	2.0	0.80	0 ÷ 3.0	1.2	PEEK	FKM
PDVC0122-C14GN-M00*	2.0	0.80	0 ÷ 3.0	1.2	PEEK	EPDM

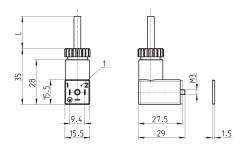


	Indus	trial stan	dard (9.4 m	ım) conne	ctor Mod. 12	5	
						SE 9.4 15.5 15.5	
Mod.	description	colour	working voltage	cable holding	tightening torque		
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm		
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm	1 = 90° adjustable connector	
125-800	connector, without electronics	black	-	PG7	0.3 Nm		

Industrial standard (9.4 mm) connector Mod. 125-... with cable



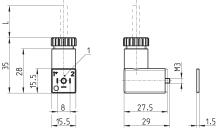
The internal rectifier circuit of the connector Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.



Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000 mm	PG7	0.3 Nm
125-571-3	moulded cable, varistor + Led	black	24 V AC/DC	3000 mm	-	0.3 Nm
125-900	pre-wired cable with voltage rectifier	black	6 V - 110 V AC/DC	2000 mm	PG7	0.3 Nm

Connector Mod. 126-... DIN EN 175 301-803-C (8 mm)

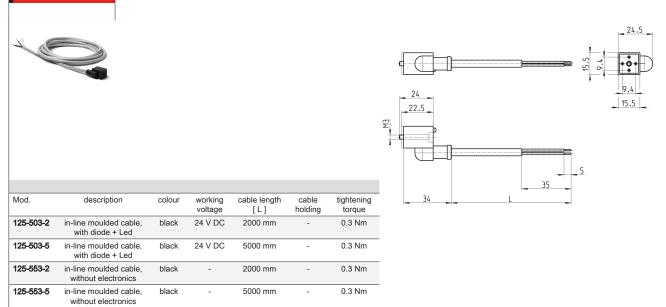
Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
126-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
126-800	connector, without electronics	black	-	-	PG7	0.3 Nm
126-701	connector, varistor + Led	transparent	24 V AC/ DC	-	PG7	0.3 Nm



1 = 90° adjustable connector

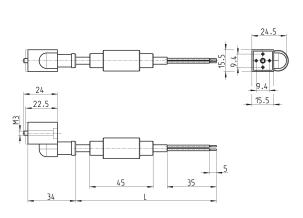
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com.

Industrial standard (9.4 mm) in-line connectors with cable



2

Industrial standard (9.4 mm) in-line connectors with bridge rectifier



Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-903-2	in-line moulded cable with voltage rectifier	black	6 V - 230 V AC/DC	2000 mm	-	0.3 Nm
125-903-5	in-line moulded cable with voltage rectifier	black	6 V - 230 V AC/DC	5000 mm	-	0.3 Nm