

Series K8 directly operated solenoid valves

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

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

3/2-way - Universal (UNI)



The universal (UNI) version enables to mix two different gaseous fluids or to select the path of the gaseous fluid in the pneumatic circuit.

- » Compact design
- » High performances
- » Manifold mounting
- » Long life
- » Version for use with oxygen available

Thanks to their particular design these valves can be used in applications where very compact solutions are required as well as high performances.

Series K8 is used to control actuators or very small devices and it is suitable for portable equipments thanks to low power consumption, reduced weight and dimensions.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 3/2 NC - 2/2 NO - 3/2 NO - 3/2 UNI

 Operation
 direct acting poppet type

 Pneumatic connections
 manifold cartridge

 Nominal diameter
 0.5 - 0.7 mm

 Nominal flow
 see kv

 Flow efficient kv (I/min)
 0.08 - 0.15

 Operation pressure
 -1 ÷ 3 ... 7 har

Operating pressure 0.08 - 0.13Operating temperature $0^{\circ}\text{C} \div 50^{\circ}\text{C}$

Media filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas

Response time (ISO 12238) ON <10 msec – OFF <10 msec

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body brass - stainless steel - PBT technopolymer

Seals FKM Internal parts stainless steel

ELECTRICAL FEATURES

Voltage 24 V DC - 12 V DC - 6 V DC - other voltages on demand

Voltage tolerance ±10% Power consumption 0.6 W Duty cycle ED 100%

Electrical connection 2 Pin 0.5 x 0.5 spacing 4 mm

Protection class IPO

Special versions available on demand To order the version for use with oxygen, please add OX1 at the end of the standard code.

C⊀ CAMOZZI

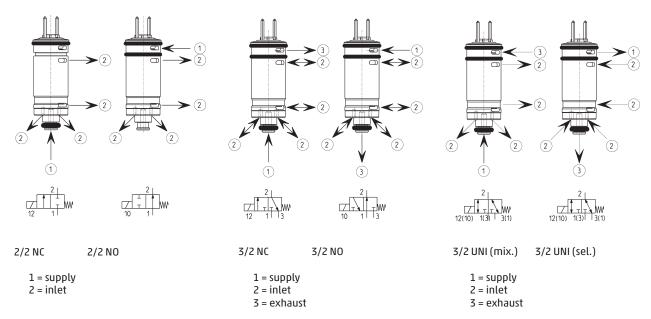


K8	0	00	-	3	0	3	-	K	2	3	
K8	SERIES										
0	BODY DESIGN: 0 = single valve										
00	NUMBER OF POSIT 00 = valve withou										
3	NUMBER OF WAYS - FUNCTIONS: 0 = single base 3 = 3-way NC 4 = 3-way NO 5 = 2-way NC 6 = 2-way NO 7 = 3-way UNI										
0	MATERIALS AND S										
3	NOMINAL DIAMETER: 3 = Ø 0.5 mm (max pressure 7 bar) 5 = Ø 0.7 mm 6 = Ø 0.5 mm (max pressure 4 bar)										
K	MATERIALS: K = stainless steel body, brass cage										
2	ELECTRICAL CONNECTION: 2 = pin interface size 4 mm										
3	VOLTAGE - POWER 1 = 6V DC - 0.6 W 2 = 12V DC - 0.6 W 3 = 24V DC - 0.6 W 5 = 5V DC - 0.6 W	I									

AVAILABLE FUNCTIONS

OPTIONS:

= standard OX1 = for use with oxygen (non volatile residual less than 550 mg/m²)



The 3/2 UNI version can be used also for 3/2 NC or 3/2 NO functions.



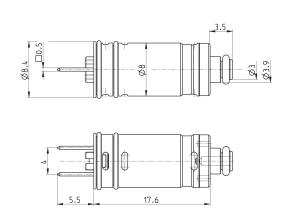
8 mm solenoid valve, 2/2-way NC, NO - 3/2 NC, NO, UNI



NOTE TO THE TABLE:

* to complete the code add VOLTAGE - POWER CONSUMPTION (see the CODING EXAMPLE)





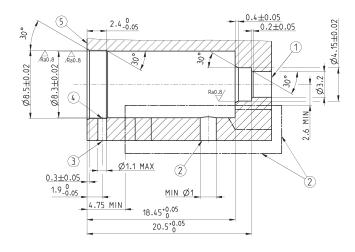
Mod.	Function	Orifice Ø (mm)	kv (l/min) 1 → 2	Qn (Nl/min) 1 → 2	kv (l/min) 2 → 3	Qn (Nl/min) 2 → 3	Min÷max pressure (bar)
K8000-503-K2*	2/2 NC	0.5	0.08	5	-	-	1 ÷ 7
K8000-506-K2*	2/2 NC	0.5	0.08	-	-	-	-1 ÷ 4
K8000-505-K2*	2/2 NC	0.7	0.15	-	-	-	-1 ÷ 3
K8000-603-K2*	2/2 NO	0.6	0.10	6.5	-	-	1 ÷ 7
K8000-303-K2*	3/2 NC	0.5	0.08	5	0.10	6.5	1 ÷ 7
K8000-306-K2*	3/2 NC	0.5	0.08	-	0.10	-	-1 ÷ 4
K8000-305-K2*	3/2 NC	0.7	0.15	-	0.10	-	-1 ÷ 3
K8000-403-K2*	3/2 NO	0.6	0.10	6.5	0.08	5	1 ÷ 7
K8000-405-K2*	3/2 NO	0.6	0.10	6.5	0.15	9.5	1 ÷ 7
K8000-703-K2*	3/2 UNI	0.5	0.08	-	0.10	=	0 ÷ 3
K8000-705-K2*	3/2 UNI	0.7	0.15	-	0.10	-	-1 ÷ 2

8 mm solenoid valve seat, 2/2-way NC, NO - 3/2 NC, NO, UNI

Note: better performances can be achieved if the valve seat holes are in line with the respective valve holes.

LEGEND: 1 = Port 1 2 = Port 2 3 = Port 3

4 = Free from burrs 5 = Surface to be aligned with the upper surface of the valve reinforcement



FUNCTION	2/2 NC	2/2 NO	3/2 NC	3/2 NO	3/2 UNI (mix.)	3/2 UNI (sel.)
PORT 1	Inlet	-	Inlet	Exhaust	Inlet	Outlet
PORT 2	Outlet	Outlet	Outlet	Outlet	Outlet	Inlet
PORT 3	-	Inlet	Exhaust	Inlet	Inlet	Outlet

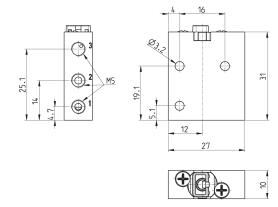
CAMOZZI Automation

Single body for Series K8 solenoid valve



Material: anodized aluminium Pneumatic connections: M5 threads

NOTE: to be used only with the electrical connector Mod. 120-J...

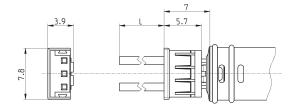


Mod. K8303/14C

Connector Mod. 120-..



Cable section: 0.25 mm²
Cable external diameter: 1.2 mm
Material for the cable insulation: PVC

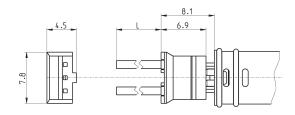


Mod.	description	colour	L = cable length (mm)	cable holding
120-803	crimped cable	white	300	crimping
120-806	crimned cable	white	600	crimping

Connector with flying leads Mod. 120-J...



Flying leads section: 0.25 mm² 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



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)



- » 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

 Function
 2/2 NC - 3/2 NC - 2/2 NO - 3/2 NO

 Operation
 pilot operated poppet type

Pneumatic connections manifold cartridge - M7 threads - on subbase with M3 screws

Nominal diameter 3.6 mm

Nominal flow 180 Nl/min (air @ 6 bar ΔP 1 bar)

 $\begin{array}{lll} \textbf{Flow coefficient kv (l/min)} & 2.8 \\ \textbf{Operating pressure} & 1 \div 7 \, \text{bar} \\ \textbf{Operating temperature} & 0 ^{\circ}\text{C} \div 50 ^{\circ}\text{C} \\ \end{array}$

Media filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas

Response time (ISO 12238) ON <15 msec - OFF <15 msec

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body brass - stainless steel - PBT technopolymer - aluminium

Seals FKM Internal parts stainless steel

ELECTRICAL FEATURES

Voltage 24 V DC - 12 V DC - 6 V DC - other voltages on demand

Voltage tolerance ±10% Power consumption 0.6 W Duty cycle ED 100%

Electrical connection 2 Pin 0.5 x 0.5 pitch 4mm - JST connector with flying leads L = 300mm

Protection class IP00

Special versions available on demand

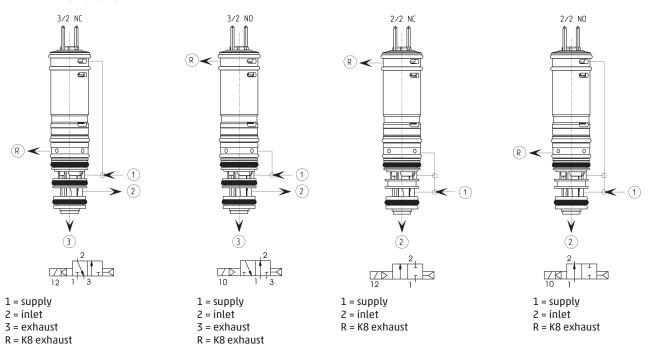


CODING EXAMPLE

K8B C5 4 00 - D4 3 2 N - N 00 1A C003

K8B	SERIES
C5	BODY DESIGN: CO = body with interface for subbase C3 = threaded body C5 = cartridge
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 03 = M7 18 = K8B-type interface, 2-way 19 = K8B-type interface, 3-way
D4	NOMINAL DIAMETER: D4 = Ø 3.6mm
3	SEALS MATERIALS: 3 = FKM
2	BODY MATERIALS: 1 = aluminium 2 = brass
N	MANUAL OVERRIDE: N = not foreseen
N	FIXING ACCESSORIES: N = not foreseen P = screws for plastics M = screws for metal
00	OPTION: 00 = no option
1A	ELECTRICAL CONNECTION: 1A = only pins, pitch 4mm 1B = JST connector, pitch 4mm
C003	VOLTAGE - POWER CONSUMPTION: CO01 = 6V DC (0.6 W) CO02 = 12V DC (0.6 W) CO03 = 24V DC (0.6 W)

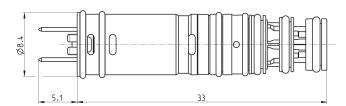
AVAILABLE FUNCTIONS



SERIES K8B SOLENOID VALVES

8 mm solenoid valve, 2/2 and 3/2-way NC and NO



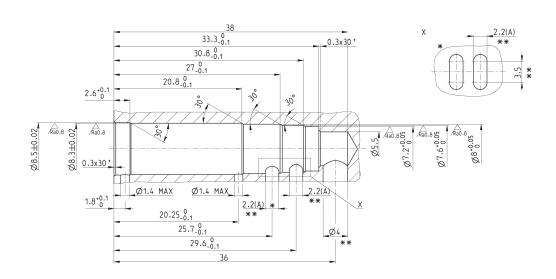


Mod.	Function	NOTE
K8BC5100-D432N-N001A*	2/2 NC	* enter the required voltage (see the coding example)
K8BC5200-D432N-N001A*	2/2 NO	* enter the required voltage (see the coding example)
K8BC5400-D432N-N001A*	3/2 NC	* enter the required voltage (see the coding example)
K8BC5500-D432N-N001A*	3/2 NO	* enter the required voltage (see the coding example)

8 mm solenoid valve seat, 2/2 and 3/2-way NC and NO

* = FOR THE 2/2 VERSION THIS OPERATION HAS NOT TO BE PERFORMED

*** = TO ACHIEVE DECLARED PERFORMANCE IT IS NECESSARY TO HAVE A PASSAGE SECTION FOR THE SUPPLY AND EXHAUST PORTS OF 12.5 mm², WHICH IS EQUAL TO A Ø4 mm



_Ø3.2

 \bigcirc

39.5

__ M7

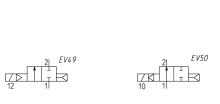
C∢ CAMOZZI

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



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





EV50

Body with threaded ports, 3/2-way NC and NO

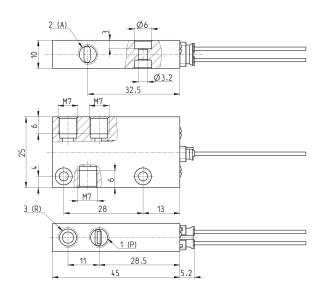


K8BC3203-D431N-N001B*

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

2/2 NO





* enter the required voltage (see the coding example)

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)

SERIES K8B SOLENOID VALVES

Body for subbase, 2/2-way NC and NO

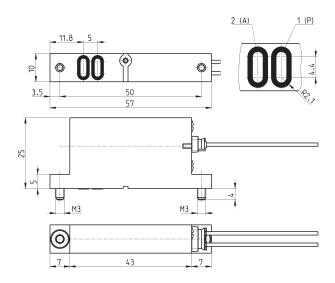


Supplied with: 1x connector with flying leads Mod. 120-J803 (300mm) 2x interface seals 2x screws M3x6 UNI 5931 (for M version) ОΓ 2x screws M3x6 UNI 10227

(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)
K8RC0218-D431N-*001R**	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



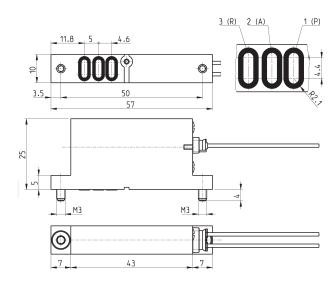
Supplied with: 1x connector with flying leads Mod. 120-J803 (300mm) 3x interface seals 2x screws M3x6 UNI 5931 (for M version)

οг

2x screws M3x6 UNI 10227 (for P version)







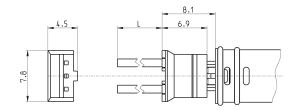
Mod.	Function	Symbol	NOTE
K8BC0419-D431N-*001B**	3/2 NC	EV51	* enter the type of screws - ** enter the required voltage (see the coding example)
K8BC0519-D431N-*001B**	3/2 NO	EV52	* enter the type of screws - ** enter the required voltage (see the coding example)

ES CAMOZZI

Connector with flying leads Mod. 120-J...



Flying leads section: 0.25 mm² 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

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

directly operated with fluid separation membrane Operation **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

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

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%

2 Pins 0.5 x 0.5 spacing 4 mm **Electrical connection**

Protection class IP00





CODING EXAMPLE

K8DV	C	00	-	5	0	5	-	G	2	3
------	---	----	---	---	---	---	---	---	---	---

K8DV	SERIES
С	TYPE OF BODY: C = cartridge version O = flanged version
00	NUMBER OF POSITIONS: 00 = valve without housing
5	NUMBER OF WAYS - FUNCTIONS: 5 = 2-way NC
0	SEAL MATERIAL: 0 = FKM 4 = EPDM
5	NOMINAL DIAMETER: 5 = Ø 0.7 mm
G	BODY MATERIAL: G = PEEK
2	ELECTRICAL CONNECTION: 2 = interface pin size 4 mm
3	VOLTAGE - POWER CONSUMPTION: 1 = 6V DC - 0.6 W 2 = 12V DC - 0.6 W 3 = 24V DC - 0.6 W 4 = 3V DC - 0.6 W 5 = 5V DC - 0.6 W

SERIES K8DV SOLENOID VALVES

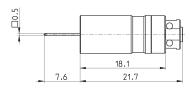
Solenoid valve with fluid separation membrane, cartridge version



DRAWING LEGEND: 1 = supply 2 = inlet

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







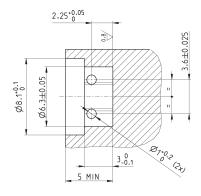


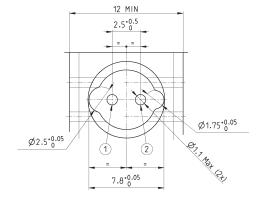
Mod.	Nominal diameter Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seal material
K8DVC00-505-G2*	0.7	0.1	0 ÷ 2.1	PEEK	FKM
K8DVC00-545-G2*	0.7	0.1	0 ÷ 2.1	PEEK	EPDM

Solenoid valve seat, cartridge version

DRAWING LEGEND:

1 = supply 2 = inlet





CAMOZZI Automation

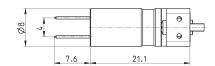
Solenoid valve with fluid separation membrane, flanged version

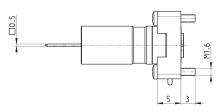


DRAWING LEGEND: 1 = supply 2 = inlet

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







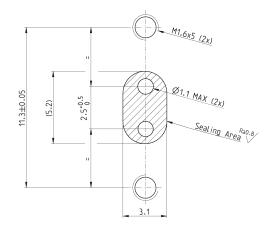


Mod.	Nominal diameter Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seal material
K8DV000-505-G2*	0.7	0.1	0 ÷ 2.1	PEEK	FKM
K8DV000-545-G2*	0.7	0.1	0 ÷ 2.1	PEEK	EPDM

Mounting pad of the flanged solenoid valve

DRAWING LEGEND:

1 = supply 2 = inlet

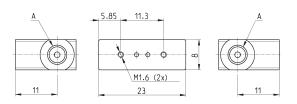


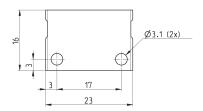
SERIES K8DV SOLENOID VALVES

Single subbase for flanged version



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



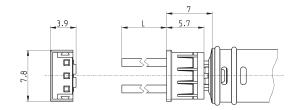


Mod.	A (pneumatic connections)	
K8DV0001-1/4	1/4 - 28 UNF	
K8DV0001-M5	M5	

Connector Mod. 120-..



Cable section: 0.25 mm²
Cable external diameter: 1.2 mm
Material for the cable insulation: PVC

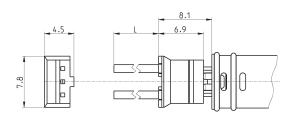


Mod.	description	colour	L = cable length (mm)	cable holding
120-803	crimped cable	white	300	crimping
120-806	crimped cable	white	600	crimping

Connector with flying leads Mod. 120-J...



Flying leads section: 0.25 mm² 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

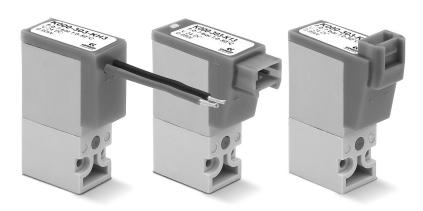


Series K directly operated solenoid valves

New models

2/2-way - Normally Closed (NC)

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



- » Low power consumption
- » Compact design
- » Version for use with oxygen available

The Series K directly operated solenoid valves can be mounted on single sub-bases or manifolds.

Thanks to the same mounting pad 2/2-way and 3/2-way versions can be installed on the same manifold.

The manual override is available only for the 3/2-way versions.

GENERAL DATA

TECHNICAL FEATURES

 Function
 2/2 NC - 3/2 NC - 3/2 NO

 Operation
 direct acting poppet type

 Pneumatic connections
 on subbase by means of screws

Media filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas

Response time ON <10 msec – OFF <10 msec

Manual override monostable button (for 3/2 version only)

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PBT technopolymer
Seals NBR or FKM
Internal parts stailess steel

ELECTRICAL FEATURES

Voltage 24 V DC - 12 V DC - 6 V DC - other voltages on demand

 $\begin{array}{lll} \mbox{Voltage tolerance} & \pm 10\% \\ \mbox{Power consumption} & 1 \ \mbox{W} \\ \mbox{Duty cycle} & \mbox{ED } 100\% \\ \end{array}$

Electrical connection connector - thin cabels L = 300 mm

Protection class IP50

Special versions available on demand



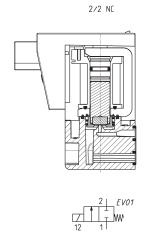
SERIES K SOLENOID VALVES

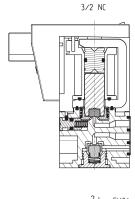
CODING EXAMPLE

К	0	00	_	3	0	3	_	К	2	3	
	_	00		_	_	_		••	_		L

SERIES K **BODY DESIGN:** 0 0 = single sub-base (only M5) or interface 1 = manifold NUMBER OF POSITIONS: 00 00 = interface 01 = single base (only M5) 02 ÷ 99 = manifold number of positions NUMBER OF WAYS - FUNCTIONS: 3 0 = manifold or single base 3 = 3-way NC 5 = 3-way NC electric part revolved by 180° 4 = 3-way NO 6 = 3-way NO electric part revolved by 180° 1 = 2-way NC 1 = 2-way NC electric part revolved by 180° PORTS: 0 0 = interface 2 = M5 side outlets NOMINAL DIAMETER: 3 2 = Ø 0.6 mm 3 = Ø 0.65 mm 5 = Ø 1.0 mm MATERIALS: K F = PBT body, FKM poppet K = PBT body, HNBR poppet (available for 3/2 version only) ELECTRICAL CONNECTION: 2 1 = 90° connection with protection and led 2 = 90° connection with protection 3 = 90° connection B = in-line connection with protection and led F = cable (300mm) with protection and led G = cable (300mm) with protection H = cable only (300mm) C = in-line connection with protection D = in-line connection SOLENOID VOLTAGE: 3 1 = 6V DC - 1W 2 = 12V DC - 1W 3 = 24V DC - 1W = with screws for mounting on plastics M = with screws for mounting on metal OPTIONS: = standard OX1 = for use with oxygen (non volatile residual less than 550 mg/m²) OX2 = for use with oxygen (non volatile residual less than 33 mg/m²)

Series K solenoid valve, 2/2- and 3/2-way



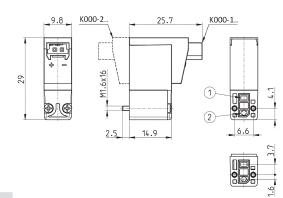


€ CAMOZZI

2/2-way NC solenoid valve (90° electrical connection)



Supplied with:
1x interface seal
2x screws M1.6x16
(UNI 10227 for mounting on plastics or
UNI 7687 for mounting on metal)



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)
K000-102-F1*	2/2 NC	0.6	0.15	10	0 ÷ 7
K000-102-F2*	2/2 NC	0.6	0.15	10	0 ÷ 7
K000-102-F3*	2/2 NC	0.6	0.15	10	0 ÷ 7
K000-105-F1*	2/2 NC	1	0.30	-	0 ÷ 3
K000-105-F2*	2/2 NC	1	0.30	-	0 ÷ 3
K000-105-F3*	2/2 NC	1	0.30	-	0 ÷ 3

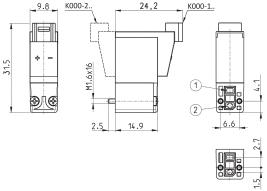


* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)

2/2-way NC solenoid valve (in-line electrical connection)



Supplied with:
1x interface seal
2x screws M1.6x16
(UNI 10227 for mounting on plastics or
UNI 7687 for mounting on metal)



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)
K000-102-FB*	2/2 NC	0.6	0.15	10	0 ÷ 7
K000-102-FC*	2/2 NC	0.6	0.15	10	0 ÷ 7
K000-102-FD*	2/2 NC	0.6	0.15	10	0 ÷ 7
K000-105-FB*	2/2 NC	1	0.30	-	0 ÷ 3
K000-105-FC*	2/2 NC	1	0.30	-	0 ÷ 3
K000-105-FD*	2/2 NC	1	0.30	_	0 ÷ 3

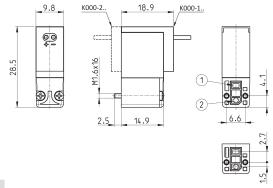


* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)

2/2-way NC solenoid valve (with cable 300 mm)



Supplied with: 1x interface seal 2x screws M1.6x16 (UNI 10227 for mounting on plastics or UNI 7687 for mounting on metal)



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)
K000-102-FF*	2/2 NC	0.6	0.15	10	0 ÷ 7
K000-102-FG*	2/2 NC	0.6	0.15	10	0 ÷ 7
K000-102-FH*	2/2 NC	0.6	0.15	10	0 ÷ 7
K000-105-FF*	2/2 NC	1	0.30	-	0 ÷ 3
K000-105-FG*	2/2 NC	1	0.30	-	0 ÷ 3
K000-105-FH*	2/2 NC	1	0.30	-	0 ÷ 3



* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)

3/2-way NC solenoid valve (90° electrical connection)



Supplied with: 1x interface seal 2x screws M1.6x16 (UNI 10227 for mounting on plastics or UNI 7687 for mounting on metal)

	9,8	K000-5	\	26,2	K00	0-3
30	-	\	M1,6×16			
•		9,3			3—2—	5,8
			2,5 1	4,9		2,7
						2,5

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)
K000-303-K1*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-F1*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-K2*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-F2*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-K3*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-F3*	3/2 NC	0.6	0.12	8	0 ÷ 7

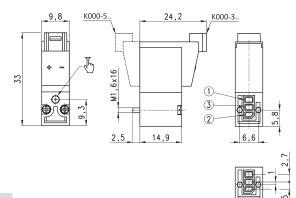


* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)

3/2-way NC solenoid valve (in-line electrical connection)



Supplied with: 1x interface seal 2x screws M1.6x16 (UNI 10227 for mounting on plastics or UNI 7687 for mounting on metal)



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)
K000-303-KB*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-FB*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-KC*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-FC*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-KD*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-FD*	3/2 NC	0.6	0.12	8	0 ÷ 7



18,9

K000-3..

1

3 2

* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)

9,8

Ø

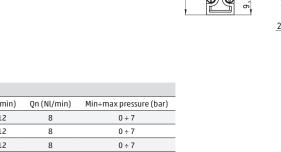
K000-5.

,6×16

3/2-way NC solenoid valve (with cable 300 mm)



Supplied with: 1x interface seal 2x screws M1.6x16 (UNI 10227 for mounting on plastics or UNI 7687 for mounting on metal)



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)
K000-303-KF*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-FF*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-KG*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-FG*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-KH*	3/2 NC	0.6	0.12	8	0 ÷ 7
K000-303-FH*	3/2 NC	0.6	0.12	8	0 ÷ 7



* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)

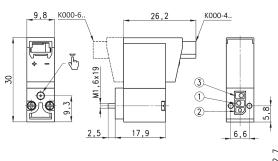
CAMOZZI

3/2-way NO solenoid valve (90° electrical connection)



Supplied with:

1x interface for NO version
(connections 1 and 3 are inverted)
2x interface seals for NO version
2x screws M1.6x19
(UNI 10227 for mounting on plastics or
UNI 7687 for mounting on metal)
If no interface is needed, use screws M1.6x16 Mod.
K303/61 for plastics or K303/61M for metal.



6,6	T
0 -	2,5

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)
K000-403-K1*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-F1*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-K2*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-F2*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-K3*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-F3*	3/2 NO	0.8	0.20	-	0 ÷ 5



* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)

3/2-way NO solenoid valve (in-line electrical connection)



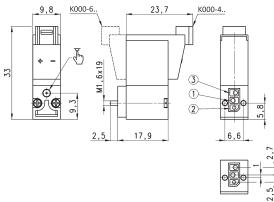
Supplied with:

1x interface for NO version
(connections 1 and 3 are inverted)

2x interface seals for NO version

2x screws M1.6x19
(UNI 10227 for mounting on plastics or
UNI 7687 for mounting on metal)

If no interface is needed, use screws M1.6x16 Mod.
K303/61 for plastics or K303/61M for metal.



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)
K000-403-KB*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-FB*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-KC*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-FC*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-KD*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-FD*	3/2 NO	0.8	0.20	-	0 ÷ 5



* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)

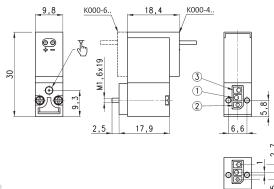
3/2-way NO solenoid valve (with cable 300 mm)



Supplied with:
1x interface for NO version
(connections 1 and 3 are inverted)
2x interface seals for NO version
2x screws M1.6x19
(UNI 10227 for mounting on plastics or
UNI 7687 for mounting on metal)

If no interface is needed, use screws M1.6x16 Mod.

K303/61 for plastics or K303/61M for metal.



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)
K000-403-KF*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-FF*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-KG*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-FG*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-KH*	3/2 NO	0.8	0.20	-	0 ÷ 5
K000-403-FH*	3/2 NO	0.8	0.20	-	0 ÷ 5



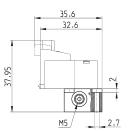
* add VOLTAGE - POWER CONSUMPTION (see CODING EXAMPLE)

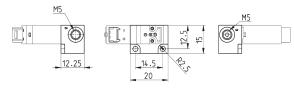
SERIES K SOLENOID VALVES

Single sub-base



Note: use solenoid valves with mounting screws on metal interfaces (see codification).





Mod. **K001-02**

Manifold Mod. K1**-02



** Number of positions
With side outlets and conveyed inlet and exhaust.

Note: use solenoid valves with mounting screws on metal interfaces (see codification).

19.5			
-	Ø3.5		7
24.5	12.5 10.5 10.5	20 39.1	
4.5	47.5	5	-
	56.5	12	45.2

Ø5.8

Mod. A B Number of ports K102-02 35.5 26.5 2 K103-02 46 37 3 K104-02 56.5 47.5 4 K105-02 67 58 5 K106-02 77.5 68.5 6 K107-02 88 79 7 K108-02 98.5 89.5 8 K109-02 109 100 9 K110-02 119.5 110.5 10				
K103-02 46 37 3 K104-02 56.5 47.5 4 K105-02 67 58 5 K106-02 77.5 68.5 6 K107-02 88 79 7 K108-02 98.5 89.5 8 K109-02 109 100 9	Mod.	A	В	Number of ports
K104-02 56.5 47.5 4 K105-02 67 58 5 K106-02 77.5 68.5 6 K107-02 88 79 7 K108-02 98.5 89.5 8 K109-02 109 100 9	K102-02	35.5	26.5	2
K105-02 67 58 5 K106-02 77.5 68.5 6 K107-02 88 79 7 K108-02 98.5 89.5 8 K109-02 109 100 9	K103-02	46	37	3
K106-02 77.5 68.5 6 K107-02 88 79 7 K108-02 98.5 89.5 8 K109-02 109 100 9	K104-02	56.5	47.5	4
K107-02 88 79 7 K108-02 98.5 89.5 8 K109-02 109 100 9	K105-02	67	58	5
K108-02 98.5 89.5 8 K109-02 109 100 9	K106-02	77.5	68.5	6
K109-02 109 100 9	K107-02	88	79	7
	K108-02	98.5	89.5	8
K110-02 119.5 110.5 10	K109-02	109	100	9
	K110-02	119.5	110.5	10

Excluder tap



Supplied with:

1x excluder tap

1x interface seal

2x screws M1.6x6 UNI 7687 (mounting on metal)



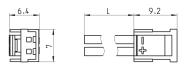


Mod.

C CAMOZZI

Connector 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



Series KN and KN High Flow directly operated solenoid valves

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





- » Low energy consumption
- » Compact design
- » High Flow
- » ISO 15218 Interface
- » Version for use with oxygen available

Thanks to its low energy consumption and to its compact design, the KN miniaturized solenoid valve can be used in industrial and scientific applications.

The Series KN directly operated solenoid valves are available also in the high flow version (KN High Flow).

GENERAL DATA

TECHNICAL FEATURES

Function3/2 NC - 3/2 NO - 3/2 UNIOperationdirect acting poppet type

Pneumatic connections on subbase with ISO 15218 interface by means of screws

Nominal diameter 0.65 ... 1.1 mm

Nominal flow 10 ... 25 Nl/min (air @ 6 bar ΔP 1 bar)

 $\begin{array}{lll} \mbox{Flow coefficient kv (l/min)} & 0.15 \dots 0.39 \\ \mbox{Operating pressure} & 0 \div 3 \dots 7 \mbox{ bar} \\ \mbox{Operating temperature} & 0 \mbox{°C} \div 50 \mbox{°C} \\ \end{array}$

Media filtered compressed air, unlubricated, according to ISO 8573-1 class 3.4.3, inert gas
Response time ON <10 msec - OFF <10 msec

 Response time
 ON <10 msec - OFF <1</td>

 Manual override
 monostable button

 Installation
 in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PBT technopolymer
Seals FKM, NBR
Internal parts stainless steel

ELECTRICAL FEATURES

Voltage5 ... 24 V DC - other voltages on demandVoltage tolerance1.3/0.25 ... 4/1 W (inrush/holding)

Power consumption ED 100%
Duty cycle connector
Electrical connection IP50
Protection class

Special versions available on demand



CODING EXAMPLE

ΚN	0	00	_	3	0	3	_	K	1	3	
IZIN	U	UU	_	5	U	5	_	l V)	

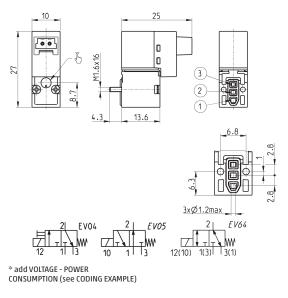
KN	0 00 - 3 0 3 - K 1 3								
KN	SERIES								
0	BODY DESIGN: 0 = single valve								
00	NUMBER OF POSITIONS: 00 = interface								
3	NUMBER OF WAYS - FUNCTIONS: 3 = 3/2-way NC 4 = 3/2-way NO 7 = 3/2-way UNI								
0	PORTS: 0 = single valve								
3	NOMINAL DIAMETER / MAX PRESSURE: 3 = Ø 0.65 mm 5 = Ø 1.1 mm - max pressure 7 bar 6 = Ø 1.1 mm - max pressure 3 bar								
K	MATERIALS: F = PBT body, FKM poppet seal, FKM other seals K = PBT body, FKM poppet seal, NBR other seals								
1	ELECTRICAL CONNECTION: 1 = 90° connection with protection and led B = in-line connection with protection and led								
3	VOLTAGE - POWER CONSUMPTION: 2 = 12 V DC - 1.3/0.25 W 3 = 24 V DC - 1.3/0.25 W 5 = 5 V DC - 4/1 W 6 = 6 V DC - 4/1 W 7 = 12 V DC - 4/1 W 8 = 24 V DC - 4.1 W								
	FIXING: = with screws for mounting on plastics M = with screws for mounting on metal								
	OPTIONS: = standard OX2 = for use with oxygen (non volatile residual less than 33 mg/m²)								

3/2-way solenoid valve - 90° electrical connection



Supplied with: 1x interface seal 2x screws M1.6x16 UNI 10227 (fixing for plastics, standard) or 2x screws M1.6x16 UNI 7687 (fixing for metal, M option)

Function	Orifice Ø (mm)	kv (l/ min)	Qn (Nl/ min)	Min÷max pressure (bar)	Power consumption (W)	Symb.
3/2 NC	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV04
3/2 NC	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV04
3/2 NC	1.1	0.39	25	3 ÷ 7	4/1	EV04
3/2 NC	1.1	0.39	-	0 ÷ 3	4/1	EV04
3/2 NO	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV05
3/2 UNI	1.1	0.39	-	0 ÷ 1.5	4/1	EV64
	3/2 NC 3/2 NC 3/2 NC 3/2 NC 3/2 NO	(mm) 3/2 NC 0.65 3/2 NC 0.65 3/2 NC 1.1 3/2 NC 1.1 3/2 NO 0.65	(mm) min) 3/2 NC 0.65 0.15 3/2 NC 0.65 0.15 3/2 NC 1.1 0.39 3/2 NC 1.1 0.39 3/2 NO 0.65 0.15	(mm) min) min) 3/2 NC 0.65 0.15 10 3/2 NC 0.65 0.15 10 3/2 NC 1.1 0.39 25 3/2 NC 1.1 0.39 - 3/2 NO 0.65 0.15 10	(mm) min) min) pressure (bar) 3/2 NC 0.65 0.15 10 0 ÷ 7 3/2 NC 0.65 0.15 10 0 ÷ 7 3/2 NC 1.1 0.39 25 3 ÷ 7 3/2 NC 1.1 0.39 - 0 ÷ 3 3/2 NO 0.65 0.15 10 0 ÷ 7	(mm) min) min) pressure (bar) consumption (W) 3/2 NC 0.65 0.15 10 0 ÷ 7 1.3 / 0.25 3/2 NC 0.65 0.15 10 0 ÷ 7 1.3 / 0.25 3/2 NC 1.1 0.39 25 3 ÷ 7 4 / 1 3/2 NC 1.1 0.39 - 0 ÷ 3 4 / 1 3/2 NO 0.65 0.15 10 0 ÷ 7 1.3 / 0.25



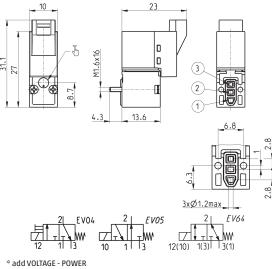


3/2-way solenoid valve - in-line electrical connection



Supplied with: 1x interface seal 2x screws M1.6x16 UNI 10227 (fixing for plastics, standard) 2x screws M1.6x16 UNI 7687 (fixing for metal, M option)

Mod.	Function	Orifice Ø (mm)	kv (l/ min)	Qn (Nl/ min)	Min÷max pressure (bar)	Power consumption (W)	Symb.
KN000-303-KB*	3/2 NC	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV04
KN000-303-FB*	3/2 NC	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV04
KN000-305-FB*	3/2 NC	1.1	0.39	25	3 ÷ 7	4/1	EV04
KN000-306-FB*	3/2 NC	1.1	0.39	-	0 ÷ 3	4/1	EV04
KN000-403-FB*	3/2 NO	0.65	0.15	10	0 ÷ 7	1.3 / 0.25	EV05
KN000-706-FB*	3/2 UNI	1.1	0.39	-	0 ÷ 1.5	4/1	EV64

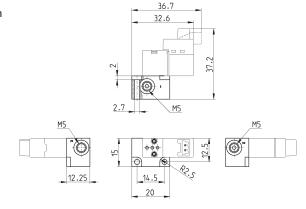


CONSUMPTION (see CODING EXAMPLE)

Single sub-base



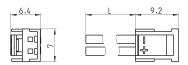
Note: use solenoid valves with mounting screws on metal interfaces (see codification).



Mod. KN01-02

Connector Mod. 121-8..



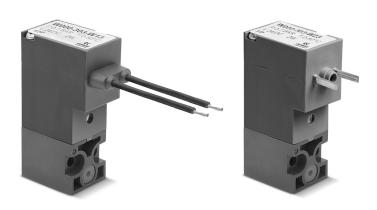


Mod.	description	colour	L = cable length (mm)	cable holding
121-803	crimped cable	black	300	crimping
121-806	crimped cable	black	600	crimping
121-810	crimped cable	black	1000	crimping
121-830	crimped cable	black	3000	crimping



Series W directly operated solenoid valves

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



- » Can be mounted on a single base (M5 connections) or on manifold (M5 connections or cartridge Ø 3 and 4).
- » Electrical connection with cables or in compliance to DIN EN 175 301-803-C standard

Series W directly operated solenoid valves are available as 3/2-way either NC or NO. Both versions can be mounted on single sub-bases or manifolds and they are equipped with a manual override which make the plants setting easier.

GENERAL DATA

TECHNICAL FEATURES

Function 3/2 NC - 3/2 NO Operation direct acting poppet type

Pneumatic connections on subbase with ISO 15218 interface by means of screws

Nominal diameter 0.8 ... 1.5 mm

Nominal flow 14 ... 35 Nl/min (air @ 6 bar ΔP 1 bar)

 $\begin{array}{lll} \text{Flow coefficient kv (l/min)} & 0.23 \dots 0.54 \\ \text{Operating pressure} & 0 \div 5 \dots 10 \text{ bar} \\ \text{Operating temperature} & 0^{\circ}\text{C} \div 50^{\circ}\text{C} \\ \end{array}$

Media filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas

Response time (ISO 12238)

Manual override
Installation

ON <10 msec - OFF <15 msec monostable button in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PBT technopolymer
Seals PU, NBR, (FKM on demand)

Internal parts stainless steel

ELECTRICAL FEATURES

Voltage 12 V DC - 24 V DC - 48 V DC

Voltage tolerance ±10%

Power consumption 2 W - 1 W (24 V DC only)

Duty cycle ED 100%

Electrical connection with connector DIN EN 175 301-803-C (8 mm) - cables L = 300 mm

Protection class IP65 with connector

Special versions available on demand

0

3



CODING EXAMPLE

W 0 00 - 3 0 3 - W 2 3
--

SERIES W **BODY DESIGN:** 0 0 = single sub-base (only M5) or interface 1 = single manifold 2 = double manifold

NUMBER OF POSITIONS: 00 = interface 01 = single base (M5 only) 02 ÷ 99 = manifold number of positions

NUMBER OF WAYS - FUNCTIONS: 3 0 = manifold or single sub-base 3 = 3-way NC

5 = 3 -way NO 5 = 3-way NO electric part revolved by 180° 6 = 3-way NO electric part revolved by 180° VALVE PORTS:

MANIFOLD PORTS (for Series W, P and PN):

2 = M5 side 3 = tube ø 3 side

4 = tube ø 4 side 6 = M5 rear ports 7 = Ø 3 tube rear ports 8 = Ø 4 tube rear ports

NOMINAL DIAMETER - MAX PRESSURE 1 = Ø 0,8 (1W) 10 bar (NC) 24V only 3 = Ø 1,5 (2W) 7 bar (NC) 5 bar (NO) 3 5 = Ø 1,1 NC (2W) 10 bar (NC) Ø 0,9 NO (2W) 10 bar (NO)

MATERIALS: W = technopolymer PBT body, FKM poppet seal, other seals in NBR (FKM on demand) W

ELECTRICAL CONNECTION: 2 1 = cables (L = 300 mm) 2 = DIN EN 175 301-803-C (8 mm)

SOLENOID VOLTAGE: 2 = 12V DC

3 = 24V DC 4 = 48V DC

FIXING:

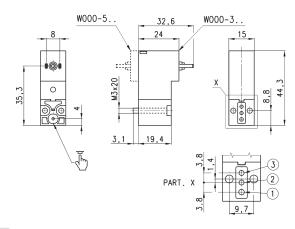
= with screws for metal (standard) P = with screws for plastics

€ CAMOZZI

3/2-way NC solenoid valve, DIN EN 175 301-803-C (8 mm)



Supplied with: 1x interface seal 2x screws M3x20 UNI 8112 (fixing for metal, standard) 2x screws M3x23 UNI 10227 (fixing for plastics, P option)



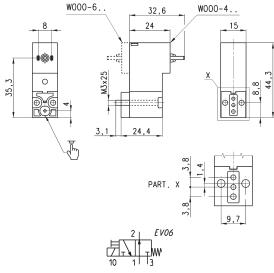
Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)
W000-305-W23	1.1	0.39	25	0 ÷ 10
W000-303-W23	1.5	0.54	35	0 ÷ 7
W000-305-W24	1.1	0.39	25	0 ÷ 10
W000-303-W24	1.5	0.54	35	0 ÷ 7



3/2-way NO solenoid valve, DIN EN 175 301-803-C (8 mm)



Supplied with: 1x interface for NO version (connections 1 and 3 are inverted) 2x interface seals 2x screws M3x25 UNI 8112 (for standard version)

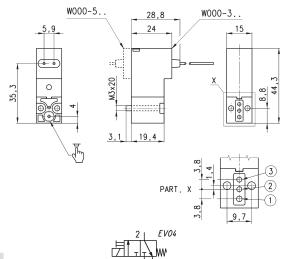


Mod. Orifice Ø (mm) kv (l/min) Qn (Nl/min) Pressure min-max (t W000-405-W23 0.9 0.23 15 0 ÷ 10	
W000-405-W23 0.9 0.23 15 0÷10	(bar)
W000-403-W23 1.5 0.39 - 0÷5	
W000-405-W24 0.9 0.23 15 0 ÷ 10	
W000-403-W24 1.5 0.39 - 0 ÷ 5	

3/2-way NC solenoid valve with cables of 300mm



Supplied with: 1x interface seal 2x screws M3x20 UNI 8112 (fixing for metal, standard) 2x screws M3x23 UNI 10227 (fixing for plastics, P option)

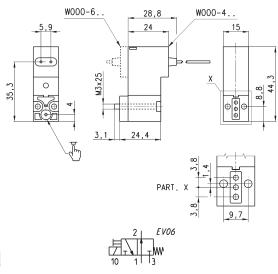


Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)
W000-305-W13	1.1	0.39	25	0 ÷ 10
W000-303-W13	1.5	0.54	35	0 ÷ 7

3/2-way NO solenoid valve with cables of 300mm



Supplied with:
1x interface for NO version
(connections 1 and 3 are inverted)
2x interface seals
2x screws M3x25 UNI 8112 (for standard version)



Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)
W000-405-W13	0.9	0.23	15	0 ÷ 10
W000-403-W13	1.5	0.39	25	0 ÷ 5

Single manifold with rear outlets



7 L1 7	29.7
111 L3 L3	2 1 1 2 2 5 A A

DIMENSIONS										
Mod.	N° Valves	L	L1	L2	L3	1 (P)	3 (R)			
P102-0*	2	53	39	18,5	16	G1/8	G1/8			
P103-0*	3	69	55	18,5	16	G1/8	G1/8			
P104-0*	4	85	71	18,5	16	G1/8	G1/8			
P105-0*	5	101	87	18,5	16	G1/8	G1/8			
P106-0*	6	117	103	18,5	16	G1/8	G1/8			

* = see the type of PORTS in the CODING EXAMPLE TABLE.

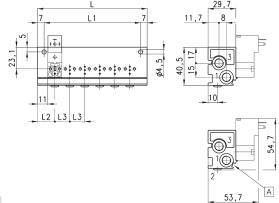
A = groove for electric connection identification

55,5

Single manifold with front outlets



This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520.



DIMENSIONS									
Mod.	Nrvalves	L	L1	L2	L3	1 (P)	3 (R)		
P102-0*	2	53	39	18,5	16	G1/8	G1/8		
P103-0*	3	69	55	18,5	16	G1/8	G1/8		
P104-0*	4	85	71	18,5	16	G1/8	G1/8		
P105-0*	5	101	87	18,5	16	G1/8	G1/8		
P106-0*	6	117	103	18,5	16	G1/8	G1/8		

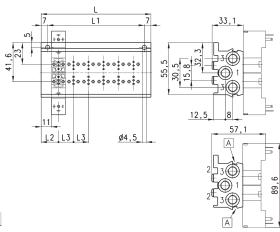
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification

€ CAMOZZI

Double sided manifold with rear outlets





DIMENSIONS										
Mod.	Nrvalves	L	L1	L2	L3	1 (P)	3 (R)			
P204-0*	4	53	39	18,5	16	G1/8	G1/8			
P206-0*	6	69	55	18,5	16	G1/8	G1/8			
P208-0*	8	85	71	18,5	16	G1/8	G1/8			
P210-0*	10	101	87	18,5	16	G1/8	G1/8			
P212-0*	12	117	103	18,5	16	G1/8	G1/8			

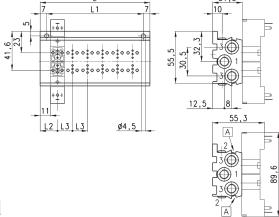
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification

Double sided manifold with front outlets



This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520.



DIMENSIONS										
Mod.	Nrvalves	L	LI	L2	L3	1 (P)	3 (R)			
P204-0*	4	53	39	18,5	16	G1/8	G1/8			
P206-0*	6	69	55	18,5	16	G1/8	G1/8			
P208-0*	8	85	71	18,5	16	G1/8	G1/8			
P210-0*	10	101	87	18,5	16	G1/8	G1/8			
P212-0*	12	117	103	18,5	16	G1/8	G1/8			

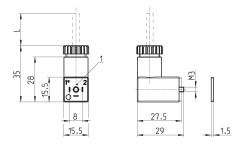
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification

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



To be used in all DC valves with voltages from 6 to 110 V.



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



Series P directly operated solenoid valves

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





» Can be mounted on a single base (M5 connections) or on manifold (M5 connections or cartridge Ø 3 and 4).

Please note that all Series P solenoid valves are supplied with direct current (DC).

To operate in alternating current (AC), it is necessary to use the connector with bridge rectifier Mod. 125-900.

ailable as 3/2-way, either NC or NO.

Series P directly operated mini-solenoid valves are available as 3/2-way, either NC or NO. Both versions can be mounted on single bases or on manifolds and they are equipped with a manual override which makes the plants setting easier.

GENERAL DATA

TECHNICAL FEATURES

 Function
 3/2 NC - 3/2 NO

 Operation
 direct acting poppet type

Pneumatic connections on subbase with ISO 15218 interface by means of screws

Nominal diameter 0.8 ... 1.5 mm

Nominal flow 14 ... 35 Nl/min (air @ 6 bar ΔP 1 bar)

 $\begin{array}{lll} \textbf{Flow coefficient kv (l/min)} & 0.21 \dots 0.54 \\ \textbf{Operating pressure} & 0 \div 3 \dots 10 \ \text{bar} \\ \textbf{Operating temperature} & 0^{\circ}\text{C} \div 50^{\circ}\text{C} \\ \end{array}$

Media filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas

Response time (ISO 12238)

Manual override
Installation

ON <10 msec - OFF <15 msec monostable button in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PBT technopolymer
Seals FKM, NBR (FKM on demand)

Internal parts stainless steel

ELECTRICAL FEATURES

Voltage 12 ... 110 V DC - 24 ... 110 V AC 50/60 Hz

Voltage tolerance ±10%

Power consumption 2 W - 1 W (24 V DC only)

Duty cycle ED 100%

Electrical connection with industrial standard connector (9.4 mm)

Protection class IP65 with connector

Special versions available on demand

€ CAMOZZI



Р	0	00	_	3	0	3	-	P	5	3	
	U	00			U						

SERIES P

BODY DESIGN: 0

- 0 = single sub-base (M5 only) or interface
- 1 = single manifold 2 = double sided manifold
- NUMBER OF POSITIONS:
 - 00 = interface
 - 01 = single base (M5 only) 02 ÷ 99 = manifold number of positions
- NUMBER OF WAYS FUNCTIONS: 3
- 0 = manifold or single base 3 = 3-way NC
- 4 = 3-way NO 5 = 3-way NC electric part revolved by 180°
 - 6 = 3-way NO electric part revolved by 180°
- VALVE PORTS: 0

0 = interface (for single valve only)

MANIFOLD PORTS (for Series W, P and PN):

- 2 = M5 side port 3 = Ø 3 tube side port
- 4 = Ø 4 tube side port 6 = M5 rear ports
- 7 = ø 3 tube rear ports
- 8 = Ø 4 tube rear ports
- NOMINAL DIAMETER MAX PRESSURE 1 = Ø 0,8 (1W) 10 bar (NC) 24V only 3 = Ø 1,5 (2W) 7 bar (NC) 5 bar (NO) 3 5 = Ø 1,1 NC (2W) Ø 0,9 NO (2W) 10 bar (NC) 10 bar (NO)
- 6 = Ø 1,5 NC (2W) 3 bar (NC) MATERIALS:
- **ELECTRICAL CONNECTION:**
- 5 5 = industrial standard connection (9.4 mm)

SOLENOID VOLTAGE: 3 B = 24V 50/60 Hz 2 = 12V DC

C = 48V 50/60 Hz3 = 24V DC 4 = 48V DC D = 110V 50/60 Hz

FIXING:

P

- = with screws for metal (standard)
- P = with screws for plastics

3/2-way NC solenoid valve

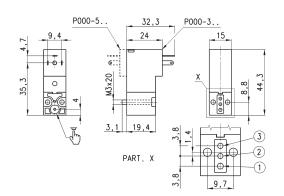


Supplied with: 1x interface seal 2x screws M3x20 UNI 8112 (fixing for metal, standard) οг 2x screws M3x23 UNI 10227 (fixing for plastics, P option)

P = technopolymer PBT body, FKM poppet seal, other seals in NBR (FKM on demand)

6 = 110V DC





Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)
P000-301-P53	0,8	0.21	14	0 ÷ 10
P000-303-P53	1,5	0.54	35	0 ÷ 7
P000-305-P53	1,1	0.39	25	0 ÷ 10
P000-306-P53	1,5	0.54	-	0 ÷ 3

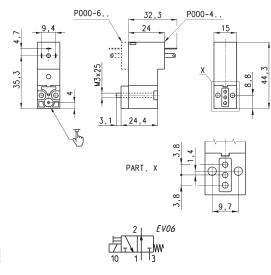
^{*} Voltage tolerance from +10% to -25%

SERIES P SOLENOID VALVES

3/2-way NO solenoid valve



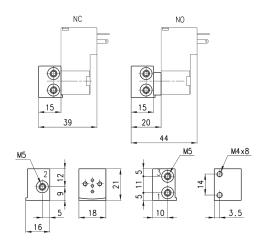
Supplied with:
1x interface for NO version
(connections 1 and 3 are inverted)
2x interface seals
2x screws M3x25 UNI 8112 (for standard version)



Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)
P000-405-P53	0.9	0.23	15	0 ÷ 10
P000-403-P53	1.5	0.54	-	0 ÷ 5

Single sub-base



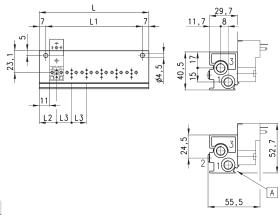


Mod.

Single manifold with rear outlets



DIMENSIONS										
Mod.	N° Valves	L	L1	L2	L3	1 (P)	3 (R)			
P102-0*	2	53	39	18,5	16	G1/8	G1/8			
P103-0*	3	69	55	18,5	16	G1/8	G1/8			
P104-0*	4	85	71	18,5	16	G1/8	G1/8			
P105-0*	5	101	87	18,5	16	G1/8	G1/8			
P106-0*	6	117	103	18,5	16	G1/8	G1/8			



* = see the type of PORTS in the CODING EXAMPLE TABLE.

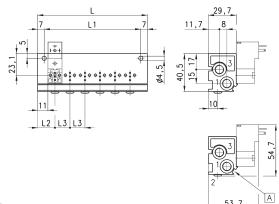
A = groove for electric connection identification

€ CAMOZZI

Single manifold with front outlets



This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520.



DIMENSION	IS						
Mod.	Nrvalves	L	L1	L2	L3	1 (P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8

* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification

Double sided manifold with rear outlets



	L		
7	L1 _	7	_33,1
4		55,5 30,5 15,8 132,3	
H		12,5	8
	Ø4,5	2	57,1 A
			9,68

DIMENSIONS									
Mod.	Nrvalves	L	L1	L2	L3	1 (P)	3 (R)		
P204-0*	4	53	39	18,5	16	G1/8	G1/8		
P206-0*	6	69	55	18,5	16	G1/8	G1/8		
P208-0*	8	85	71	18,5	16	G1/8	G1/8		
P210-0*	10	101	87	18,5	16	G1/8	G1/8		
P212-0*	12	117	103	18,5	16	G1/8	G1/8		

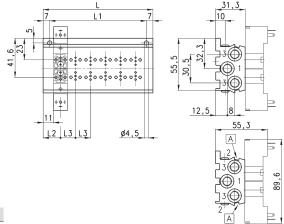
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification

Double sided manifold with front outlets



This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520.



DIMENSIONS									
DIMENSION	2								
Mod.	Nrvalves	L	LI	L2	L3	1(P)	3 (R)		
P204-0*	4	53	39	18,5	16	G1/8	G1/8		
P206-0*	6	69	55	18,5	16	G1/8	G1/8		
P208-0*	8	85	71	18,5	16	G1/8	G1/8		
P210-0*	10	101	87	18,5	16	G1/8	G1/8		
P212-0*	12	117	103	18,5	16	G1/8	G1/8		

* = see the type of PORTS in the CODING EXAMPLE TABLE.

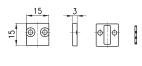
A = groove for electric connection identification

SERIES P SOLENOID VALVES

Excluder tap



Supplied with: 1x excluder tap 1x interface seal 2x screws

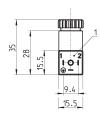


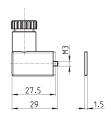
事 事

Mod.

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







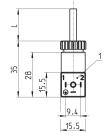
Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

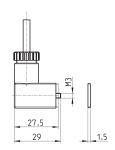
1 = 90° adjustable connector

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.





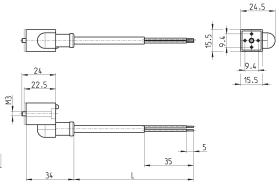
Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000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

1 = 90° adjustable connector

C₹ CAMOZZI

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

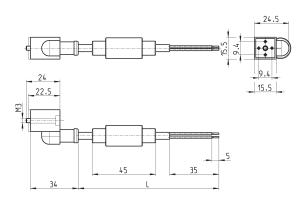




Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-503-2	in-line moulded cable, with diode + Led	black	24 V DC	2000 mm	-	0.3 Nm
125-503-5	in-line moulded cable, with diode + Led	black	24 V DC	5000 mm	-	0.3 Nm
125-553-2	in-line moulded cable, without electronics	black	-	2000 mm	-	0.3 Nm
125-553-5	in-line moulded cable, without electronics	black	-	5000 mm	-	0.3 Nm

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

Series PL directly operated solenoid valves

New versions

3/2-way - Normally Closed (NC)



» Can be mounted on a single base (M5 connections) or on manifold (M5 connections or cartridge Ø 3 and 4)

are supplied with direct current (DC).
To operate in alternating current (AC), it is
necessary to use the connector with bridge
rectifier Mod. 125-900.

Please note that all Series PL solenoid valves

Series PL directly operated mini-solenoid valves are available in the NC version and can be mounted on single bases or on manifolds.

GENERAL DATA

TECHNICAL FEATURES

Function 3/2 N

Operation direct acting poppet type

Pneumatic connections on subbase with ISO 15218 interface by means of screws

Nominal diameter 1.5 mm

Nominal flow 35 Nl/min (air @ 6 bar ΔP 1 bar)

Flow coefficient kv (l/min) 0.54

 $\begin{array}{ll} \text{Operating pressure} & 0 \div 3.5 \text{ or } 4 \div 8 \text{ bar} \\ \text{Operating temperature} & 0^{\circ}\text{C} \div 50^{\circ}\text{C} \\ \end{array}$

Media filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas

Response time ON <10 msec - OFF <15 msec

Manual override not foreseen in any position

MATERIALS IN CONTACT WITH THE MEDIUM

BodyPBT technopolymerSealsFKM, NBRInternal partsstainless steel, NBR

ELECTRICAL FEATURES

Voltage 24 V DC - 12 V DC - other voltages on demand

Voltage tolerance ±10%
Power consumption 2.7 W
Duty cycle ED 100%

Electrical connection with industrial standard connector (9.4 mm)

Protection class IP65 with connector

Special versions available on demand

€ CAMOZZI



DI	Λ	00	_	Z	Λ	Z	_	DI	2	z	
PL	U	00	_) 5	U	5	-	PL) 5	

SERIES

BODY DESIGN: 0

- 0 = single sub-base (M5 only) or interface
- 1 = single manifold 2 = double sided manifold

NUMBER OF POSITIONS:

00 = interface

- 01 = single base (M5 only) 02 ÷ 99 = manifold number of positions
- NUMBER OF WAYS FUNCTIONS: 3
 - 0 = manifold or single base
 - 3 = 3-way NC 5 = 3-way NC electric part revolved by 180°

VALVE PORTS: 0

0 = interface (for single valve only)

MANIFOLD PORTS:

- 2 = M5 side port 3 = ø 3 tube side port
- 4 = Ø 4 tube side port 6 = M5 rear ports

- 7 = Ø 3 tube rear ports 8 = Ø 4 tube rear ports

NOMINAL DIAMETER: 3

- 3 = Ø 1.5 mm (Pressure 4 ÷ 8 bar)
- 6 = Ø 1.5 mm (Pressure 0 ÷ 3.5 bar)

MATERIALS: PL

PL = technopolymer PBT body, FKM poppet seal, other seals in NBR

ELECTRICAL CONNECTION: 2

2 = industrial standard connection (9.4 mm)

VOLTAGE - POWER CONSUMPTION: 3

2 = 12 V DC 2.7W 3 = 24 V DC 2.7 W

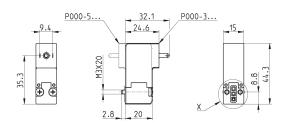
= with screws for metal (standard)

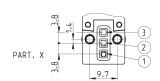
P = with screws for plastics

3/2-way NC solenoid valve



Supplied with: 1x interface seal 2x screws M3x20 UNI 8112 (fixing for metal, standard) 2x screws M3x23 UNI 10227 (fixing for plastics. P option)





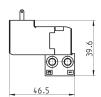
Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)
PL000-303-PL23	1.5	0.54	35	4 ÷ 8
PL000-503-PL23	1.5	0.54	35	4 ÷ 8
PL000-306-PL23	1.5	0.54	-	0 ÷ 3.5
PL000-506-PL23	1.5	0.54	-	0 ÷ 3.5





Single sub-base













Mod. **P001-02**

Single manifold with rear outlets



	3 1 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
29.7	52.9
172 177 179 170 170 170 170 170 170 170 170 170 170	
31.2	

Mod.	Nrvalves	L	L1	L2	L3	1 (P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8

* = see the type of PORTS in the CODING EXAMPLE TABLE.

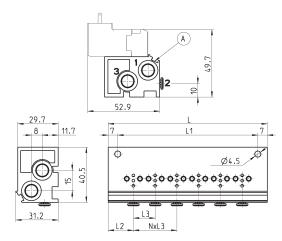
A = groove for electric connection identification

Single manifold with front outlets



This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520.

Mod.	Nrvalves	L	L1	L2	L3	1 (P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8



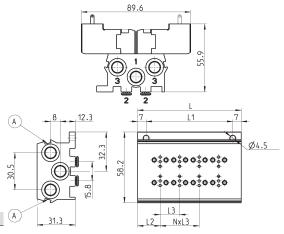
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification

C∢ CAMOZZI

Double sided manifold with rear outlets





Mod.	Nrvalves	L	L1	L2	L3	1 (P)	3 (R)
P204-0*	4	53	39	18,5	16	G1/8	G1/8
P206-0*	6	69	55	18,5	16	G1/8	G1/8
P208-0*	8	85	71	18,5	16	G1/8	G1/8
P210-0*	10	101	87	18,5	16	G1/8	G1/8
P212-0*	12	117	103	18,5	16	G1/8	G1/8

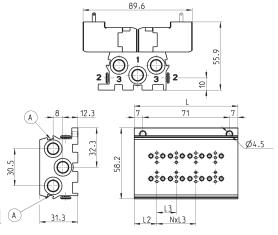
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification

Double sided manifold with front outlets



This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520.



Mod.	Nrvalves	L	L1	L2	L3	1 (P)	3 (R)
P204-0*	4	53	39	18,5	16	G1/8	G1/8
P206-0*	6	69	55	18,5	16	G1/8	G1/8
P208-0*	8	85	71	18,5	16	G1/8	G1/8
P210-0*	10	101	87	18,5	16	G1/8	G1/8
P212-0*	12	117	103	18,5	16	G1/8	G1/8

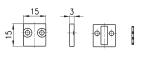
* = see the type of PORTS in the CODING EXAMPLE TABLE.

A = groove for electric connection identification

Excluder tap



Supplied with: 1x excluder tap 1x interface seal 2x screws



审审

Mod.

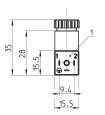
SERIES PL SOLENOID VALVES

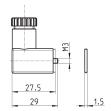
C CAMOZZI

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









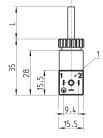
Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

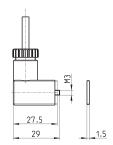
1 = 90° adjustable connector

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.





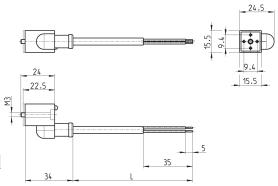
Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000 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

1 = 90° adjustable connector

CAMOZZI Automation

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

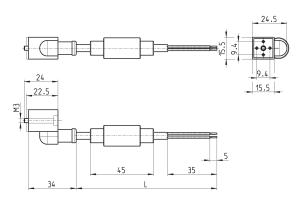




Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-503-2	in-line moulded cable, with diode + Led	black	24 V DC	2000 mm	-	0.3 Nm
125-503-5	in-line moulded cable, with diode + Led	black	24 V DC	5000 mm	-	0.3 Nm
125-553-2	in-line moulded cable, without electronics	black	-	2000 mm	-	0.3 Nm
125-553-5	in-line moulded cable, without electronics	black	-	5000 mm	-	0.3 Nm

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



Series PN directly operated solenoid valves

3/2-way - Normally Closed (NC)



- » Can be mounted on a single base (M5 connections) or on manifold (M5 connections or cartridge Ø 3 and 4)
- » Compact design suitable for use in reduced mounting space

Please note that all Series PN solenoid valves are supplied with direct current (DC). To operate in alternating current (AC), it is necessary to use the connector with bridge rectifier Mod. 125-900.

Series PN directly operated solenoid valves are available as 3/2-way NC. They are equipped with a manual override which makes the plants setting easier and they can be mounted on single bases or on manifolds.

GENERAL DATA

TECHNICAL FEATURES

Function 3/2 N

Operation direct acting poppet type

Pneumatic connections on subbase with ISO 12238 interface by means of screws

Nominal diameter 0.8 mm

Nominal flow 12 Nl/min (air @ 6 bar ΔP 1 bar)

 $\begin{array}{lll} \mbox{Flow coefficient kv (l/min)} & 0.19 \\ \mbox{Operating pressure} & 0 \div 10 \mbox{ bar} \\ \mbox{Operating temperature} & 0^{\circ}\mbox{C} \div 50^{\circ}\mbox{C} \\ \end{array}$

Media filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas

Response time (ISO 12238) ON <10 msec - OFF <15 msec

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body PBT technopolymer
Seals PU, NBR, (FKM on demand)
Internal parts stainless steel

ELECTRICAL FEATURES

 $\begin{array}{ccc} \textbf{Voltage} & 24 \dots 205 \, \text{V DC} \\ \textbf{Voltage tolerance} & \pm 10\% \end{array}$

Power consumption 2 W - 1 W (24 V DC only)

Duty cycle ED 100%

Electrical connection with industrial standard connector (9.4 mm)

Protection class IP65 with connector

Special versions available on demand



CODING EXAMPLE



BODY DESIGN: 0 0 = single sub-base 1 = single manifold 2 = double sided manifold NUMBER OF POSITIONS: 00 = interface 01 = single base (M5 only) 02 ÷ 99 = manifold number of positions NUMBER OF WAYS - FUNCTIONS: 3 0 = manifold or single base 3 = 3-way NC VALVE PORTS: 0 0 = interface (for single valve only) MANIFOLD PORTS (for Series W, P and PN): 2 = M5 side port 3 = Ø 3 tube side port 4 = Ø 4 tube side port 6 = M5 rear ports 7 = Ø 3 tube rear ports 8 = Ø 4 tube rear ports NOMINAL DIAMETER - MAX PRESSURE 1 = Ø 0,8 (1W) 10 bar (NC) 24V only 1 MATERIALS: P P = PBT body, PU poppet seal ELECTRICAL CONNECTION:
5 = industrial standard connection (9.4 mm) 5 SOLENOID VOLTAGE: 3 3 = 24V DC 4 = 48V DC 6 = 110V DC 7 = 205V DC

standard for the mounting on plastic interfaces
 M = with screws for the mounting on metal interface (on demand)

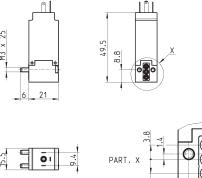
SERIES PN SOLENOID VALVES

C₹ CAMOZZI

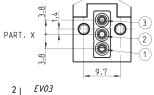
3/2-way NC solenoid valve



Supplied with: 1x interface seal 2x screws





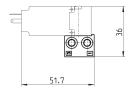




Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)
PN000-301-P53	0.8	0.18	12	0 ÷ 10

Single sub-base











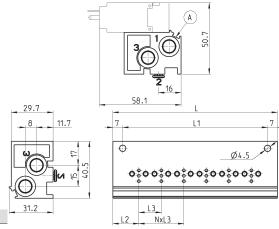


Mod. P001-02

Single manifold with rear outlets



Mod.	Nrvalves	L	L1	L2	L3	1(P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8



* = see the type of PORTS in the CODING EXAMPLE TABLE.

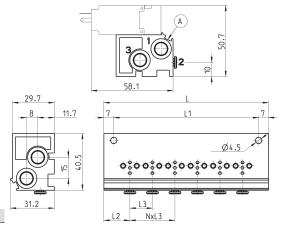
A = groove for electric connection identification

€ CAMOZZI

Single manifold with front outlets



This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520.



Mod.	Nrvalves	L	L1	L2	L3	1 (P)	3 (R)
P102-0*	2	53	39	18,5	16	G1/8	G1/8
P103-0*	3	69	55	18,5	16	G1/8	G1/8
P104-0*	4	85	71	18,5	16	G1/8	G1/8
P105-0*	5	101	87	18,5	16	G1/8	G1/8
P106-0*	6	117	103	18,5	16	G1/8	G1/8

* = see the type of PORTS in the CODING EXAMPLE TABLE.

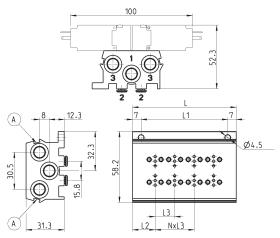
A = groove for electric connection

Double sided manifold with rear outlets



-	Ĭ.

Mod.	Nrvalves	L	L1	L2	L3	1 (P)	3 (R)
P204-0*	4	53	39	18,5	16	G1/8	G1/8
P206-0*	6	69	55	18,5	16	G1/8	G1/8
P208-0*	8	85	71	18,5	16	G1/8	G1/8
P210-0*	10	101	87	18,5	16	G1/8	G1/8
P212-0*	12	117	103	18,5	16	G1/8	G1/8



* = see the type of PORTS in the CODING EXAMPLE TABLE.

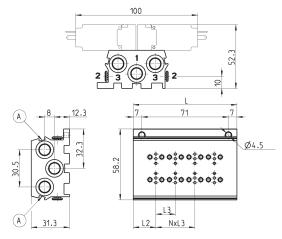
A = groove for electric connection identification

Double sided manifold with front outlets



This manifold is arranged to be fixed through DIN 46277/3 guide together with the accessory PCF-E520.

Mod.	Nrvalves	L	L1	L2	L3	1 (P)	3 (R)
P204-0*	4	53	39	18,5	16	G1/8	G1/8
P206-0*	6	69	55	18,5	16	G1/8	G1/8
P208-0*	8	85	71	18,5	16	G1/8	G1/8
P210-0*	10	101	87	18,5	16	G1/8	G1/8
P212-0*	12	117	103	18,5	16	G1/8	G1/8



* = see the type of PORTS in the CODING EXAMPLE TABLE.

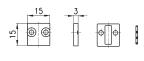
A = groove for electric connection

SERIES PN SOLENOID VALVES

Excluder tap



Supplied with: 1x excluder tap 1x interface seal 2x screws

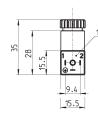


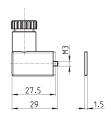
审审

Mod.

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







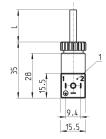
Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

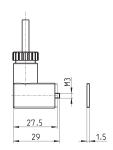
1 = 90° adjustable connector

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.





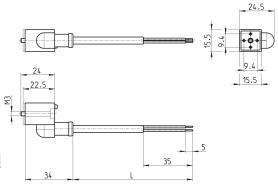
Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000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

1 = 90° adjustable connector

CAMOZZI Automation

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

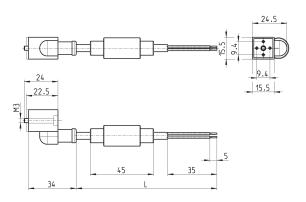




Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-503-2	in-line moulded cable, with diode + Led	black	24 V DC	2000 mm	-	0.3 Nm
125-503-5	in-line moulded cable, with diode + Led	black	24 V DC	5000 mm	-	0.3 Nm
125-553-2	in-line moulded cable, without electronics	black	-	2000 mm	-	0.3 Nm
125-553-5	in-line moulded cable, without electronics	black	-	5000 mm	-	0.3 Nm

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



Series PD directly operated solenoid valves

2/2-way - Normally Closed (NC)



This directly operated solenoid valve is available as 2/2-way, NC, in several sizes and in three different versions.

Please note that all Series PD solenoid valves are supplied with direct current (DC). To operate in alternating current (AC), it is necessary to use the connector with bridge rectifier Mod. 125-900.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 N

Operation direct acting poppet type

Pneumatic connections on subbase by means of M3 screws - M5 threads

Nominal diameter 0.8 ... 2.5 mm

Nominal flow 25 ... 125 Nl/min (air @ 6 bar ΔP 1 bar)

 $\begin{array}{ll} \mbox{Flow coefficient kv (l/min)} & 0.39 \dots 1.93 \\ \mbox{Operating pressure} & -0.9 \div 4 \dots 12 \mbox{ bar} \\ \mbox{Operating temperature} & 0^{\circ}\mbox{C} \div 50^{\circ}\mbox{C} \\ \end{array}$

Media filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas

Response time <15 ms in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body brass, anodized aluminium
Seals NBR, (FKM on demand)
Internal parts stainless steel

ELECTRICAL FEATURES

Voltage 24 V DC - 12 V DC - other voltages on demand

Voltage tolerance 1 and 2 W ±10% - 4 W ±5%

Power consumption 1 ... 4 V

Duty cycle ED 100% (1 and 2 W) - ED 50% (4W) see the ED definition diagram

Electrical connection with industrial standard connector (9.4 mm)

Protection class IP65 with connector

Special versions available on demand



CODING EXAMPLE

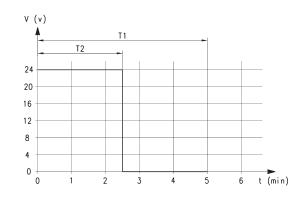
PD 0 00 - 2 A 1 - R	5 3	R 5 3
---------------------	-----	-------

יו	U			 		11	,	
PD	SERIES							
0	BODY DESIGN: 0 = single body							
00	NUMBER OF POSITI 00 = interface	ONS:						
2	NUMBER OF WAYS 2 = 2-way NC	- FUNCTIONS:						
A	BODY MATERIALS A A = aluminium boo C = aluminium boo E = brass body, M5	dy, rear pneumatic dy, low pneumatic	interface					
1	NOMINAL DIAMETE 1 = Ø 0.8 2 = Ø 1.2 3 = Ø 1.6 4 = Ø 2 5 = Ø 2.5	R:						
R	POPPET SEAL MATE R = NBR F = FKM (on reques							
5	ELECTRICAL CONNE 5 = industrial stand		.4 mm)					
3	SOLENOID VOLTAGE 1 = 12V DC 1W 2 = 12V DC 2W 3 = 24V DC 1W 5 = 24V DC 2W 8 = 24V DC 4W	:						
	FIXING: = with screws for P = with screws for	r metal (standard) r plastics						

ED definition diagram

Operating factor lower than 50%

T1 = cycle time (5 minutes max)
T2 = energizing time
t = time (minutes)
V = working voltage (volt)
ED = T2/T1 x 100



SERIES PD SOLENOID VALVES

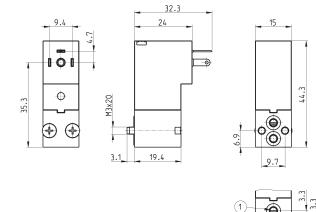
2 /2

2/2-way NC solenoid valve, rear pneumatic interface



Supplied with: 2x OR seals 2x screws M3x20 UNI 8112 (fixing for metal, standard) or 2x screws M3x23 UNI 10227 (fixing for plastics, P option)

For use with vacuum invert channel 1 and channel 2.





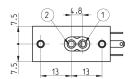
Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)	Power consumption (W)	ED (%)
PD000-2A1-R51	0.8	0.39	25	0 ÷ 12	1	100
PD000-2A1-R53	0.8	0.39	25	0 ÷ 12	1	100
PD000-2A2-R52	1.2	0.54	35	0 ÷ 12	2	100
PD000-2A2-R55	1.2	0.54	35	0 ÷ 12	2	100
PD000-2A3-R52	1.6	0.70	45	0 ÷ 7	2	100
PD000-2A3-R55	1.6	0.70	45	0 ÷ 7	2	100
PD000-2A4-R58	2	1.31	85	0 ÷ 6	4	50
PD000-2A5-R58	2.5	1.93	-	0 ÷ 4	4	50

2/2-way NC solenoid valve, low pneumatic interface

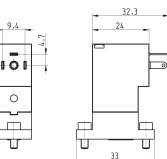


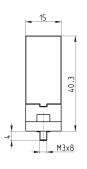
Supplied with: 1x seal 2x screws M3x8 UNI 5931

For use with vacuum invert channel 1 and channel 2.









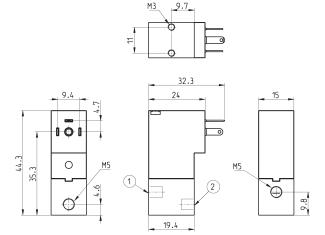
Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)	Power consumption (W)	ED (%)
PD000-2C1-R51	0.8	0.39	25	0 ÷ 12	1	100
PD000-2C1-R53	0.8	0.39	25	0 ÷ 12	1	100
PD000-2C2-R52	1.2	0.54	35	0 ÷ 12	2	100
PD000-2C2-R55	1.2	0.54	35	0 ÷ 12	2	100
PD000-2C3-R52	1.6	0.70	45	0 ÷ 7	2	100
PD000-2C3-R55	1.6	0.70	45	0 ÷ 7	2	100
PD000-2C4-R58	2	1.31	85	0 ÷ 6	4	50
PD000-2C5-R58	2.5	1.93	-	0 ÷ 4	4	50

C₹ CAMOZZI

2/2-way NC solenoid valve, M5 ports



For use with vacuum invert channel 1 and channel 2.





Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)	Power consumption (W)	ED (%)
PD000-2E1-R51	0.8	0.39	25	0 ÷ 12	1	100
PD000-2E1-R53	0.8	0.39	25	0 ÷ 12	1	100
PD000-2E2-R52	1.2	0.54	35	0 ÷ 12	2	100
PD000-2E2-R55	1.2	0.54	35	0 ÷ 12	2	100
PD000-2E3-R52	1.6	0.70	45	0 ÷ 7	2	100
PD000-2E3-R55	1.6	0.70	45	0 ÷ 7	2	100

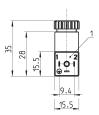
SERIES PD SOLENOID VALVES

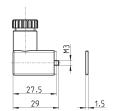
C CAMOZZI

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









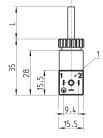
Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

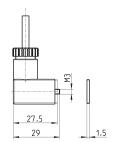
1 = 90° adjustable connector

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.





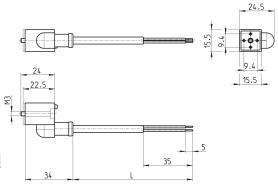
Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000 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

1 = 90° adjustable connector

CAMOZZI Automation

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

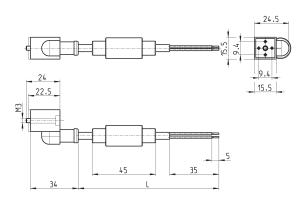




Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-503-2	in-line moulded cable, with diode + Led	black	24 V DC	2000 mm	-	0.3 Nm
125-503-5	in-line moulded cable, with diode + Led	black	24 V DC	5000 mm	-	0.3 Nm
125-553-2	in-line moulded cable, without electronics	black	-	2000 mm	-	0.3 Nm
125-553-5	in-line moulded cable, without electronics	black	-	5000 mm	-	0.3 Nm

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

Series PDV directly operated solenoid valves with fluid separation membrane

New versions

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 fluid separation membrane protects the medium from extreme changes of temperature due to heating of the solenoid.

GENERAL DATA

TECHNICAL FEATURES

Function

directly operated with fluid separation membrane Operation

Pneumatic connections on subbase by means of M3 screws

Nominal diameter 0.8 ... 2 mm Nominal flow see kv Flow coefficient kv (l/min) 0.25 ... 0.8 Operating pressure 0 ... 7 bar Operating temperature 10°C ÷ 50°C

gas and liquids: air, water, reagents, solvents, etc... Response time (ISO 12238)

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body **PEEK** FKM - EPDM Seals

ELECTRICAL FEATURES

Voltage 24 V DC - 12 V DC - other voltages on request

Voltage tolerance ±10% **Power consumption** 2 W Duty cycle ED 100%

industrial standard (9.4 mm), DIN EN 175 301-803-C (8 mm), cable L = 300 mm **Flectrical connection**

Protection class IP65 with connector

Special versions available on request

C₹ CAMOZZI



DDV	CO	1	22		D.7	7	_	NI.		R/I	00	<i>ζ</i> . Λ	C023	
שעץ	CO	Т.	22	-	B/	5	G	N	-	IVI	00	4A	LU23	ı

PDV	SERIES	
CO	BODY DESIGN: CO = body with interface for subbase	
1	NUMBER OF WAYS - FUNCTIONS: 1 = 2/2-way NC	
22	PNEUMATIC CONNECTIONS: 22 = PDV-type interface, 2-way	
B7	NOMINAL DIAMETER: A7 = Ø 0.8 mm B3 = Ø 1.2 mm B7 = Ø 1.6 mm C1 = Ø 2.0 mm	
3	SEAL MATERIAL: 3 = FKM 4 = EPDM	
G	BODY MATERIAL: G = PEEK	
N	MANUAL OVERRIDE: N = not foreseen	
М	FIXING ACCESSORIES: M = screws for metal	
00	OPTIONS: 00 = none	
4A	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°
C023	VOLTAGE - POWER CONSUMPTION: CO17 = 6V DC 2W CO20 = 12V DC 2W CO23 = 24V DC 2W	

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



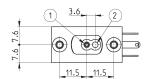
Supplied with: 1x seal 2x M3x8 UNI 5931 screws

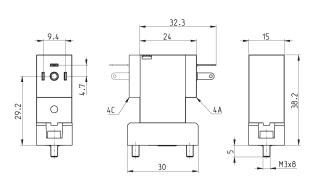
NOTE IN THE TABLE BELOW:

* 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

SERIES PDV SOLENOID VALVES

2/2 NC solenoid valve, DIN EN 175 301-803-C (8 mm)

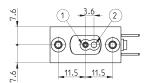


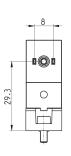
Supplied with: 1x seal 2x M3x8 UNI 5931 screws

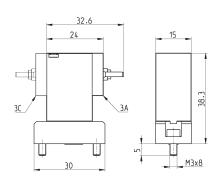
NOTE IN THE TABLE BELOW: * to complete the code, add ELECTRICAL CONNECTION (3A or 3C options) and VOLTAGE (see CODING EXAMPLE)

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

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



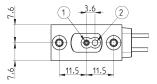
Supplied with: 1x seal 2x M3x8 UNI 5931 screws

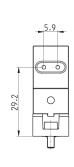
NOTE IN THE TABLE BELOW:

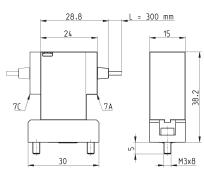
* to complete the code, add
ELECTRICAL CONNECTION
(7A or 7C options)
and VOLTAGE
(see CODING EXAMPLE)

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









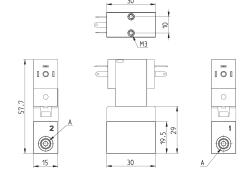
Mod.	Orifice Ø (mm)	kv (l/min)	Min/max pressure (bar)	Max back pressure (bar)	Body material	Seal material
PDVC0122-A73GN-M00*	0.8	0.25	0 ÷ 7.0	1.2	PEEK	FKM
PDVC0122-A74GN-M00*	0.8	0.25	0 ÷ 7.0	1.2	PEEK	EPDM
PDVC0122-B33GN-M00*	1.2	0.55	0 ÷ 4.5	1.2	PEEK	FKM
PDVC0122-B34GN-M00*	1.2	0.55	0 ÷ 4.5	1.2	PEEK	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

CAMOZZI Automation

Single subbase for Series PDV solenoid valve



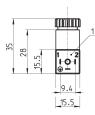
Material: PEEK Pneumatic connections: M5 or 1/4-28 UNF

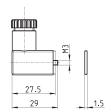


Mod.	A (pneumatic connections)	
PDV001-1/4	1/4 - 28 UNF	
PDV001-M5	M5	

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







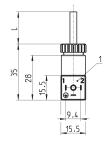
Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

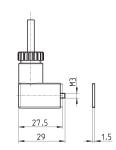
1 = 90° adjustable connector

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

1 = 90° adjustable connector

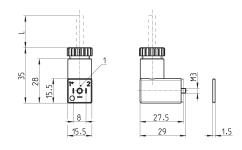
SERIES PDV SOLENOID VALVES



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



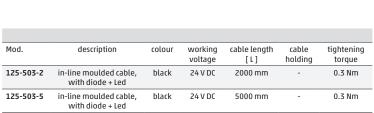
1 = 90° adjustable connector

0.3 Nm

0.3 Nm

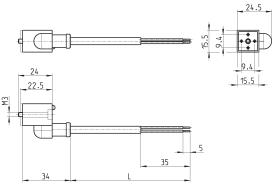
Industrial standard (9.4 mm) in-line connectors with cable





black

black



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

2000 mm

5000 mm

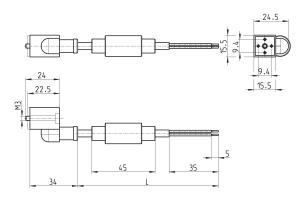


in-line moulded cable,

without electronics in-line moulded cable, without electronics

125-553-2

125-553-5



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



Series A directly operated solenoid valves

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





- » Ports: M5, G1/8, R1/8, cartridge ø4
- » Bistable version also available (with magnetic memory)

The solenoid can be easily and quickly replaced without interfering with the pressurised part of the valve.
On the same mechanical part different types of solenoids can be interchanged. The choice of solenoids determines the performance of the solenoid valve in terms of consumption

and pressure.

Series A solenoid valves are of the directly operated type and can be used with dry or lubricated air. They are available in the 2/2 and 3/2-way versions with normally closed (NC) or normally open (NO) operation.

As shown in the following tables, they are supplied in different versions according to the type of body, threaded ports and orifice. They can thus satisfy various operating and installation requirements.

GENERAL DATA

TECHNICAL FEATURES

Function2/2 NC - 3/2 NC - 2/2 NO - 3/2 NOOperationdirect acting poppet type

Pneumatic connections M5, G1/8, R1/8 threads - ø4 fitting - CNOMO interface

Nominal diameter 1.5 ... 2.5 mm

Nominal flow 40 ... 130 Nl/min (air @ 6 bar ΔP 1 bar)

Flow coefficient kv (l/min) 0.62 ... 2.0 Operating pressure -0.9 ... 15 bar

Operating temperature $0^{\circ}\text{C} \div 60^{\circ}\text{C}$ (with dry air -20°C)

Media filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas

Response time ON <15 msec - OFF <25 msec

Manual override see tables Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body nickel-plated brass - PBT technopolymer

Seals HNBR, FKM Internal parts stainless steel

ELECTRICAL FEATURES

 Voltage
 12 ... 110 V DC - 24 ... 380 V AC 50/60 Hz

 Voltage tolerance
 ±10% (DC) / -15% ÷ +10% (AC)

 Power consumption
 3 ... 5 W (DC) / 3.5 ... 7 VA (AC)

 Duty cycle
 ED 100%

Electrical connection F (155°C)

Protection class DIN 43650 connector, (A, B Shape)

IP65 with connector

Special versions available on demand

SERIES A SOLENOID VALVES



CODING EXAMPLE

Α	3	3	1	_	0	(2	_	117	7
			_		U		_		01	

SERIES A BODY DESIGN: 3 1 = base (24x24 mm) interface rotatable through 360° 2 = base (24x24 mm) fixed interface 3 = threaded body 4 = rapid exhaust body 5 = base with ISO standard interface, fixed body in technopolymer 5 = Dase with 150 standard interface, fixed body in 6 = (16x16 mm) interface rotatable through 360° A = single manifold B = 2-part manifold C = 3-part manifold D = 4-part manifold E = 5-part manifold F = 6-part manifold G = 7-part manifold H = 8-part manifold K = 9-part manifold L = 10-part manifold M = 11-part manifold N = 12-part manifold P = 13-part manifold R = 14-part manifold S = 15-part manifold NUMBER OF PORTS: 3 2 = 2 way 3 = 3 way FUNCTION: 1 1 = NC 2 = NO 3 = NO in line PORTS: 0 1 M5 M5 M5 0 M 5 G1/8 G1/8 1 3 4 R1/8 М5 M5 with manual override R1/8 swivel O-ring interface fixed O-ring interface A B M5 М5 G1/8 C cartridge Ø 4 М5 NOMINAL DIAMETER: C C = Ø 1,5 D = Ø 2 $E = \emptyset 2,5$ BODY MATERIAL: 2 2 = nickel-plated brass 3 = technopolymer ENCAPSULATING MATERIAL / SOLENOID DIMENSIONS: A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 (24 V DC only) G9 = PA / 22 x 58 He = PA / 42 x 58 **U7** H8 = PA 6 V0 / 30 x 30 U7 = PET / 22 x 22 SOLENOID VOLTAGE (see the dedicated section 2.35) 7



TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES

Valve function 2/2: for vacuum application connect the vacuum in "2" Valve function 3/2: for vacuum application connect the vacuum in "1" Note: for solenoid Mod. G90 (2/2 NO) contact our technical department

Mod.	Solenoids 3W working pressure (bar)	Solenoids 4-5 W working pressure (bar)	Solenoids 3,5 VA working pressure (bar)
	allowed pressure with solenoids DC - 3 W	allowed pressure with solenoids DC - 4-5 W	allowed pressure with solenoids AC - 3,5 VA
Valve function 2/2 NC	·	·	•
A321-0C2	- 0,9 ÷ 8	- 0,9 ÷ 15	- 0,9 ÷ 15
A321-1C2	- 0,9 ÷ 8	- 0,9 ÷ 15	- 0,9 ÷ 15
A321-1D2	- 0,9 ÷ 4	- 0,9 ÷ 9	- 0,9 ÷ 9
A321-1E2	- 0,9 ÷ 1	- 0,9 ÷ 6	- 0,9 ÷ 6
Valve function 2/2 NO			
A322-0C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A322-1C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
Valve function 3/2 NC			
A331-0C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A331-1C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A331-3C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A331-4C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A431-1C2	2 ÷ 10	2 ÷ 10	2 ÷ 10
A531-BC2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A631-AC2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
AA31-0C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
AA31-0C3	2 ÷ 8	- 0,9 ÷ 8	- 0,9 ÷ 8
AA31-CC2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
AA31-CC3	2 ÷ 8	- 0,9 ÷ 8	- 0,9 ÷ 8
Valve function 3/2 NO			
A332-0C2	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
A332-1C2	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
A333-0C2	- 0,9 ÷ 6	-	- 0,9 ÷ 9
A333-1C2	- 0,9 ÷ 6	-	- 0,9 ÷ 9
AA33-0C2	- 0,9 ÷ 6	-	- 0,9 ÷ 9
AA33-0C3	- 0,9 ÷ 6	-	- 0,9 ÷ 8
AA33-CC3	- 0,9 ÷ 6	-	- 0,9 ÷ 8

SERIES A SOLENOID VALVES

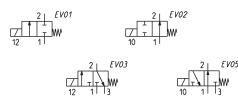
2/2 and 3/2-way solenoid valves Mod. A32 and Mod. A33



Available in the 2/2-way version, NC or NO, as well as in the 3/2-way version, NC, NO or NO in line. In the 3/2 NC version connection 1 is on the body (fi. A), whereas in the 3/2 NO version is on the M5 thread of the tube (fig. B).

A	B
M4 & &	
3 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3	3 2

Mod.	Conn. 1	Conn. 2	Conn. 3	Function	Orifice Ø mm	Qn (Nl/min)	Symbol
A321-0C2-*	M5	M5	-	2/2 NC	1,5	50	EV01
A321-1C2-*	G1/8	G1/8	-	2/2 NC	1,5	55	EV01
A321-1D2-*	G1/8	G1/8	-	2/2 NC	2	100	EV01
A321-1E2-*	G1/8	G1/8	-	2/2 NC	2,5	130	EV01
A322-0C2-*	M5	M5	-	2/2 NO	1,8	70	EV02
A322-1C2-*	G1/8	M5	-	2/2 NO	1,8	80	EV02
A331-0C2-*	M5	M5	M5	3/2 NC	1,5	50	EV03
A331-1C2-*	G1/8	G1/8	M5	3/2 NC	1,5	60	EV03
A332-0C2-*	M5	M5	M5	3/2 NO	1.5	55	EV05
A332-1C2-*	M5	G1/8	G1/8	3/2 NO	1.5	50	EV05
A333-0C2-*	M5	M5	M5	3/2NO in line	1.5	60	EV05
A333-1C2-*	G1/8	G1/8	M5	3/2NO in line	1,5	60	EV05



Note. For the use of NO valves in line, use the coil model U771 or U7K1 or G771 or G7K1.

* choose the most suitable solenoid.

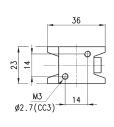
3/2-way solenoid valve Mod. AA31... - AA33...

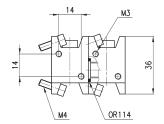


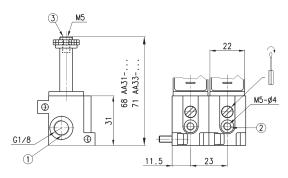
The 3/2-way solenoid valves for manifold assembly are available in the NC and NO in line version, with G1/8 ports at the manifold inlet.

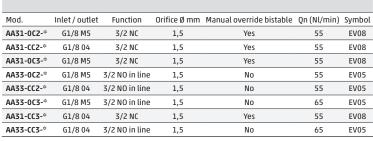
The inlets can be with M5 threading or with a \emptyset 4 cartridge.

The solenoid valve is supplied complete with O-ring and screws.











Note. For the use of NO valves in line, use the coil model U771 or U7K1 or G771 or G7K1.



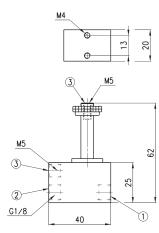
st choose the most suitable solenoid.

€ CAMOZZI



* choose the most suitable solenoid.

The 3/2-way NC solenoid valve, with G1/8 ports, incorporates a rapid exhaust valve. It is particularly suitable for operating small single-acting cylinders.





Mod.	Ports	Function	Orifice Ø mm	Qn (Nl/min)
A431-1C2-*	G1/8 / M5	3/2 NC	1.5	50

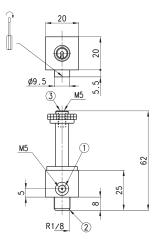
3/2-way solenoid valve Mod. A33



The body has an outlet with a R1/8 male thread which can be screwed directly onto the component to be operated. The inlet port is M5 threaded.

* choose the most suitable solenoid.

They are particularly suitable for the actuation of small single-acting cylinders and the operation of pneumatic valves with very low operating pressures.







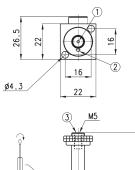
Mod.	Inlet / outlet	Function	Orifice Ø (mm)	Man. override bistable	Qn (Nl/min)	Symbol
A331-3C2-*	M5 / R1/8	3/2 NC	1,5	no	55	EV03
A331-4C2-*	M5 / R1/8	3/2 NC	1,5	yes	55	EV08

3/2-way solenoid valve Mod. A63



* choose the most suitable solenoid.

Equipped with a manual override for a steady operation, it is suitable to be mounted directly onto machine parts by two screws. The sealing is ensured by two concentric 0-rings allowing the body a 360° adjustment.





Mod.	Interface	Function	Orifice Ø (mm)	Qn (Nl/min)
A631-AC2-*	OR	3/2 NC	1,5	40

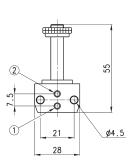
3/2-way solenoid valve Mod. A53

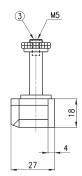


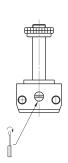
The body only is in technopolymer.

* choose the most suitable solenoid.

Equipped with a manual override for a steady operation, it is suitable to be mounted on Series 9 valves with an ISO interface. The interface which complies CNOMO norms is interchangeable with all ISO versions.







	2	EV08
Ħ	_[_	.
12	11	3

Mod.	Interface	Function	Orifice Ø (mm)	Qn (Nl/min)
A531-BC2-*	OR	3/2 NC	1,5	40

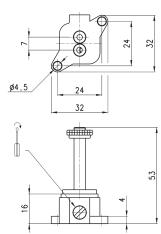
C∢ CAMOZZI

3/2-way solenoid valve Mod. A231 with fixed interface



* choose the most suitable solenoid.

Equipped with a manual override with the possibility of a bistable actuation.





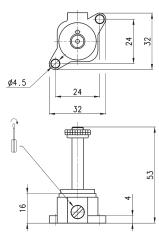
Mod.	Interface	Function	Orifice Ø (mm)	Qn (Nl/min)
A231-BC2-*	OR	3/2 NC	1,5	70

3/2-way solenoid valve Mod. A131 with swivel interface



* choose the most suitable solenoid.

Equipped with a manual override with the possibility of a bistable actuation.



	2	EV08
Ä	-17	Jw
12	11	ľ3'''

Mod.	Interface	Function	Orifice Ø (mm)	Qn (Nl/min)
A131-AC2-*	OR	3/2 NC	1,5	70



Series 6 directly operated solenoid valves

2/2-way - Normally Closed (NC)

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





- » Ports: G1/8, G3/8, cartridge Ø4
- » Available also in version for the low temperatures up to -50°C

The bodies of these valves can be used either individually or in manifolds.
The latter are provided with G1/8 threaded ports or an inbuilt diameter 4 cartridge(G3/8 for 2-way only).

Series 6 solenoid valves are available as 2/2 and 3/2-way, either NC or NO. These directly operated solenoid valves can be used either with or without lubrication.

GENERAL DATA

TECHNICAL FEATURES

Function2/2 NC - 3/2 NC - 3/2 NOOperationdirect acting poppet type

Pneumatic connections G1/8, G3/8 threads - ø4 fitting - CNOMO interface

Nominal diameter 2 ... 4 mm

Nominal flow 80 ... 350 Nl/min (air @ 6 bar ΔP 1 bar)

Flow coefficient kv (l/min) 1.2 ... 5.4 Operating pressure $0 \div 4 ... 15$ bar

Operating temperature $0^{\circ}\text{C} \div 60^{\circ}\text{C}$ (seals in FKM) / -50°C $\div +50^{\circ}\text{C}$ (seals in NBR)

Media filtered air, class 5.4.4 (5.1.4 for versions -50°C) according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas

Response time ON <15 msec - OFF <15 msec

Manual override see tables Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body nickel-plated brass - anodized aluminium

Seals FKM (NBR for versions -50°C)

Internal parts stainless steel

ELECTRICAL FEATURES

Electrical connection

 $\begin{array}{lll} \mbox{Voltage} & 12 \dots 110 \, \mbox{V C} - 24 \dots 230 \, \mbox{V AC} \, 50/60 \, \mbox{Hz} \\ \mbox{Voltage tolerance} & \pm 10\% \, (\mbox{DC}) - + 10\% \, \div - 15\% \, (\mbox{AC}) \\ \end{array}$

Power consumption 10 W (DC) - 19 VA (inrush AC), 12 VA (holding AC) Duty cycle ED 100%

Protection class with connector DIN EN 175 301-803-A

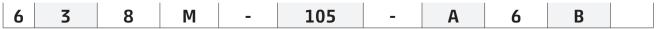
H (180°C)

IP65 with connector

Special versions available on demand

C∢ CAMOZZI





SERIES: 6 NUMBER OF PORTS AND FUNCTIONS: 3 0 = interface 2 = 2-way NC 3 = 3-way NC 4 = 3-way NO CONNECTION: 8 0 = interface 3 = G3/8 8 = G1/8 C = cartridge Ø 4 M = manifold M TYPE OF BODY: 150 = threaded body G1/8 - orifice Ø 2 mm 105 150 = threaded body G3/8 - orifice Ø 2.5 mm 15F = threaded body G3/8 - orifice Ø 3 mm 15G = threaded body G3/8 - orifice Ø 4 mm 450 = base with rotatable interface 457 = base with fixed interface 457 = base with tixed inter 101 = single manifold 102 = manifold - 2 pieces 103 = manifold - 3 pieces 104 = manifold - 4 pieces 105 = manifold - 5 pieces 107 = manifold - 7 pieces 108 = manifold - 8 pieces 109 = manifold - 9 pieces 109 = manifold - 10 pieces 100 = manifold - 10 pieces 110 = manifold - 10 pieces 111 = manifold - 11 pieces 112 = manifold - 12 pieces 113 = manifold - 13 pieces 114 = manifold - 14 pieces 115 = manifold - 15 pieces COIL MATERIAL: A A = PPSSOLENOID DIMENSIONS: 6 6 = 32x32SOLENOID VOLTAGE: В B = 24V 50/60Hz C = 48V 50/60 Hz D = 110V 50/60 Hz E = 230V 50/60 Hz 2 = 12V DC 3 = 24V DC 4 = 48V DC 6 = 110V DC VERSIONS: = standard LT = for low temperatures

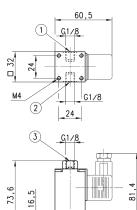
SERIES 6 SOLENOID VALVES

3/2-way NC and NO solenoid valve, G1/8 - Mod. 638 and Mod. 648



In the mod. 648-150-A6* (NO) connections 1 and 3 are inverted, while the max operating pressure is 6 bar in case a solenoid A6B, A6C, A6D, A6E is chosen.

* = choose the solenoid voltage according to the CODING EXAMPLE These valves are particularly suitable for operating single-acting cylinders or for use as signal valves.



 \bigcirc





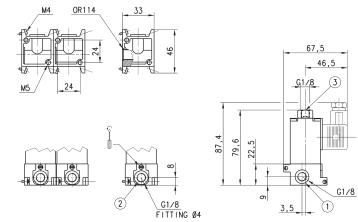
Mod.	Ports	Function	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)	Symbol
638-150-A6*	G1/8	NC	2	2.0	130	0 ÷ 10 [DC]	EV03
648-150-A6*	G1/8	NO	2	1.2	80	0 ÷ 8 [DC] - 0 ÷ 6 [AC]	EV05

3/2-way NC solenoid valve - Mod. 638M and Mod. 63CM



* = choose the solenoid voltage according to the CODING EXAMPLE

These solenoid valves are equipped with a manual override and are available with G1/8 inlet ports and with G1/8 outlets or with a diameter 4 cartridge. The body is supplied complete with screws and 0-ring.



	2	ı	EV08
們		7	
12	1		3

Mod.	Inlet	Outlet	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)
638M-101-A6*	G1/8	G1/8	2	1.8	120	0 ÷ 10
63CM-101-A6*	G1/8	cartridge Ø 4	2	1.6	108	0 ÷ 10

€ CAMOZZI

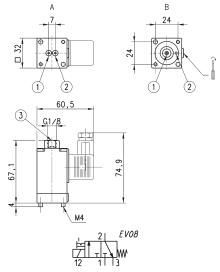
3/2-way NC solenoid valve - Mod. 600



These solenoid valves are equipped with an override and are available with two types of interface:

A = fixed interface

B = swivel interface



	12
* = choose the solenoid volta	age
according to the CODING EXAM	٩PL

Mod.	Interface	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)
600-450-A6*	Swivel	2	1.6	106	0 ÷ 10
600-457-A6*	Fixed	2	1.6	106	0 ÷ 10

2/2-way solenoid valves NC, G3/8 - Mod. 623



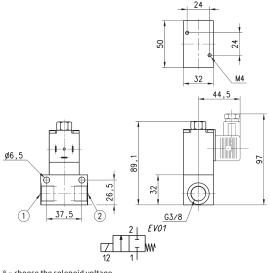
Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min-max pressure (bar)

290

350

 $0 \div 10 \, [$ AC 50Hz] - $0 \div 14 \, [$ DC]

0 ÷ 4 [AC 50Hz] - 0 ÷ 7 [DC]



* = choose the solenoid voltage according to the CODING EXAMPLE

Connector Mod. 124-... DIN EN 175 301-803-A



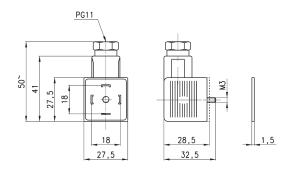
623-15F-A6*

623-15G-A6*

Protection class IP65

4.5

5.4



Mod.	description	colour	working voltage	cable holding	tightening torque
124-800	connector, without electronics	black	-	PG9/PG11	0.5 Nm
124-702	connector, varistor + Led	black	110 V AC/DC	PG9/PG11	0.5 Nm
124-701	connector, varistor + Led	black	24 V AC/DC	PG9/PG11	0.5 Nm
124-703	connector, varistor + Led	black	230 V AC/DC	PG9/PG11	0.5 Nm



Series CFB solenoid valves

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



- » Solenoid valves for air and water
- » Great reliability over time, even in heavy working conditions

Series CFB solenoid valves for general purpose are available in the NC and NO version, 2/2 and 3/2-way.

Special versions are available on demand for the protection against the water hammer or with specific traitments for the interception of aggressive fluids.

The valve function is determined by a poppet or by a diaphragm with operation direct or indirect.

Different versions are available according to the nominal diameter and to the threaded ports, as shown in the following tables. They can thus satisfy various requirements in terms of flow rates and working pressures.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 NC - 3/2 NC - 2/2 NO

direct acting poppet type - servo-assisted with diaphragm Operation

Pneumatic connections G1/8 ... G2 threads Nominal diameter 1.4 ... 50 mm Nominal flow See Kv Flow coefficient Kv (m³/h) 0.14 ... 45 Operating pressure 0 ÷ 0.8 ... 22 bar Operating temperature -10°C ÷ +90°C ... 140°C

air, water, liquid and gaseous fluids with max viscosity 37 cSt (5° E)

Response time ON <15 msec - OFF <25 msec

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body brass (alimentary or anti-limestone nickel-platings on demand) Seals NBR (CFB-A) - FKM (CFB-B, CFB-D) - EPDM (on demand) Internal parts stainless steel - stainless steel and brass (CFB-D1)

ELECTRICAL FEATURES

Voltage 12 V DC, 24 V DC - 24 V 50 Hz, 110 V 50/60 Hz, 220/230 V 50/60 Hz

Voltage tolerance ±5% (DC) - ±10% (AC)

Power consumption 10 ... 30 W (DC) - 9 ... 29 VA (AC)

Duty cycle ED 100% **Electrical connection** H (180°C)

Protection class DIN 43650 connector, (A shape)

IP65 with connector

Special versions available on demand

It is recommended to use connections with internal diameters bigger than valve orifices, otherwise there may be a performance change.

C∢ CAMOZZI





SERIES **CFB** OPERATION: Α A = indirect B = direct with linked diaphragm D = direct NUMBER OF WAYS - POSITIONS: 1 = 2/2-way NO 1 2 = 2/2-way NC 3 = 3/2-way NC CONNECTIONS: 3 CONNECTION

1 = G1/8

2 = G1/4

3 = G3/8

4 = G1/2

5 = G3/4

6 = G1

7 = G1 1/4

8 = G1 1/2

9 = G2 9 = G2 NOMINAL DIAMETER: L A = 1,4 mm B = 2 mm C = 2,5 mm D = 2,8 mm F = 4 mm G = 6 mm J = 8 mm L = 11,5 mm M = 13 mm N = 13,5 mm P = 18 mm R = 26 mm T = 32 mm X = 45 mm Z = 50 mm DIAPHRAGM MATERIAL: R R = NBR W = FKM E = EPDM (on demand) BODY MATERIAL: 1 1 = brass 1 – uioss 2 = alimentary anti-limestone nickel-plated brass for high temperatures (on demand) 3 = alimentary nickel-plated brass (on demand) SOLENOID DIMENSION: **B7** B7 = 22 mm B8 = 30 mm B9 = 36 mm SOLENOID VOLTAGE: E B = 24V AC 50 Hz D = 110V AC 50/60 Hz E = 230V AC 50/60 Hz 2 = 12V DC 3 = 24V DC NOTE: for some directly operated 2/2 NO solenoid valves, the solenoid to be used is the B8°K type (see also the TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES on page 2/1.30.03).



TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES

For solenoids and their connectors see the dedicated section.

Mod. B8/B9 = mod.124-800

Mod. B7 = mod. 122-800

Mod.	24V AC 50 Hz	110V AC 50/60 Hz	220/230V AC 50/60 Hz	12V DC	24V DC
Pirectly operated solenoid valve,			.,		
P/2 and 3/2 NC, 2/2 NO PB-D21C-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D21F-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22C-W1- CFB-D22F-W1-	B8B (15VA) B8B (15VA)	B8D (15VA) B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22G-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA) B8E (15VA)	B82 (19W) B82 (19W)	B83 (19W) B83 (19W)
CFB-D22J-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA) **		
CFB-D23J-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA) **	not available	B93 (30W)
	B9B (29VA)		B9E (29VA) **	not available	B93 (30W)
CFB-D24M-W1-	D7D (27VA)	B9D (29VA)	DYE (ZYVA)	not available	not available
CFB-D31A-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D31D-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32A-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32D-W1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D11A-W1-	B8BK (15VA)	B8DK (15VA) **	B8EK (15VA) **	B82K (19W)	B83K (19W)
CFB-D12D-W1-	B8BK (15VA)	B8DK (15VA) **	B8EK (15VA) **	B82K (19W)	B83K (19W)
CFB-D13J-W1-	B9B (29VA)	B9D (29VA) **	B9E (29VA) **	not available	not available
(10 D13) W1	D7D (E7VA)	B70 (E7VA)	D/L(L/VA)	not avaitable	not avaitable
Directly operated solenoid valve with constrained diaphragm, 2/2 NC					
CFB-B23L-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-B24N-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-B25P-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-B26R-W1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
Indirectly operated solenoid valve,					
2/2 NC					
CFB-A23L-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A24N-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A25P-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A26R-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A27T-R1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-A28X-R1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-A29Z-R1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
Indirectly operated solenoid valve, 2/2 NO					
CFB-A13L-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A14N-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A15P-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
FB-A16R-R1-	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
CFB-A17T-R1-	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-A18X-R1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-A19Z-R1-	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
	* B7B solenoid with nominal bifrequency		** only to be used with nominal		

C₹ CAMOZZI

Directly operated 2/2 NC - NO and 3/2 NC solenoid valve

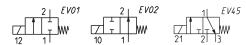


The direct control of these solenoid valves enables them to work with operating pressures which are equal to zero. Ports: G1/8 and G1/2.

DRAWING LEGEND:

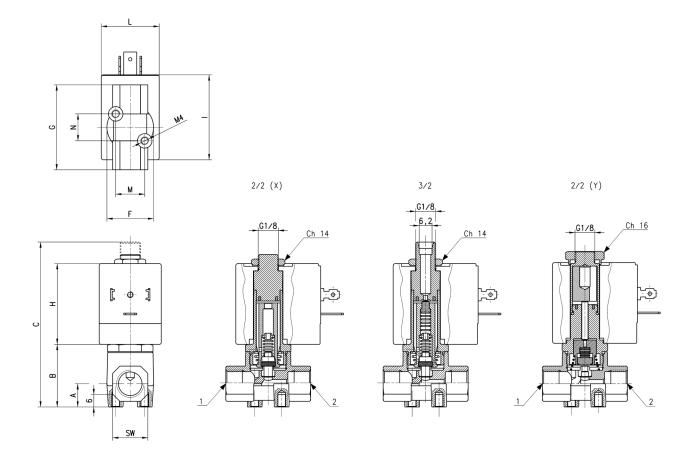
X = NC valve

Y = NO valve



- $\mbox{\ensuremath{^{\#}}}$ = choose the suitable solenoid according to the TABLE FOR THE COUPLING BETWEEN SOLENOID AND VALVES
- ** = the performances shown in the table refer to the use with inlet from "2" and outlet from "1".

 *** = 0 ÷ 4 with B9... solenoid



Mod. Function Ports Ø orifice (mm) Kv (m³/h) Pressure min+max (bar) A B C F G SW H I N M Symbol CFB-D21c-W1-** 2/2 NC G1/8 2.5 0.14 0÷15 [AC/DC] 11 30 73.8 23 41 17 30 13 14 EVO1 CFB-D21c-W1-** 2/2 NC G1/4 2.5 0.14 0÷15 [AC/DC] 11 30 73.8 23 41 17 39 41 30 13 14 EVO1 CFB-D22c-W1-** 2/2 NC G1/4 4 0.25 0÷6 [AC/DC] 12 31.5 75 26 41 17 39 41 30 13 14 EVO1 CFB-D22c-W1-** 2/2 NC G1/4 6 0.6 0÷2 [AC]-O+0.8 (DC] 15 45 89 37 55 27 39 47 36 22 22 EVO1 CFB-																		
CFB-D21F-W1-* 2/2 NC G1/8 4 0.25 0÷6[AC/DC] 11 30 73.8 23 41 17 39 41 30 13 14 EV01 CFB-D22C-W1-* 2/2 NC G1/4 2.5 0.14 0÷15[AC/DC] 11 30 73.8 23 41 17 39 41 30 13 14 EV01 CFB-D22F-W1-* 2/2 NC G1/4 4 0.25 0÷6[AC/DC]*** 12 31.5 75 26 41 17 39 41 30 13 14 EV01 CFB-D22G-W1-* 2/2 NC G1/4 6 0.6 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D24H-R1-* 2/2 NC G1/2 8 1 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 <td>Mod.</td> <td>Function</td> <td>Ports</td> <td>Ø Orifice (mm)</td> <td>Kv (m³/h)</td> <td>Pressure min÷max (bar)</td> <td>Α</td> <td>В</td> <td>С</td> <td>F</td> <td>G</td> <td>SW</td> <td>Н</td> <td>- 1</td> <td>L</td> <td>N</td> <td>М</td> <td>Symbol</td>	Mod.	Function	Ports	Ø Orifice (mm)	Kv (m³/h)	Pressure min÷max (bar)	Α	В	С	F	G	SW	Н	- 1	L	N	М	Symbol
CFB-D22C-W1-* 2/2 NC G1/4 2.5 0.14 0÷15[AC/DC] 11 30 73.8 23 41 17 39 41 30 13 14 EV01 CFB-D22F-W1-* 2/2 NC G1/4 4 0.25 0÷6[AC/DC] 12 31.5 75 26 41 17 39 41 30 13 14 EV01 CFB-D22G-W1-* 2/2 NC G1/4 6 0.6 0÷2.5[AC/DC]**** 12 31.5 75 26 41 17 39 41 30 13 14 EV01 CFB-D22G-W1-* 2/2 NC G3/8 8 1 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D24H-R1-* 2/2 NC G1/2 8 1 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 <td>CFB-D21C-W1-*</td> <td>2/2 NC</td> <td>G1/8</td> <td>2.5</td> <td>0.14</td> <td>0 ÷ 15 [AC / DC]</td> <td>11</td> <td>30</td> <td>73.8</td> <td>23</td> <td>41</td> <td>17</td> <td>39</td> <td>41</td> <td>30</td> <td>13</td> <td>14</td> <td>EV01</td>	CFB-D21C-W1-*	2/2 NC	G1/8	2.5	0.14	0 ÷ 15 [AC / DC]	11	30	73.8	23	41	17	39	41	30	13	14	EV01
CFB-D22F-W1-* 2/2 NC G1/4 4 0.25 0÷6[AC/DC] 12 31.5 75 26 41 17 39 41 30 13 14 EV01 CFB-D22F-W1-* 2/2 NC G1/4 6 0.6 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 41 30 13 14 EV01 CFB-D23F-R1-* 2/2 NC G3/8 8 1 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D24H-R1-* 2/2 NC G1/2 8 1 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D24H-R1-* 2/2 NC G1/2 13 2.4 0÷1[AC]-0 15 45 89 37 55 27 39 47 36 22 22 EV01	CFB-D21F-W1-*	2/2 NC	G1/8	4	0.25	0 ÷ 6 [AC / DC]	11	30	73.8	23	41	17	39	41	30	13	14	EV01
CFB-D22G-W1-* 2/2 NC G1/4 6 0.6 0÷2.5[AC/DC]**** 12 31.5 75 26 41 17 39 41 30 13 14 EV01 CFB-D23J-R1-** 2/2 NC G3/8 8 1 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D24J-R1-** 2/2 NC G1/2 8 1 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D24M-R1-** 2/2 NC G1/2 13 2.4 0÷1[AC]-0+0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D34M-R1-** 2/2 NC G1/2 13 2.4 0÷1[AC]-0+1 15 45 89 37 55 27 39 47 36 22 22 EV	CFB-D22C-W1-*	2/2 NC	G1/4	2.5	0.14	0 ÷ 15 [AC / DC]	11	30	73.8	23	41	17	39	41	30	13	14	EV01
CFB-D23J-R1-* 2/2 NC G5/8 8 1 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D24J-R1-* 2/2 NC G1/2 8 1 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D24J-R1-* 2/2 NC G1/2 13 2.4 0÷1[AC]-/ 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D31A-W1-* 2/2 NC G1/2 13 2.4 0÷1[AC]-/ 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D31A-W1-* 3/2 NC ** G1/8 1.4 0.06 0÷14[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 <	CFB-D22F-W1-*	2/2 NC	G1/4	4	0.25	0 ÷ 6 [AC / DC]	12	31.5	75	26	41	17	39	41	30	13	14	EV01
CFB-D24J-R1-* 2/2 NC G1/2 8 1 0÷2[AC]-0÷0.8[DC] 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D24M-R1-* 2/2 NC G1/2 13 2.4 0÷1[AC]-/ 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D31A-W1-* 2/2 NC ** G1/8 1.4 0.06 0÷14[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D31D-W1-* 3/2 NC ** G1/8 2.8 0.14 0÷5[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D32A-W1-* 3/2 NC ** G1/4 1.4 0.06 0÷14[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV4	CFB-D22G-W1-*	2/2 NC	G1/4	6	0.6	0 ÷ 2.5 [AC / DC] ***	12	31.5	75	26	41	17	39	41	30	13	14	EV01
CFB-D24M-R1-* 2/2 NC G1/2 13 2.4 0÷1[AC]-/ 15 45 89 37 55 27 39 47 36 22 22 EV01 CFB-D31A-W1-* 3/2 NC ** G1/8 1.4 0.06 0÷14[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D31D-W1-* 3/2 NC ** G1/8 2.8 0.14 0÷5[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D32A-W1-* 3/2 NC ** G1/4 1.4 0.06 0÷14[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D32A-W1-* 3/2 NC ** G1/4 2.8 0.14 0÷5[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14	CFB-D23J-R1-*	2/2 NC	G3/8	8	1	0 ÷ 2 [AC] - 0 ÷ 0.8 [DC]	15	45	89	37	55	27	39	47	36	22	22	EV01
CFB-D3IA-W1-* 3/2 NC ** G1/8 1.4 0.06 0÷14[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D3ID-W1-* 3/2 NC ** G1/8 2.8 0.14 0÷5[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D32A-W1-* 3/2 NC ** G1/4 1.4 0.06 0÷14[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D32A-W1-* 3/2 NC ** G1/4 2.8 0.14 0÷5[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D32D-W1-* 3/2 NC ** G1/4 2.8 0.14 0.5 [AC/DC] 11 30 75 23 41 17 39 41 30 13 14	CFB-D24J-R1-*	2/2 NC	G1/2	8	1	0 ÷ 2 [AC] - 0 ÷ 0.8 [DC]	15	45	89	37	55	27	39	47	36	22	22	EV01
CFB-D31D-W1-* 3/2 NC ** G1/8 2.8 0.14 0÷5[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D32A-W1-* 3/2 NC ** G1/4 1.4 0.06 0÷14[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D32D-W1-* 3/2 NC ** G1/4 2.8 0.14 0÷5[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D32D-W1-* 3/2 NC ** G1/4 2.8 0.14 0÷5[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D12-W1-* 2/2 NO G1/8 1.4 0.07 0÷22[AC 50Hz/DC] 11 30 75 23 41 17 39 41 30 13 14	CFB-D24M-R1-*	2/2 NC	G1/2	13	2.4	0 ÷ 1 [AC] - /	15	45	89	37	55	27	39	47	36	22	22	EV01
CFB-D32A-W1-* 3/2 NC ** G1/4 1.4 0.06 0÷14[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D32D-W1-* 3/2 NC ** G1/4 2.8 0.14 0÷5[AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D11A-W1-* 2/2 NO G1/8 1.4 0.07 0÷22[AC 50Hz/DC] 11 30 75 23 41 17 39 41 30 13 14 EV02 CFB-D12D-W1-* 2/2 NO G1/4 2.8 0.20 0÷7.5[AC 50Hz/DC] 11 30 75 23 41 17 39 41 30 13 14 EV02	CFB-D31A-W1-*	3/2 NC **	G1/8	1.4	0.06	0 ÷ 14 [AC / DC]	11	30	79.6	23	41	17	39	41	30	13	14	EV45
CFB-D32D-W1-* 3/2 NC ** G1/4 2.8 0.14 0 ÷ 5 [AC/DC] 11 30 79.6 23 41 17 39 41 30 13 14 EV45 CFB-D11A-W1-* 2/2 NO G1/8 1.4 0.07 0 ÷ 22 [AC 50Hz/DC] 11 30 75 23 41 17 39 41 30 13 14 EV02 CFB-D12D-W1-* 2/2 NO G1/4 2.8 0.20 0 ÷ 7.5 [AC 50Hz/DC] 11 30 75 23 41 17 39 41 30 13 14 EV02	CFB-D31D-W1-*	3/2 NC **	G1/8	2.8	0.14	0 ÷ 5 [AC / DC]	11	30	79.6	23	41	17	39	41	30	13	14	EV45
CFB-D11A-W1-* 2/2 NO G1/8 1.4 0.07 0÷22 [AC 50Hz/DC] 11 30 75 23 41 17 39 41 30 13 14 EV02 CFB-D12D-W1-* 2/2 NO G1/4 2.8 0.20 0÷7.5 [AC 50Hz/DC] 11 30 75 23 41 17 39 41 30 13 14 EV02	CFB-D32A-W1-*	3/2 NC **	G1/4	1.4	0.06	0 ÷ 14 [AC / DC]	11	30	79.6	23	41	17	39	41	30	13	14	EV45
CFB-D12D-W1-* 2/2 NO G1/4 2.8 0.20 0÷7.5[AC 50Hz/DC] 11 30 75 23 41 17 39 41 30 13 14 EV02	CFB-D32D-W1-*	3/2 NC **	G1/4	2.8	0.14	0 ÷ 5 [AC / DC]	11	30	79.6	23	41	17	39	41	30	13	14	EV45
	CFB-D11A-W1-*	2/2 NO	G1/8	1.4	0.07	0 ÷ 22 [AC 50Hz / DC]	11	30	75	23	41	17	39	41	30	13	14	EV02
CFB-D13J-W1-* 2/2 NO G3/8 8 1 0÷1.5[AC50Hz] 15 45 89 37 55 27 39 47 36 22 22 EV02	CFB-D12D-W1-*	2/2 NO	G1/4	2.8	0.20	0 ÷ 7.5 [AC 50Hz / DC]	11	30	75	23	41	17	39	41	30	13	14	EV02
	CFB-D13J-W1-*	2/2 NO	G3/8	8	1	0 ÷ 1.5 [AC 50Hz]	15	45	89	37	55	27	39	47	36	22	22	EV02



Directly oper. 2/2 NC solenoid valve with linked diaphragm

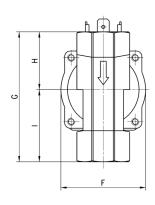


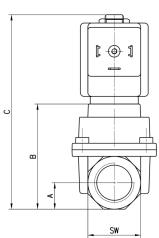
The diaphragm which is linked to the mobile plunger is a good arrangement between high fluid flow rates and working pressures (zero pressures as well). Ports: from G3/8 to G1.
The standard diaphragm is supplied in FKM.

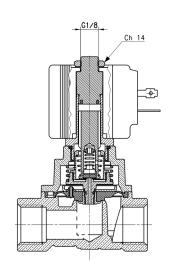


TABLE NOTE:

* = choose the suitable solenoid according to the TABLE FOR THE COUPLING BETWEEN SOLENOID AND VALVES







Mod.	Function	Ports	Ø Orifice (mm)	Kv (m ³ /h)	Pressure min÷max (bar)	Α	В	С	F	G	Н	1	SW
CFB-B23L-W1-*	2/2 NC	G3/8	11.5	2.1	0 ÷ 15 [AC] - 0 ÷ 8 [DC]	14	55.8	103.2	45	64	28.2	35.8	28
CFB-B24N-W1-*	2/2 NC	G1/2	13.5	2.5	0 ÷ 15 [AC] - 0 ÷ 8 [DC]	14	55.8	103.2	45	69	30.7	38.3	28
CFB-B25P-W1-*	2/2 NC	G3/4	18	5	0 ÷ 15 [AC] - 0 ÷ 5 [DC]	21	72	119.4	71	93	43.5	49.5	42
CFB-B26R-W1-*	2/2 NC	G1	26	8	0 ÷ 15 [AC] - 0 ÷ 5 [DC]	21	72	119.4	71	93	43.5	49.5	42

CAMOZZI Automation

Indirectly operated 2/2 NC solenoid valve



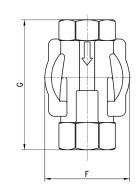
The pilot of these indirectly operated solenoid valves controls the diaphragm position through a differential pressure. These valves are therefore particularly suitable for controlling high fluid flow rates and require very low working pressures. Ports: from G3/8 to G2.

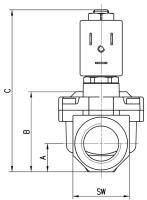
The standard diaphragm is supplied in NBR. On demand it can be supplied in FKM or EPDM.

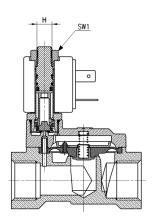


TABLE NOTE:

* = choose the suitable solenoid according to the TABLE FOR THE COUPLING BETWEEN SOLENOID AND VALVES







Mod.	Function	Ports	Ø Orifice (mm)	Kv (m³/h)	Pressure min÷max (bar)	Α	В	С	F	G	Н	SW	SW1
CFB-A23L-R1-*	2/2 NC	G3/8	11.5	2.6	0.1 ÷ 15 [AC / DC]	12	32.5	78.5	41.9	57	M8x0.75	24	13
CFB-A24N-R1-*	2/2 NC	G1/2	13.5	3.5	0.1 ÷ 15 [AC / DC]	15	39.7	85.7	45	69	M8x0.75	30	13
CFB-A25P-R1-*	2/2 NC	G3/4	18	5.8	0.2 ÷ 15 [AC / DC]	18	46.5	91.5	54.4	74	M8x0.75	34	13
CFB-A26R-R1-*	2/2 NC	G1	26	9.5	0.2 ÷ 12 [AC / DC]	22.5	59.8	104.5	71	93	M8x0.75	45	13
CFB-A27T-R1-*	2/2 NC	G1 1/4	32	12.5	0.4 ÷ 12 [AC 50 Hz / DC] - 0.4 ÷ 6 [AC 60 Hz]	27.5	73.5	130	86.6	111	G1/8	55	14
CFB-A28X-R1-*	2/2 NC	G1 1/2	45	31	0.4 ÷ 12 [AC 50 Hz / DC] - 0.4 ÷ 3.5 [AC 60 Hz]	31	85	138.3	110	138	G1/8	62	14
CFB-A29Z-R1-*	2/2 NC	G2	50	45	0.4 ÷ 12 [AC 50 Hz / DC] - 0.4 ÷ 3.5 [AC 60 Hz]	37.5	98.8	152	110	145	G1/8	75	14

Indirectly operated 2/2 NO solenoid valve



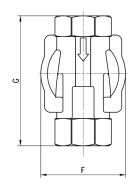
The pilot of these indirectly operated solenoid valves controls the diaphragm position through a differential pressure. These valves are therefore particularly suitable for controlling high fluid flow rates and require very low working pressures. Ports: from G3/8 to G2.

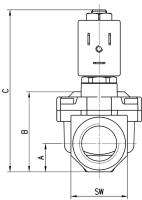
The standard diaphragm is supplied in NBR. On demand it can be supplied in FKM or EPDM.

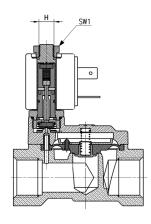


TABLE NOTE:

* = choose the suitable solenoid according to the TABLE FOR THE COUPLING BETWEEN SOLENOID AND VALVES







Mod.	Function	Ports	Ø Orifice (mm)	Kv (m³/h)	Pressure min÷max (bar)	Α	В	С	F	G	Н	SW	SW1
CFB-A13L-R1-*	2/2 NO	G3/8	11.5	2.6	0.1 ÷ 15 [AC / DC]	12	32.5	78.5	41.9	57	M8x0.75	24	13.5
CFB-A14N-R1-*	2/2 NO	G1/2	13.5	3.5	0.1 ÷ 15 [AC / DC]	15	39.7	85.7	45	69	M8x0.75	30	13.5
CFB-A15P-R1-*	2/2 NO	G3/4	18	5.8	0.2 ÷ 15 [AC / DC]	18	46.5	92.7	54.4	74	M8x0.75	36	13.5
CFB-A16R-R1-*	2/2 NO	G1	26	9.5	0.2 ÷ 12 [AC / DC]	22.5	59.8	104.5	71	93	M8x0.75	45	13.5
CFB-A17T-R1-*	2/2 NO	G1 1/4	32	12.5	0.4 ÷ 12 [AC / DC]	27.5	73.5	130	86.6	111	G1/8	55	14
CFB-A18X-R1-*	2/2 NO	G1 1/2	45	31	0.4 ÷ 10 [AC / DC]	31	85	138.3	110	138	G1/8	62	14
CFB-A19Z-R1-*	2/2 NO	G2	50	45	0.4 ÷ 10 [AC / DC]	37.5	98.8	152	110	145	G1/8	75	14



Series CFB stainless steel solenoid valves

2/2-way - Normally Closed (NC) 3/2-way - Normally Closed (NC)



Series CFB Stainless Steel directly operated solenoid valves for general purpose, 2/2-way and 3/2-way NC, are the ideal solution for a wide range of applications whereby the environment and fluids used can be particularly aggressive and contaminating. Special versions are available on demand.

- » Stainless steel version for particularly aggressive environment and fluids
- » High reliability over time, even in hard working conditions
- » Compact dimensions
- » Suitable to control inert and medical gases, alimentary fluids and beverages

The valve function is determined by a poppet and the operation is direct.
Different versions are available according to the nominal diameter and to the threaded ports, as shown in the following tables.
They can thus satisfy various requirements in terms of flow rates and working pressures.

GENERAL DATA

TECHNICAL FEATURES

Function 2/2 and 3/2 NC
Operation direct acting poppet type
Pneumatic connections G1/8 ... G1/2 threads
Nominal diameter 1.5 ... 4 mm
Nominal flow See KV

Nominal flow
Flow coefficient Kv (m³/h)
Operating pressure
Operating temperature

See Kv
0.08 ... 0.28
0 operating temperature
0 ÷ 4 ... 25 bar
-10°C ÷ +140°C

Media air, water, liquid and gaseous fluids with max viscosity 37 cSt (5° E)

Response time ON <15 msec - OFF <25 msec

Installation in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Bodystainless steel 316LSealsFKM (EPDM on demand)Internal partsstainless steel

ELECTRICAL FEATURES

Electrical connection

Voltage 12 V DC, 24 V DC - 24V AC 50 Hz, 110 V AC 50/60 Hz, 220/230 V AC 50/60 Hz

 Voltage tolerance
 ±5% (DC) - ±10% (AC)

 Power consumption
 19 W (DC) - 15 VA (AC)

 Duty cycle
 ED 100%

Protection class DIN 43650 connector, (A Shaped)

IP65 with connector

H (180°C)

Special versions available on demand

It is recommended to use connections with internal diameters bigger than valve orifices, otherwise there may be a performance change.



CODING EXAMPLE

CFB	-	D	2	1	Α	-	W	X	-	B8	E
CFB	SERIES										
D	OPERATION: D = direct										
2	NUMBER OF N 2 = 2/2-way 3 = 3/2-way		S:								
1	CONNECTION 1 = G1/8 2 = G1/4 3 = G3/8 4 = G1/2	S:									
Α	NOMINAL DIA A = 1.5 mm B = 2 mm C = 2.5 mm E = 3 mm F = 4 mm	AMETER:									
W	SEALS MATER W = FKM E = EPDM (on										
Х	BODY MATER X = stainless										
B8	SOLENOID DI B8 = 30 mm	MENSION:									
E	SOLENOID VO B = 24V AC 50 D = 110V AC 50 E = 230V AC 5 2 = 12V DC 3 = 24V DC	0 Hz 50/60 Hz									

TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES

See solenoids and connectors for solenoids in the dedicated section Mod. $B8 = \mbox{mod}.124\mbox{-}800$

* = complete the code according to coding example

Mod.	24V AC 50 Hz	110V AC 50/60 Hz	220/230V AC 50/60 Hz	12V DC	24V DC
CFB-D21A-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D21B*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D21C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22B-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D22E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D23E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D23F-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D24E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D24F-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32A-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32B-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-D32E-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)

CAMOZZI Automation

Directly operated solenoid valve, 2/2 and 3/2 NC



The direct control of these solenoid valves allows to operate with working pressures that are equal to

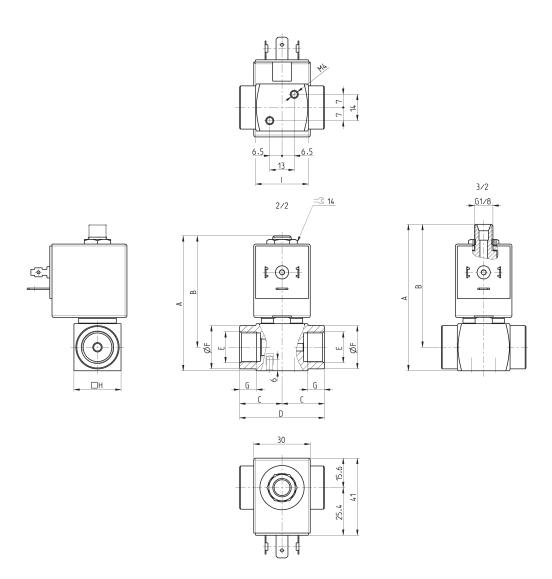
Ports: from G1/8 to G1/2.





TABLE NOTE:

** = choose the suitable solenoid according to the TABLE FOR THE COUPLING BETWEEN SOLENOID AND VALVES



Mod.	Function	Orifice Ø (mm)	Kv (m³/h)	Pressure min-max (bar)	Α	В	С	D	E	F	G	Н	- 1	Pneumatic symbol
CFB-D21AX-*	2/2 NC	1.5	80.0	0 ÷ 25	71.7	59.2	21	42	G1/8	15	8	25	29	EV01
CFB-D21BX-*	2/2 NC	2	0.10	0 ÷ 22	71.7	59.2	21	42	G1/8	15	8	25	29	EV01
CFB-D21CX-*	2/2 NC	2.5	0.14	0 ÷ 15	71.7	59.2	21	42	G1/8	15	8	25	29	EV01
CFB-D22BX-*	2/2 NC	2	0.10	0 ÷ 22	71.7	59.2	21	42	G1/4	18	8	25	28	EV01
CFB-D22CX-*	2/2 NC	2.5	0.14	0 ÷ 15	71.7	59.2	21	42	G1/4	18	8	25	28	EV01
CFB-D22EX-*	2/2 NC	3	0.18	0 ÷ 10	71.7	59.2	21	42	G1/4	18	8	25	28	EV01
CFB-D23EX-*	2/2 NC	3	0.18	0 ÷ 10	71.7	59.2	22.5	45	G3/8	23	9.5	25	28	EV01
CFB-D23FX-*	2/2 NC	4	0.28	0 ÷ 6	71.7	59.2	22.5	45	G3/8	23	9.5	25	28	EV01
CFB-D24EX-*	2/2 NC	3	0.18	0 ÷ 10	76.7	61.7	24.5	49	G1/2	27.5	11	30	31	EV01
CFB-D24FX-*	2/2 NC	4	0.28	0 ÷ 6	76.7	61.7	24.5	49	G1/2	27.5	11	30	31	EV01
CFB-D32AX-*	3/2 NC	1.5	0.08	0÷13	77.8	65.3	21	42	G1/4	18	8	25	28	EV45
CFB-D32BX-*	3/2 NC	2	0.1	0÷9	77.8	65.3	21	42	G1/4	18	8	25	28	EV45
CFB-D32CX-*	3/2 NC	2.5	0.14	0÷5.5	77.8	65.3	21	42	G1/4	18	8	25	28	EV45
CFB-D32EX-*	3/2 NC	3	0.18	0÷4	77.8	65.3	21	42	G1/4	18	8	25	28	EV45



Series 8 pneumatic operated cartridge valves

2/2-way - Normally Closed (NC)







- » Use with oxygen
- » Suitable also for general purpose
- » Compact design
- » High flow
- » Manifold assembly

Series 8 pneumatic operated valves are particularly suitable for applications requiring high flow combined wtih compact design.

The valve is pneumatic operated by electro-pilots which are dimensioned according to the size.

The cartridge design, which is ideal for manifold assembly, allows to reduce both dimensions and the number of pneumatic connections.

The standard function of the valve is 2/2way NC.

It can however fulfill the 3/2-way NC function if inserted in a proper seat (see the following pages).

GENERAL DATA

TECHNICAL FEATURES

Function

Operation pneumatic operated poppet type manifold cartridge Pneumatic connections

5 ... 9 mm Nominal diameter

420 ... 1480 Nl/min (air at 6 bar ΔP 1 bar) Nominal flow

Flow coefficient kv (l/min) 6.5 ... 23

Operating pressure 3 ÷ 6 bar (0 ÷ 6 bar with external pilot supply)

Operating temperature 0 ÷ +50°C

filtered air, class 5.4.4 according to ISO 8573-1 (max oil viscosity 32 cSt), inert gas Media

Response time (ISO 12238) ON <10 msec - OFF <10 msec in any position

Installation

MATERIALS IN CONTACT WITH THE MEDIUM

Body brass Internal parts aluminium Seals FKM

€ CAMOZZI



8	10	C5	1	00	-	F1	3	2	-	OX2
8	SERIES									
10	SIZE:									

20 = Size 2 30 = Size 3 BODY DESIGN: C5 = cartridge

NUMBER OF WAYS - FUNCTIONS: 1 = 2/2-way NC or 3/2-way NC

NOTE: The function depends on the seat used (for further details see the following pages)

PNEUMATIC CONNECTIONS: 00 = cartridge

NOMINAL DIAMETER:

F1 = Ø 5.0 mm (size 1 only)

G7 = Ø 6.6 mm (size 2 only)

K1 = Ø 9.0 mm (size 3 only)

SEAL MATERIAL: 3 = FKM

BODY MATERIAL: 2 = brass

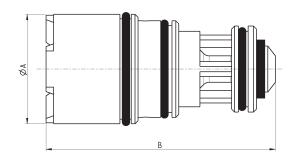
OX2 = for use with oxygen (non volatile residual less than 33 mg/m²)

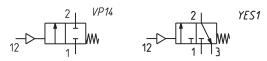
NOTE: the 0X2 suffix must be added also in case of use with air/gas.

Pneumatic cartridge valve 2/2-way NC



For 2/2-way (pneumatic symbol VP14) or 3/2-way (pneumatic symbol YES1) function, see the seat dimensioning in the next pages.



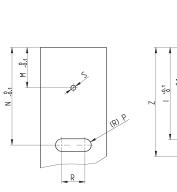


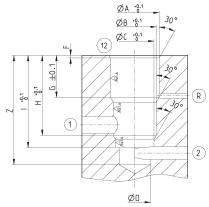
Mod.	ØA	В	Nominal diameter Ø (mm)	kv (l/min)	Qn (Nl/min)	Min/max pressure (bar)	Min/max pilot pressure (bar)
810C5100-F132-OX2	10	26.7	5.0	6.5	420	0 ÷ 6	3 ÷ 6
820C5100-G732-OX2	14.5	30.3	6.6	12.5	800	0 ÷ 6	3 ÷ 6
830C5100-K132-OX2	22	34.8	9.0	23	1480	0 ÷ 6	3 ÷ 6

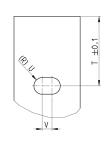
SERIES 8 CARTRIDGE VALVES

Seat for Series 8 pneumatic valve with 2/2-way NC function

NOTE IN THE DRAWING: 1 = inlet 2 = outlet 12 = pilot supply R = poppet chamber exhaust





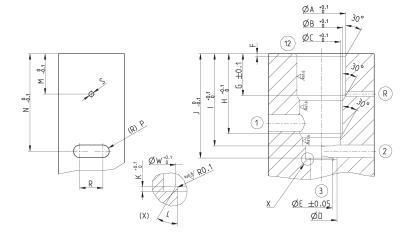


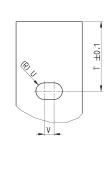
SERIE	8 8																
Size	А	В	С	D	F	G	Н	I	М	N	Р	R	S	T	U	V	Z
1	10.4	9.7	9	8.2	0.8	14.5	20.7	25	13.2	26.2	1.5	5	1.5	19.1	3	5	30
2	14.65	12.95	11.55	9.5	0.8	12.8	24.2	27.9	12.2	29.3	1.9	7	1.5	20.5	2.5	4	33
3	22.1	20.6	19.6	16.2	0.5	15	28.7	33.4	12.5	37.1	4	4.4	2.5	24.8	3.75	5	41

Seat for Series 8 pneumatic valve with 3/2-way NC function

NOTE IN THE DRAWING: 1 = inlet 2 = outlet 3 = exhaust 12 = pilot supply R = poppet chamber

exhaust





SERIE	S 8																				
Size	Α	В	С	D	Е	F	G	Н	T	J	К	L	М	N	Р	R	S	T	U	V	W
1	10.4	9.7	9	8.2	5	0.8	14.5	20.7	25	28	0.3	45	13.2	26.2	1.5	5	1.5	19.1	3	5	5.4
2	14.65	12.95	11.55	9.5	6.6	0.8	12.8	24.2	27.9	31.55	0.5	45	12.2	29.3	1.9	7	1.5	20.5	2.5	4	7
3	22.1	20.6	19.6	16.2	9	0.5	15	28.7	33.4	38.05	1	60	12.5	37.1	4	4.4	2.5	24.8	3.75	5	10

SOLENOID, PNEUMATIC AND MANIFOLD VALVES > SERIES 8 PNEUMATICALLY AND ELECTROPNEUMATICALLY OPERATED VALVES

Series 8 pneumatically and electropneumatically operated valves

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













- » High flow
- » Available in 3 different sizes for general purpose
- » Version for use with oxygen available

The Series 8 enlarges the range of versions available with the cartridge valve directly integrated in an anodized aluminium body comprising also the pilot solenoid valve. The new bodies enable to have pneumatically operated versions with external piloting or electropneumatically operated versions with both external and internal piloting.

GENERAL DATA

TECHNICAL SPECIFICATIONS

Function 2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO **Operation** pneumatic or electropneumatic

Pneumatic connections G1/8 - G1/4 - G3/8
Nominal diameter 5 ... 9 mm
Flow coefficient kv (l/min) 6.5 ... 23

Nominal flow 420 ... 1480 Nl/min (air at 6 bar ΔP 1 bar)
Operating pressure 3 ÷ 6 bar (0 ÷ 6 bar with external pilot supply)

External pilot pressure $3 \div 6$ bar Operating temperature $0 \div +50^{\circ}C$

Fluid filtered air class 5.4.4 according to ISO 8573-1 (oil viscosity max. 32 cSt), inert gases

Response times ON <10 msec - OFF <10 msec

Installation any position

MATERIALS IN CONTACT WITH FLUID

Body Aluminium
Seals FKM
Internal parts Aluminium - Brass

ELECTRICAL SPECIFICATIONS

Voltage24 V DC - other voltages upon requestVoltage toleranceSize $1 = \pm 10\%$ - Size 2 and 3 = -10% + 15%

Power consumption Size 1 = 1.3 W (inrush) 0.25 W (holding) – Size 2 and 3 = 2 W

Duty cycle ED 100%

Electrical connection connectors – wires (length = 300 mm)

Protection class Size 1 = IP50 - Size 2 and 3 = IP65 (with connector)



CODING EXAMPLE

8	10	C3	4	04	-	F1	3	1	Υ	-	N	00	20	C014	
---	----	-----------	---	----	---	----	---	---	---	---	---	----	----	------	--

8	SERIES
10	SIZE: 10 = Size 1 20 = Size 2 30 = Size 3
C3	TYPE OF BODY: C3 = threaded 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
04	PNEUMATIC CONNECTIONS: 04 = G1/8 (Size 1) 05 = G1/4 (Size 2) 06 = G3/8 (Size 3)
F1	NOMINAL DIAMETER: F1 = 5.0 mm (Size 1) G7 = 6.6 mm (Size 2) K1 = 9.0 mm (Size 3)
3	SEAL MATERIAL: 3 = FKM
1	BODY MATERIAL: 1 = aluminium
Υ	MANUAL OVERRIDE: N = not provided Y = provided monostable
N	MOUNTING ACCESSORIES: N = not provided
00	OPTIONS: 00 = no option PP = pneumatic piloting PE = electropilot with external piloting
2C	ELECTRICAL CONNECTION: 2C = connection type KN 90° + protection + led (Size 1) 2F = connection type KN 90° in line + protection + led (Size 1) 3A = connection DIN EN 175 301-803-C (8 mm) 4A = industry standard connection (9.4 mm) 7A = wires - length 300 mm (Size 2 - 3)
C014	VOLTAGE - POWER CONSUMPTION: C012 = 12V DC 1.3/0.25W (Size 1) C014 = 24V DC 1.3/0.25W (Size 1) C020 = 12V DC 2W (Size 2 - 3) C023 = 24V DC 2W (Size 2 - 3) C025 = 48V DC 2W (Size 2 - 3)
	VERSION: = standard OX1 = for use with oxygen (non volatile residual less than 550 mg/m²) OX2 = for use with oxygen (non volatile residual less than 33 mg/m²)

2.02.02

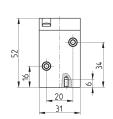


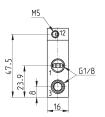
Pneumatic valve size 1 - 2/2- and 3/2-way, NC and NO













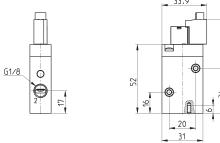
Mod.	Function		Pneumatic connection	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)	Min÷max pilot pressure (bar)	Pilot supply	Symbol
810C3104-F131N-NPP	2/2 NC	(for the NO function it is required to maintain a continuos pneumatic pilot supply)	G1/8	5.0	6.5	420	0 ÷ 6	3 ÷ 6	External	VP14
810C3404-F131N-NPP	3/2 NC	(for the NO function it is required to maintain a continuos pneumatic pilot supply)	G1/8	5.0	6.5	420	0 ÷ 6	3 ÷ 6	External	YES1

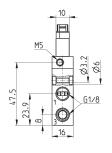
Solenoid valve size 1, 2/2- and 3/2-way, NC



* please complete the code with ELECTRIC CONNECTION (option 2C or 2F) and VOLTAGE (see the CODING EXAMPLE).















Mod.	Function	Pneumatic connection	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)	Min÷max pilot pressure (bar)	Pilot supply	Symbol
810C3104-F131Y-N00*	2/2 NC	G1/8	5.0	6.5	420	3 ÷ 6	-	Internal	EV62
810C3404-F131Y-N00*	3/2 NC	G1/8	5.0	6.5	420	3 ÷ 6	-	Internal	EV54
810C3104-F131Y-NPE*	2/2 NC	G1/8	5.0	6.5	420	0 ÷ 6	3 ÷ 6	External	EV61
810C3404-F131Y-NPE*	3/2 NC	G1/8	5.0	6.5	420	0 ÷ 6	3 ÷ 6	External	EV56

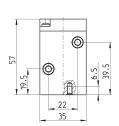
SERIES 8 PNEUMATICALLY AND ELECTROPNEUMATICALLY OPERATED

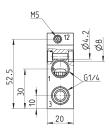
Pneumatic valve size 2 - 2/2- and 3/2-way, NC and NO











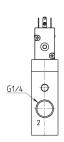


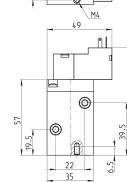
Mod.	Function		Pneumatic connection	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)	Min÷max pilot pressure (bar)	Pilot supply	Symbol
820C3105-G731N-NPP	2/2 NC	(for the NO function it is required to maintain a continuos pneumatic pilot supply)	G1/4	6.6	12.5	800	0 ÷ 6	3 ÷ 6	External	VP14
820C3405-G731N-NPP	3/2 NC	(for the NO function it is required to maintain a continuos pneumatic pilot supply)	G1/4	6.6	12.5	800	0 ÷ 6	3 ÷ 6	External	YES1

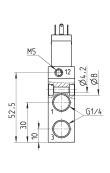
Solenoid valve size 2, 2/2- and 3/2-way, NC and NO



* please complete the code with ELECTRIC CONNECTION (option 3A, 4A o 7A) and VOLTAGE (see the CODING EXAMPLE).





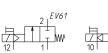


















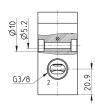
Mod.	Function	Pneumatic connection	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)	Min÷max pilot pressure (bar)	Pilot supply	Symbol
820C3105-G731Y-N00*	2/2 NC	G1/4	6.6	12.5	800	3 ÷ 6	-	Internal	EV62
820C3205-G731Y-N00*	2/2 NO	G1/4	6.6	12.5	800	3 ÷ 6	-	Internal	EV60
820C3405-G731Y-N00*	3/2 NC	G1/4	6.6	12.5	800	3 ÷ 6	-	Internal	EV54
820C3505-G731Y-N00*	3/2 NO	G1/4	6.6	12.5	800	3 ÷ 6	-	Internal	EV58
820C3105-G731Y-NPE*	2/2 NC	G1/4	6.6	12.5	800	0 ÷ 6	3 ÷ 6	External	EV61
820C3205-G731Y-NPE*	2/2 NO	G1/4	6.6	12.5	800	0 ÷ 6	3 ÷ 6	External	EV59
820C3405-G731Y-NPE*	3/2 NC	G1/4	6.6	12.5	800	0 ÷ 6	3 ÷ 6	External	EV56
820C3505-G731Y-NPE*	3/2 NO	G1/4	6.6	12.5	800	0 ÷ 6	3 ÷ 6	External	EV57

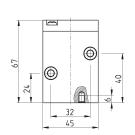


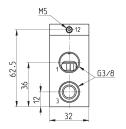
Pneumatic valve size 3 - 2/2- and 3/2-way, NC and NO











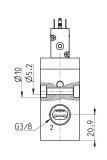


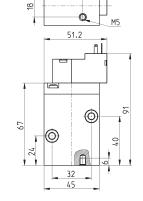
Mod.	Function		Pneumatic connection	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)	Min÷max pilot pressure (bar)	Pilot supply	Symbol
830C3106-K131N-NPP	2/2 NC	(for the NO function it is required to maintain a continuos pneumatic pilot supply)	G3/8	9.0	23	1480	0 ÷ 6	3 ÷ 6	External	VP14
830C3406-K131N-NPP	3/2 NC	(for the NO function it is required to maintain a continuos pneumatic pilot supply)	G3/8	9.0	23	1480	0 ÷ 6	3 ÷ 6	External	YES1

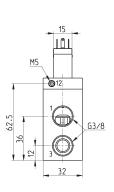
Solenoid valve size 3, 2/2- and 3/2-way, NC and NO



* please complete the code with ELECTRIC CONNECTION (option 3A, 4A o 7A) and VOLTAGE (see the CODING EXAMPLE).























Mod.	Function	Pneumatic connection	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)	Min÷max pilot pressure (bar)	Pilot supply	Symbol
830C3106-K131Y-N00*	2/2 NC	G3/8	9.0	23	1480	3 ÷ 6	-	Internal	EV62
830C3206-K131Y-N00*	2/2 NO	G3/8	9.0	23	1480	3 ÷ 6	-	Internal	EV60
830C3406-K131Y-N00*	3/2 NC	G3/8	9.0	23	1480	3 ÷ 6	-	Internal	EV54
830C3506-K131Y-N00*	3/2 NO	G3/8	9.0	23	1480	3 ÷ 6	-	Internal	EV58
830C3106-K131Y-NPE*	2/2 NC	G3/8	9.0	23	1480	0 ÷ 6	3 ÷ 6	External	EV61
830C3206-K131Y-NPE*	2/2 NO	G3/8	9.0	23	1480	0 ÷ 6	3 ÷ 6	External	EV59
830C3406-K131Y-NPE*	3/2 NC	G3/8	9.0	23	1480	0 ÷ 6	3 ÷ 6	External	EV56
830C3506-K131Y-NPE*	3/2 NO	G3/8	9.0	23	1480	0 ÷ 6	3 ÷ 6	External	EV57

SERIES TC SHUT-OFF MICRO-VALVES

Series TC shut-off micro-valves



2/2-way - Normally Closed (NC)





- » Compact design
- » High performance
- » Ease of installation
- » Compatibility between materials used and several gaseous fluids
- » Suitable for applications with oxygen

The principle of the Series TC1-V shut-off micro-valves is based on the actuation of a poppet by means of an operating pressure applied above it.

The poppet, once actuated, moves away from the tightening seal, permitting the flow of the intercepted fluid.

By removing the actuation pressure, the poppet repositions itself on the tightening seal by means of a spring positioned below that closes the flow of the fluid.

For its realization the most suitable materials for contact with fluids were selected. The body in PPS and the FKM tightening seals guarantee full compatibility with a wide range of gaseous fluids.

GENERAL DATA

Construction compact with pre-formed diaphragm

Materials see the TABLE OF MATERIALS

Ports cartridge construction in manifold - G1/8 or 1/8NPTF (only for aluminium body version)

Mounting in-line or cartridge (any position)

Operating temperature $-5^{\circ}\text{C} \div 50^{\circ}\text{C}$ Inlet pressure $0 \div 10 \text{ bar}$ Pilot pressure $0.6 \div 10 \text{ bar}$

Nominal flow 240 Nl/min (6 bar ΔP 1 bar)

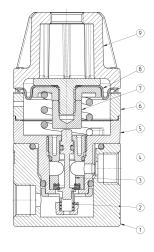
Medium air, inert/medical gases and oxygen



CODING EXAMPLE

TC	1	-	V	36	-	C	-	V	-	OX2
TC	SERIES									
1	SIZE									
V	VALVE									
36	CONSTRUCT 36 = pneum	ION: natic command								
С	PORTS: C = Cartridg 1/8 = G1/8 1/8TF = 1/8									
V	SEALS MATE V = FKM	RIAL:								
OX2			tile residue lower tile residue lower	than 550 mg/m²) than 33 mg/m²)						

Series TC shut-off micro-valves - materials



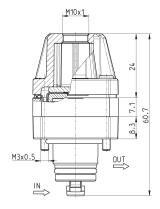
PARTS	MATERIALS	
1. Base body	Anodized aluminium	
2. Lower spring	Stainless steel	
3. Insert	PPS	
4. Poppet	Stainless steel	
5. Body	PPS	
6 Intermediate body	Anodized aluminium	
7. Valve guide	Polyamide	
8. Diaphragm	FKM	
9. Bell	Polyamide	
Seals	FKM	

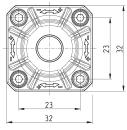
SERIES TC SHUT-OFF MICRO-VALVES



Series TC cartridge shut-off micro-valves









Mod.

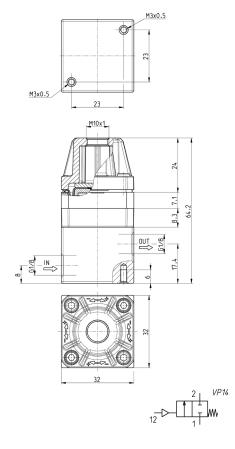
TC1-V36-C-V-OX1

TC1-V36-C-V-0X2

Series TC shut-off micro-valves with aluminium body



* to choose the type of thread (G1/8 or 1/8 NPTF) see the Coding example



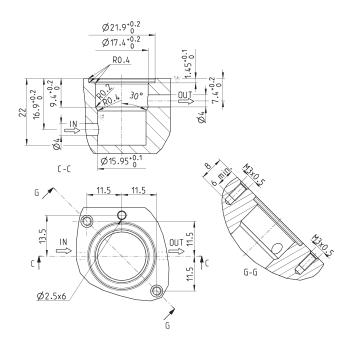
Mod.

TC1-V36-*-V-OX1

TC1-V36-*-V-0X2



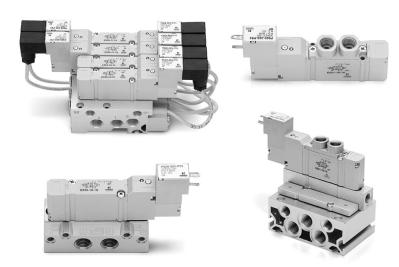
Seat dimensions for Series TC cartridge valve





Series E valves and solenoid valves

5/2-way monostable/bistable - 5/3 CC, CO, CP With outlets on the body - For individual or manifold assembly Size 10,5 mm



Series E valves have been designed to allow high flows with small overall dimensions. These valves are manufactured in three different sizes and are suitable for individual use or for mounting on manifolds. The manifolds allow a common inlet as well as the two exhausts and the pilot exhaust in common.

spool-type

class F

GENERAL DATA

Class of insulation

Protection class

Construction

Valve functions 5/2, 5/3 CC CO CP Materials zamak body, aluminium spool and sub-bases; technopolymer end-covers, joints NBR Ports valve = M5; manifold = M5 - tube Ø4; sub-base = G1/8 Temperature 0°C min + 50°C max Fluid filtered air (5 µm or lower), without lubricant; if lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted. Solenoid voltage see coding Voltage tolerance ±10% Power consumption



CODING EXAMPLE

E		2	1	_	11	_	10	_	К	1	3	
---	--	---	---	---	----	---	----	---	---	---	---	--

SERIES Ε

FUNCTION: 5

5 = 5/2 6 = 5/3 Centres Closed 7 = 5/3 Centres Open 8 = 5/3 Centres in Pressure

SIZE: 2

2 = 10,5 mm

1

BODY TYPE: 1 = body with threaded plate

ACTUATION:

11 = electro-pneumatic, bistable 16 = electro-pneumatic, monostable 33 = pneumatic bistable - tube 3

36 = pneumatic monostable - tube 4 C33 = pneumatic bistable - tube 4

C36 = pneumatic monostable - tube 4

INTERFACE: 10

TYPE OF SOLENOID: K

SOLENOID DIMENSION: 1 = 10x10

1

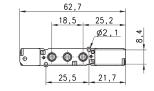
SOLENOID VOLTAGE: 1 = 6V DC 2 = 12V DC 3 = 24V DC 3

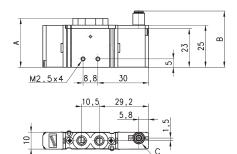
Pneumatically actuated valve, monostable - size 10,5

5/2-way



Note: the pilot pressure should never be lower than the operating pressure.





	4	2	VP07
			\exists
14	5 l	1 13	

Mod.	Α	В	С	Ports 1-3-5	Ports 2-4	Min pilot pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)
E521-36	29	33,4	Ø3	M5	M5	2,5	2,5 ÷ 7	200
E521-C36	29	39,1	Ø 4	M5	M5	2,5	2,5 ÷ 7	200

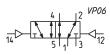


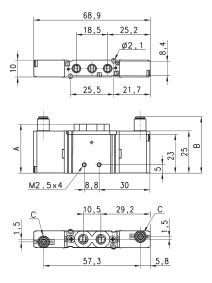
SERIES E VALVES AND SOLENOID VALVES

Pneumatically actuated valve, bistable - size 10,5

5/2-way







Mod.	Α	В	С	Ports 1-3-5	Ports 2-4	Min pilot pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)
E521-33	29	33,4	Ø 3	M5	M5	1	-09 ÷ 7	200
E521-C33	29	39.1	Ø 4	M5	M5	1	-09 ÷ 7	200

Pneumatically actuated valve - size 10,5

5/3-way

CC = Centres closed

CO = Centres open

CP = Pressure centres



25,5 21,7
M2.5×4 8.8 30
C 10,5 29,2 C
14 12 VP09 12 12 12 12 12 12 12 12 12 12 12 12 12

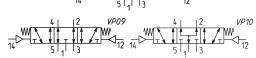
78,9

18,5

25,2

Ø2,1

Mod.	Α	В	С	Ports 1-3-5	Ports 2-4	Min pilot pressure (bar)	Working pressure (bar)	Flow rate NL/min	Symbol
E621-33	29	33.4	Ø3	M5	M5	2	-0.9 ÷ 7	200	VP08
E621-C33	29	39.1	Ø4	M5	M5	2	-0.9 ÷ 7	200	VP08
E721-33	29	33.4	Ø3	M5	M5	2	-0.9 ÷ 7	200	VP09
E721-C33	29	39.1	Ø 4	M5	M5	2	-0.9 ÷ 7	200	VP09
E821-33	29	33.4	Ø3	M5	M5	2	-0.9 ÷ 7	200	VP10
E821-C33	29	39.1	Ø 4	M5	M5	2	-0.9 ÷ 7	200	VP10

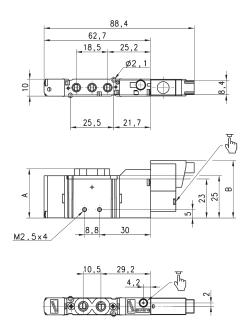


CAMOZZI Automation

Electropneumatically actuated valve, monostable - size 10,5

5/2-way







For solenoid valves with solenoid type K, use connector 121-8...

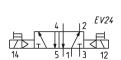
DIMENSIONS					
Mod.	Α	Ports 1-3-5	Ports 2-4	working P. (bar)	Flow rate (Nl/min)
E521-16-10-K1	29	M5	M5	2,5 ÷ 7	200

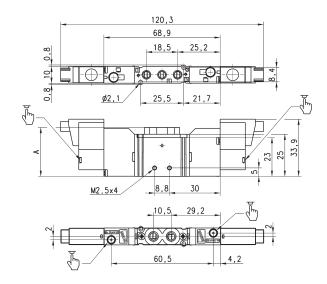
Electropneumatically actuated valve, bistable - size 10,5

5/2-way



Use connector Mod. Mod. 121-8..





Mod.	Α			working P. (bar)	Flow rate (Nl/min)
E521-11-10-K1	29	M5	M5	1 ÷ 7	200

SERIES E VALVES AND SOLENOID VALVES

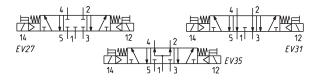
Electropneumatically actuated valve - size 10,5

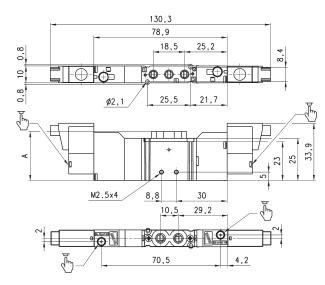
5/3-way CC = Centres Closed

CO = Centres Open

CP = Centres in Pressure

Use connector Mod. 121-8...





Mod.	Α	Ports 1-3-5	Ports 2-4	working P. (bar)	Flow rate (Nl/min)	Symbol
E621-11-10-K1	29	M5	M5	2 ÷ 7	200	EV27
E721-11-10-K1	29	M5	M5	2 ÷ 7	200	EV31
E821-11-10-K1	29	M5	M5	2 ÷ 7	200	EV35



CODING EXAMPLE

E 5 2 0	- 11	- 10	-	K	1	3
---------------	------	------	---	---	---	---

SERIES: Ε

FUNCTION: 5

5 = 5/2 6 = 5/3 Centres Closed 7 = 5/3 Centres Open 8 = 5/3 Centres in Pressure

SIZE: 2

2 = 10,5 mm

BODY TYPE: 0 = body for sub-base 0

ACTUATION:

11 = electropneumatic bistable 16 = electropneumatic monostable 33 = pneumatic bistable - tube Ø 3

36 = pneumatic monostable - tube Ø 3 C33 = pneumatic bistable - tube Ø 4

C36 = pneumatic monostable - tube Ø 4

INTERFACE: 10

K

TYPE OF SOLENOID:

SOLENOID DIMENSIONS: 1 = 10x10 1

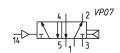
SOLENOID VOLTAGE: 1 = 6V DC 2 = 12V DC 3 = 24V DC 3

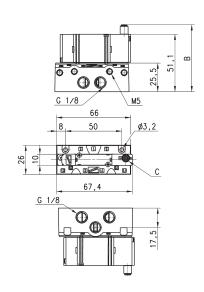
Pneumatically actuated valve, monostable - size 10,5



5/2-way

The single base is ordered separately from the valve. The pilot pressure should never be lower than the operating pressure.





DIMENSIONS					
Mod.	В	С	min. pil P. (bar)	working P. bar	Flow rate (Nl/min)
E520-36	59,5	Ø3	2,5	2,5 ÷ 7	280
E520-C36	65,2	Ø4	2,5	2,5 ÷ 7	280

SERIES E VALVES AND SOLENOID VALVES

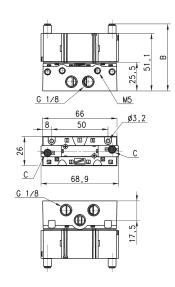
Pneumatically actuated valve, bistable - size 10,5

5/2-way



The single base is ordered separately from the valve.





DIMENSIONS					
Mod.	В	С	min. pil P. (bar)	working P. (bar)	Flow rate (Nl/min)
E520-33	59,5	Ø3	1	-0,9 ÷ 7	280
E520-C33	65.2	Ø4	1	-0.9 ÷ 7	280

Pneumatically actuated valve - size 10,5



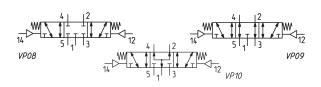
5/3-way

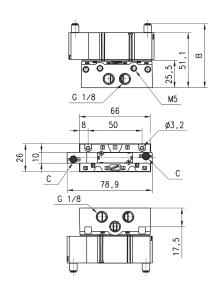
CC = Centres Closed

CO = Centres Open

CP = Centres in Pressure

The single base is ordered separately from the valve.





DIMENSIONS						
Mod.	В	С	min. pil P. (bar)	working P. (bar)	Flow rate (Nl/min)	Symbol
E620-33	59,5	Ø3	2	-0,9 ÷ 7	280	VP08
E620-C33	65,5	Ø4	2	-0,9 ÷ 7	280	VP08
E720-33	59,5	Ø3	2	-0,9 ÷ 7	280	VP09
E720-C33	65,5	Ø4	2	-0,9 ÷ 7	280	VP09
E820-33	59,5	Ø3	2	-0;9 ÷ 7	280	VP10
E820-C33	65,5	Ø4	2	-0,9 ÷ 7	280	VP10



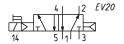
Electropneumatically actuated valve, monostable - size 10,5

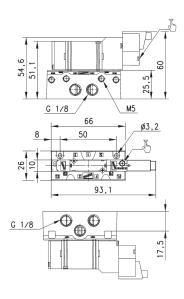
5/2-way



In case of separate pilot supply, the pilot pressure should never be lower than the operating pressure.

The single base is ordered separately from the valve.





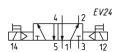
DIMENSIONS		
Mod.	working P. (bar)	Flow rate (Nl/min)
E520-16-10-K1	2 ÷ 7	280

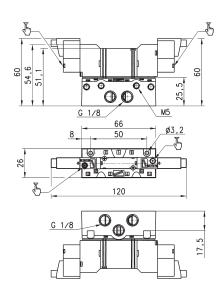
Electropneumatically actuated valve, bistable - size 10,5

5/2-way



The single base is ordered separately from the valve.





Mod.	working P. bar	Flow rate Nl/min
E520-11-10-K1	2 ÷ 7	280



Electropneumatically actuated valve - size 10,5

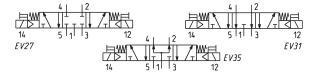


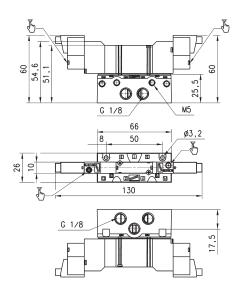
5/3-way CC = Centres Closed

CO = Centres Open

CP = Centres in Pressure

The single base is ordered separately from the valve





Mod.	working P. bar	Flow rate Nl/min	Symbol
E620-11-10-K1	2 ÷ 7	280	EV27
E720-11-10-K1	2 ÷ 7	280	EV31
E820-11-10-K1	2 ÷ 7	280	EV35



Torque for securing screws on manifolds and single sub-base

Mod.	Size (mm)	Torque (Nm)
E52	10,5	0,3 ÷ 0,35

CODING EXAMPLE

	E 5	2	2 1	-	1	0	02
--	------------	---	-----	---	---	---	----

E5	SERIES
2	SIZE: 2 = size 10,5
1	BODY TYPE: 0 = body for sub-base assembly 1 = body with threads or tube port
1	TYPE OF SUB-BASE: 0 = single sub-base with side outlets 1 = manifold for threaded valve 2 = manifold for body mounted valve
0	PORTS: 0 = for valves with outlets on the body 1 = threaded C = tube 4
02	N° OF POSITIONS: 01 = single 03, 04, 06, 08, 10, 12 = multiple

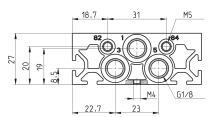
NOTE: When constructing manifolds with 10 or more stations, it is recommended, in order to reduce the risk of pressure drop within the assembly, that pressure is supplied to port 1 at each end of the block. The exhaust ports 3 and 5 at each end should also be utilized (size 10,5 and 16 mm). The same provision should be made for 5 station manifolds of the 19 mm valves. Manifolds complete with ports for external pilot supply are available on request.

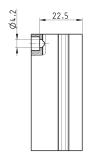


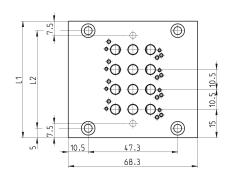
Manifolds for valves with outlets on the body Size 10,5



The manifolds have been manufactured with common inlet and exhausts 3 and 5. There are also common exhausts for pilots 82 and 84.







Note: the manifolds are supplied complete with the seals and the valves, fixing screws.

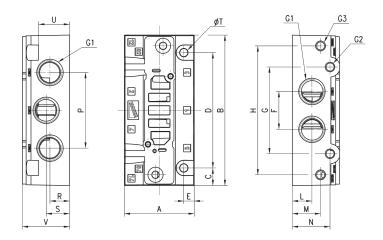
DIMENSIONS													
Mod.	Size	Nr positions	02	03	04	05	06	07	80	09	10	11	12
E521-10	10.5	L1	40.5	51	61.5	72	82.5	93	103.5	114	124.5	135	145.5
E521-10	10.5	L2	30.5	41	51.5	62	72.5	83	93.5	104	114.5	125	135.5

CAMOZZI

Single sub-base for base mounted valves - size 10,5



Note: The valve and its single sub-base are available on request.

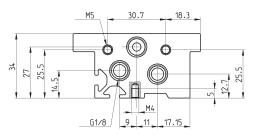


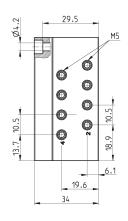
DIMENSIONS																					
Mod.	Size	G1	G2	G3	Α	В	С	D	Е	F	G	Н	L	М	N	Р	R	S	T	U	V
E520-0101	10,5	G1/8	M5	M5	26	66	8	50	4	15	37,3	57,3	8,2	17	18	24,5	8,2	17,2	32	17,5	25,5

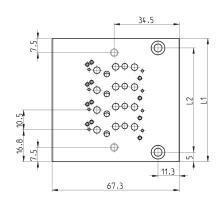
Manifolds for base mounted valves size 10,5



The manifolds have been manufactured with common inlet 1 and exhaust 3 and 5. There are also common exhausts for pilots 82 and 84.







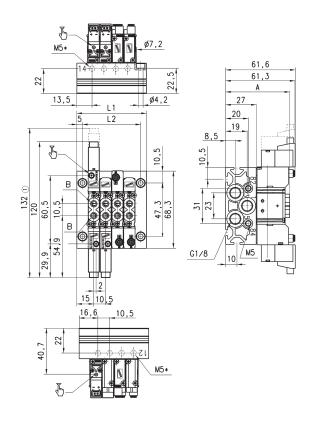
DIMENSIONS													
Mod.	Size	Nr positions	02	03	04	05	06	07	80	09	10	11	12
E520-21	10.5	L1	44	54.5	65	75.5	86	96.5	107	117.5	128	138.5	149
E520-21	10.5	L2	34	44.5	55	65.5	76	86.5	97	107.5	118	128.5	139
E520-2C	10.5	L1	44	54.5	65	75.5	86	96.5	107	117.5	128	138.5	149
E520-2C	10.5	L2	34	44.5	55	65.5	76	86.5	97	107.5	118	128.5	139

CAMOZZI Automation

Manifolds with valves with outlets on the body - size 10.5

5/2 and 5/3, ports M5





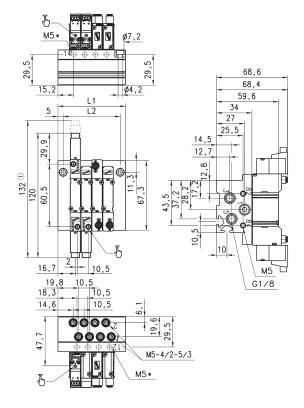
DIMEN:	SIONS				
Mod.	А	В	L1 - L2 N° 1 Position	L1 - L2 N° 2 Positions	Fixed quote for position
E521	56,6	M5	40,5 - 30,5	51 - 41	10,5
E52C	65.1	4/2	40.5 - 30.5	51 - 41	10.5

Size referred to 5/3 valve M5* Separate pilot supply on request.

Manifolds with valves for subbase - size 10.5

5/2 and 5/3





DIMENSION	S										
N° Positions	2	3	4	5	6	7	8	9	10	11	12
L1	44	54,5	65	75,5	86	96,5	107	117,5	128	138,5	149
L2	34	44,5	55	65,5	76	86,5	97	107,5	118	128,5	139

(1) Size referred to 5/3 valve M5* Separate pilot supply on request.

SERIES E VALVES AND SOLENOID VALVES

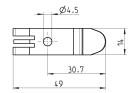
Mounting brackets for DIN rail



DIN EN 50022 (7,5mm x 35mm - width 1) Suitable for all manifolds.

Supplied with: 2x plates 2x screws M4x6 UNI 5931



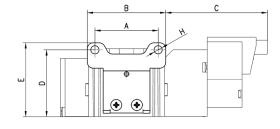


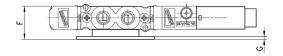
Mod.

Horizontal mounting foot bracket for valves with outlets on the body



The following is supplied: 1x foot bracket 2x screws.



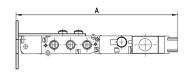


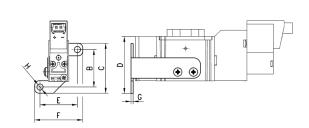
DIMENSIONS											
Mod.	Size	Α	В	С	D	Е	F	G	Н		
B1-E521	10,5	27	33,5	43,4	28,5	31,5	14,2	1,2	3,5		

Vertical mounting foot bracket for valves with outlets on the body



The following is supplied: 1x foot bracket 2x screws Monostable valves only.





DIMENSION	1S								
Mod.	Size	Α	В	С	D	E	F	G	Н
B2-E521	10,5	90,8	21	28	31,9	21	27	1,2	3.5

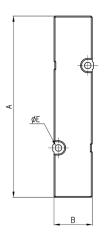


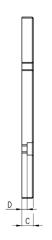
Blanking plate for manifolds - valves with outlets on the body

The following is supplied: 1x blanking plate

2x screws 1x seal.







DIMENSION	S					
Mod.	Size	Α	В	С	D	_ø Ε
TP-E521	10,5	66	10	6	3,5	2,1

Blanking plate for manifolds - base mounted valves

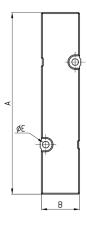
The following is supplied:

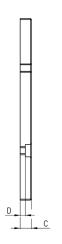
1x blanking plate

2x screws

1x seal.







DIMENSIONS	S					
Mod.	Size	Α	В	С	D	øΕ
TP-F520	10.5	66	10	6	3.5	2.1

Intermediate plate for valves to provide a separate supply in 1



Base mounted valves. The following is supplied: 1x plate

2x screws

1x interface seal

2x O-Ring.

٥					
ì		(h)		((
A					
	(
		В	С		

DIMENSIONS								
Mod.	Size	А	В	С	D	E		
PCP-F521	10.5	72.5	10	10	5	M5		

C CAMOZZI

Intermediate plate for valves to provide a separate supply in 1



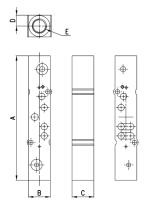
Base mounted valves. The following is supplied:

1x plate

2x screws

1x interface seal

2x OR.



DIMENSIONS						
Mod.	Size	Α	В	С	D	E
PCP-E520	10,5	72,5	10	10	5	M5

Intermediate plate for valves to provide separate supply in 3 and 5



Kits for valves with outlets on the body

Mod. E2*1-**.

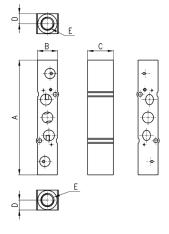
The following is supplied:

1x plate

2x screws

1x interface seal

2x OR.



DIMENSIONS						
Mod.	Size	А	В	С	D	E
PCS-E521	10,5	76	10	10	5	M5

Intermediate plate for valves to provide separate supply in 3 and 5



Kits for valves mounted on sub-base Mod. E2*0-**.

The following is supplied:

1x plate 2x screws

1x interface seal

2x OR.

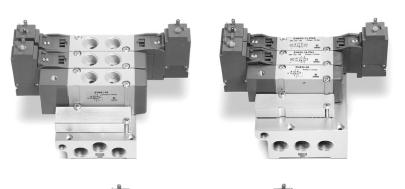
	<u>E</u>		
V V		<u>c</u>	
	E		I

DIMENSIONS						
Mod.	Size	Α	В	С	D	E
PCS-E520	10,5	76	10	10	5	M5



Series EN valves and solenoid valves

5/2-way - 5/3-way CC, CO, CP With outlets on the body - For individual or manifold assembly Size 16 - 19 mm



- » Mounting on any flat surface
- » Reduced dimensions
- » Aluminium body and endcovers in technopolymer
- » Space saving



Camozzi has developed a new series of valves to be used in applications requiring a reduced space of installation and in situations where the valves need to be located as near as possible to the operating elements. The single valves can be mounted on any flat surface, allowing compact machine design, which is also enhanced by the reduced dimensions of the valve itself.

Thanks to their robust aluminium bodies, the valves Series EN offer the highest reliability.

This new generation of solenoid valves is the evolution of the previous Series E, size 16 - 19 mm valve with ports threaded into the body. As this valve is completely interchangeable with Series E, part of the code is maintained though the valve has a completely new shape and new components.

GENERAL DATA

Ports

Construction spool-type

Valve functions 5/2 - 5/3 CC - 5/3 CO - 5/3 CP

Materials body, spool, bases = AL
end-covers = tecnnopolymer

joints = NBR PU G1/8 - G1/4

Temperature 0°C min. + 50° C max

Fluid filtered air without lubricant. If lubricated air is used, it is recommended to use ISOVG32 oil and to never interrupt lubrication.

Voltage see coding
Voltage tolerance ± 10%
Power consumption 2W, 1W
Class of insulation class F

Protection class IP65 with connector DIN 40050



CODING EXAMPLE

EN	5	3	1	-	11	-	PN3
----	---	---	---	---	----	---	-----

EN	SERIES
5	FUNCTION: 5 = 5/2 6 = 5/3 Centre Closed 7 = 5/3 Centre Open 8 = 5/3 Pressure Centre
3	SIZE: 3 = size 16 5 = size 19
1	BODY TYPE: 1 = body with threaded plate
11	ACTUATION: 11 = electro-pneumatic, bistable 16 = electro-pneumatic, monostable 33 = pneumatic bistable 65 = electro-pneumatic monostable 61 = electro-pneumatic, bistable with external servo-pilot supply 61 = electro-pneumatic, monostable with external servo-pilot supply
PN3	TYPE OF SOLENOID: PN3 = 24V DC - 1W PN4 = 48V DC - 2W PN6 = 110V DC - 2W PN7 = 250V - 2W PS3 = 24V DC - 1W PS4 = 48V DC - 2W WS5 = 24V DC - 2W WS5 = 24V DC - 2W WS5 = 24V DC - 2W
	In case of applications with alternate current, use a bridge rectifier connector (see pag. 2/2.07.39)



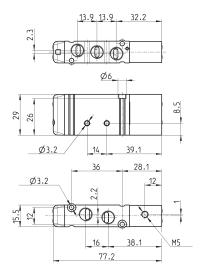
Pneumatically actuated valve, monostable - size 16

5/2-way



Note: the pilot pressure should never be lower than the operating pressure.



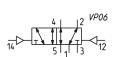


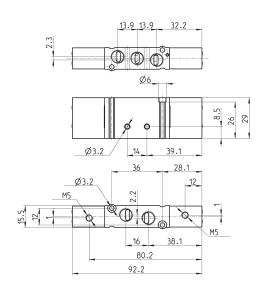
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN531-36	G1/8	M5	2,5 ÷ 10	-0.9 ÷ 10	550

Pneumatically actuated valve, bistable - size 16

5/2-way







Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN531-33	G1/8	M5	2 ÷ 10	-0.9 ÷ 10	550

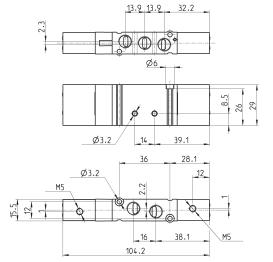
Pneumatically actuated valve - size 16

5/3-way CC = Centres closed

CO = Centres open

CP = Pressure Centres





	4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 12 12 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	ZW ₁₂
VP08	14	4 2 4 5 1 3 5 1 3 5 1 1 3 VP10	VP09

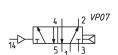
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN631-33	G1/8	M5	3 ÷ 10	-0.9 ÷ 10	550	VP08
EN731-33	G1/8	M5	3 ÷ 10	-0.9 ÷ 10	550	VP09
EN831-33	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	550	VP10

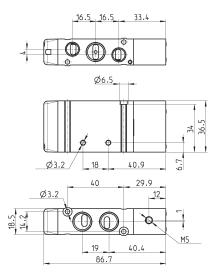
Pneumatically actuated valve, monostable - size 19

5/2-way



Note: the pilot pressure should never be lower than the operating pressure.





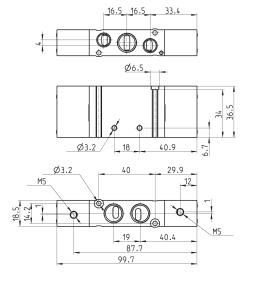
Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN551-36	G1/4	G1/8	M5	2.5 ÷ 10	-0.9 ÷ 10	920

C₹ CAMOZZI

Pneumatically actuated valve, bistable - size 19

5/2-way





	4	12	VP06
14	11		-<1 <u>12</u>

Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN551-33	G1/4	G1/8	M5	2 ÷ 10	-0,9 ÷ 10	920

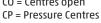
Pneumatically actuated valve - size 19

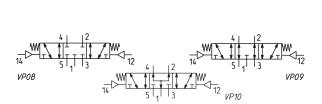
5/3-way

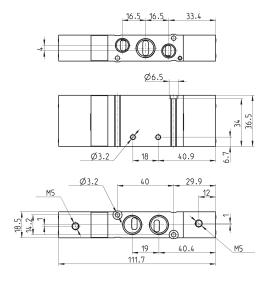
CC = Centres closed

CO = Centres open









Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN651-33	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	VP08
EN751-33	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	VP09
EN851-33	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	VP10

Electro-pneumatically actuated valve, monostable - size 16

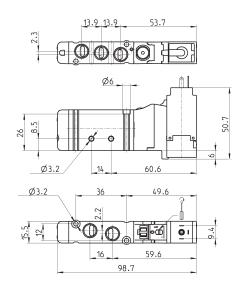
5/2-way



Connectors at the end of this

section





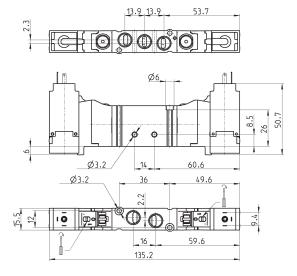
Mod.	Ports	Operating pressure (bar)	Flow (Nl/min)
EN531-16-PN	G1/8	2,5 ÷ 10	550

Electro-pneumatically actuated valve, bistable - size 16

5/2-way







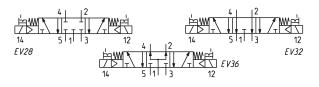
Mod.	Ports	Operating pressure (bar)	Flow (Nl/min)
EN531-11-PN	G1/8	2 ÷ 10	550

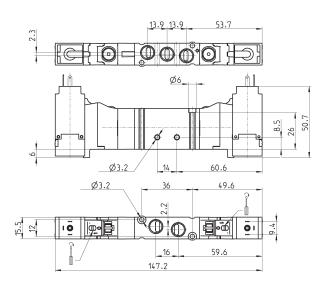
Electro-pneumatically actuated valve - size 16



5/3-way CC = Centres Closed CO = Centres Open CP = Pressure Centres

Connectors at the end of this section





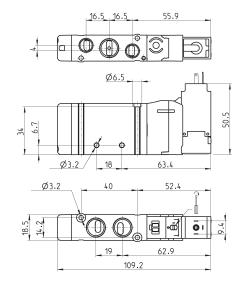
Mod.	Ports	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN631-11-PN	G1/8	3 ÷ 10	550	EV28
EN731-11-PN	G1/8	3 ÷ 10	550	EV32
EN831-11-PN	G1/8	3 ÷ 10	550	EV36

Electro-pneumatically actuated valve, monostable - size 19

5/2-way







Mod.	Ports 1-2-4	Ports 3-5	Operating pressure (bar)	Flow (Nl/min)
EN551-16-PN	G1/4	G1/8	2,5 ÷ 10	920

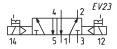
Electro-pneumatically actuated valve, bistable - size 19

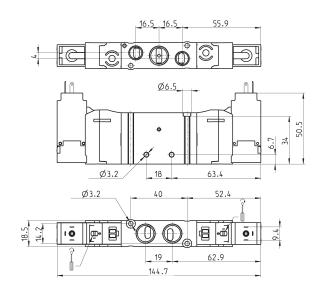
5/2-way



Connectors at the end of this section

Section





Mod.	Ports 1-2-4	Ports 3-5	Operating pressure (bar)	Flow (Nl/min)
EN551-11-PN	G1/4	G1/8	2 ÷ 10	920

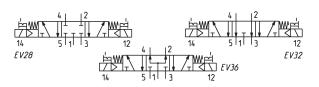
Electro-pneumatically actuated valve - size 19

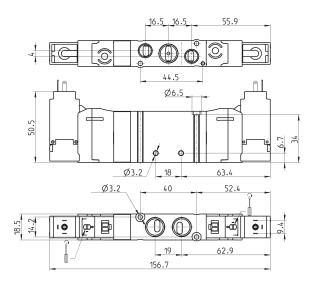
5/3-way

CC = Centres Closed

CO = Centres Open

CP = Pressure Centres





Mod.	Ports 1-2-4	Ports 3-5	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN651-11-PN	G1/4	G1/8	3 ÷ 10	920	EV28
EN751-11-PN	G1/4	G1/8	3 ÷ 10	920	EV32
EN851-11-PN	G1/4	G1/8	3 ÷ 10	920	EV36

C₹ CAMOZZI

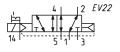
Electro-pneum. valve, monostable - ext. servo-pilot supply - size 16

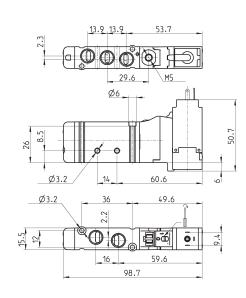
5/2-way



Connectors at the end of this

section





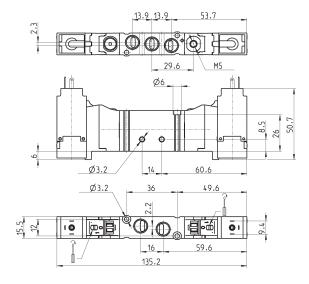
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN531-E16-PN	G1/8	M5	2,5 ÷ 10	- 0,9 ÷ 10	550

Electro-pneum. valve, bistable - ext. servo-pilot supply - size 16

5/2-way







Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN531-E11-PN	G1/8	M5	2 ÷ 10	-0,9 ÷ 10	550

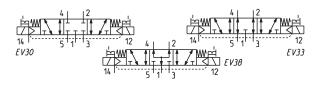
Electro-pneum. valve - ext. servo-pilot supply - size 16

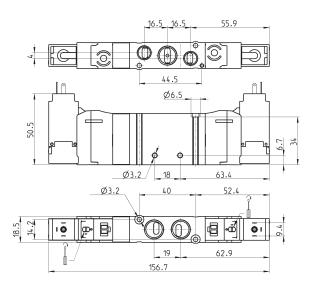


5/3-way CC = Centres Closed CO = Centres Open

CP = Pressure Centres

Connectors at the end of this section





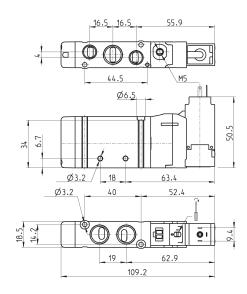
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN631-E11-PN	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV30
EN731-E11-PN	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV33
EN831-E11-PN	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV38

Electro-pneum. valve, monostable - ext. servo-pilot supply - size 19

5/2-way







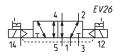
Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN551-E16-PN	G1/4	G1/8	M5	2,5 ÷ 10	- 0,9 ÷ 10	920

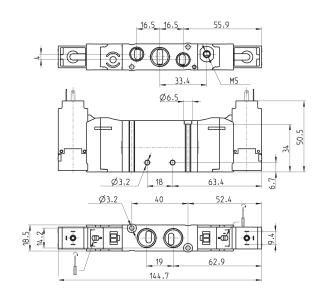
Electro-pneum. valve, bistable - ext. servo-pilot supply - size 19

5/2-way



Connectors at the end of this section





Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN551-E11-PN	G1/4	G1/8	M5	2 ÷ 10	-0,9 ÷ 10	920

Electro-pneum. valve - ext. servo-pilot supply - size 19

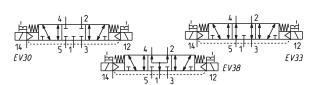
5/3-way

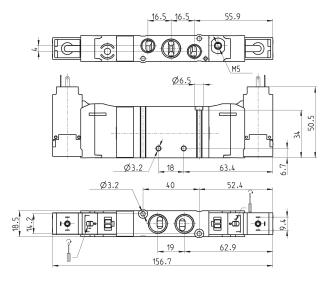
CC = Centres Closed

CO = Centres Open

CP = Pressure Centres







Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN651-E11-PN	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV30
EN751-E11-PN	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV33
EN851-E11-PN	G1/4	G1/8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV38

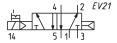
Electro-pneum. valve, monostable, solenoid P, W - size 16

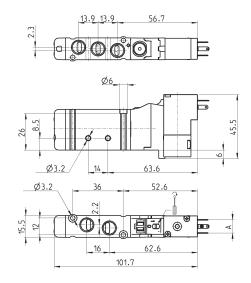
5/2-way



Connectors at the end of this

section





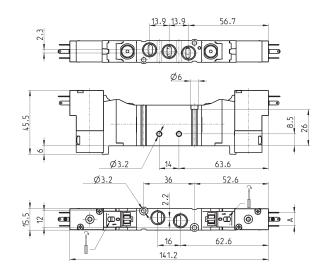
Mod.	Ports	A	Operating pressure (bar)	Flow (Nl/min)
EN531-16-P13	G1/8	9,4	2,5 ÷ 10	550
EN531-16-P54	G1/8	9,4	2,5 ÷ 10	550
EN531-16-P56	G1/8	9,4	2,5 ÷ 10	550
EN531-16-W53	G1/8	8	2,5 ÷ 10	550
EN531-16-W54	G1/8	8	2,5 ÷ 10	550

Electro-pneum. valve, bistable, solenoid P, W - size 16

5/2-way







Mod.	Ports	А	Operating pressure (bar)	Flow (Nl/min)
EN531-11-P13	G1/8	9,4	2 ÷ 10	550
EN531-11-P54	G1/8	9,4	2 ÷ 10	550
EN531-11-P56	G1/8	9,4	2 ÷ 10	550
EN531-11-W53	G1/8	8	2 ÷ 10	550
EN531-11-W54	G1/8	8	2 ÷ 10	550

Electro-pneumatic valve, solenoid P, W - size 16

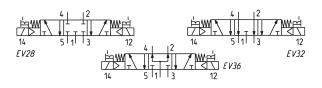
- 100, 1-10

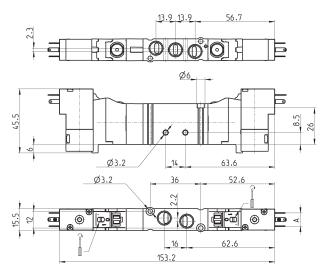
5/3-way CC = Centres Closed

CO = Centres Open

CP = Pressure Centres

Connectors at the end of this section





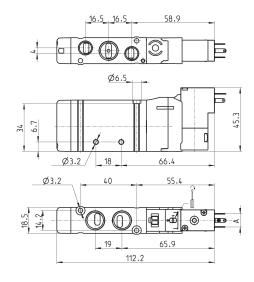
Mod.	Ports	А	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN631-11-P	G1/8	9,4	3 ÷ 10	550	EV28
EN731-11-P	G1/8	9,4	3 ÷ 10	550	EV32
EN831-11-P	G1/8	9,4	3 ÷ 10	550	EV36
EN631-11-W	G1/8	8	3 ÷ 10	550	EV28
EN731-11-W	G1/8	8	3 ÷ 10	550	EV32
EN831-11-W	G1/8	8	3 ÷ 10	550	EV36

Electro-pneum. valve, monostable, solenoid P, W - size 19

5/2-way







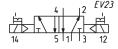
Mod.	Ports 1-2-4	Ports 3-5	Α	Operating pressure (bar)	Flow (Nl/min)
EN551-16-P13	G1/4	G1/8	9,4	2,5 ÷ 10	920
EN551-16-P54	G1/4	G1/8	9,4	2,5 ÷ 10	920
EN551-16-P56	G1/4	G1/8	9,4	2,5 ÷ 10	920
EN551-16-W53	G1/4	G1/8	8	2,5 ÷ 10	920
EN551-16-W54	G1/4	G1/8	8	2,5 ÷ 10	920

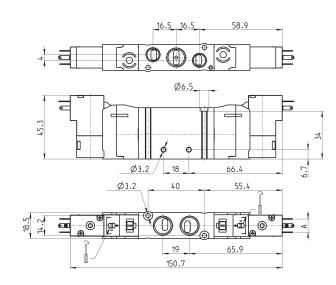
Electro-pneum. valve, bistable, solenoid P, W - size 19

5/2-way



Connectors at the end of this section





Mod.	Ports 1-2-4	Ports 3-5	Α	Operating pressure (bar)	Flow (Nl/min)
EN551-11-P13	G1/4	G1/8	9,4	2 ÷ 10	920
EN551-11-P54	G1/4	G1/8	9,4	2 ÷ 10	920
EN551-11-P56	G1/4	G1/8	9,4	2 ÷ 10	920
EN551-11-W53	G1/4	G1/8	8	2 ÷ 10	920
EN551-11-W54	G1/4	G1/8	8	2 ÷ 10	920

Electro-pneumatic valve, solenoid P, W - size 19

5/3-way

CC = Centres Closed

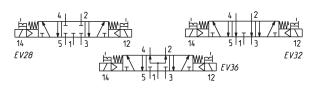
CO = Centres Open

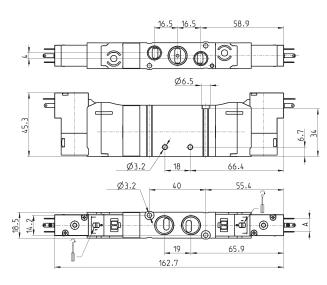
CP = Pressure Centres



Connectors at the end of this

section





Mod.	Ports 1-2-4	Ports 3-5	Α	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN651-11-P	G1/4	G1/8	9,4	3 ÷ 10	920	EV28
EN751-11-P	G1/4	G1/8	9,4	3 ÷ 10	920	EV32
EN851-11-P	G1/4	G1/8	9,4	3 ÷ 10	920	EV36
EN651-11-W	G1/4	G1/8	8	3 ÷ 10	920	EV28
EN751-11-W	G1/4	G1/8	8	3 ÷ 10	920	EV32
EN851-11-W	G1/4	G1/8	8	3 ÷ 10	920	EV36

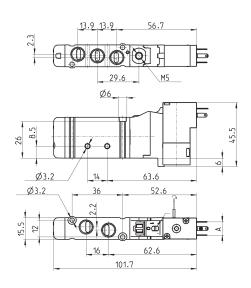
Electro-pneum. valve, monost. ext. servo-pilot sup., sol. P/W - size 16

5/2-way



Connectors at the end of this section



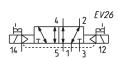


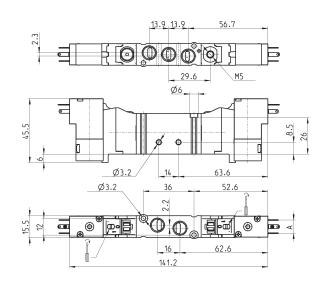
Mod.	Ports	А	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN531-E16-P	G1/8	9,4	M5	2,5 ÷ 10	-0,9 ÷ 10	550
EN531-E16-W	G1/8	8	M5	2,5 ÷ 10	-0,9 ÷ 10	550

Electro-pneum. valve, bistable ext. servo-pilot sup., sol. P/W - size 16

5/2-way







Mod.	Ports	Α	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN531-E11-P	G1/8	9,4	M5	2 ÷ 10	-0,9 ÷ 10	550
EN531-E11-W	G1/8	8	M5	2 ÷ 10	-0,9 ÷ 10	550

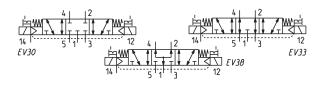


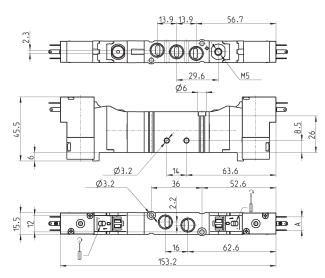
Electro-pneum. valve, ext. servo-pilot supply, solenoid P, W - size 16

5/3-way CC = Centres Closed CO = Centres Open

CP = Pressure Centres

Connectors at the end of this section





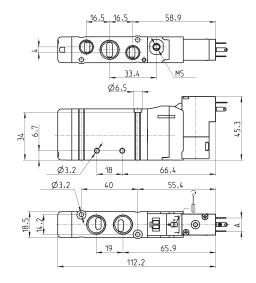
Mod.	Ports	Α	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN631-E11-P	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	550	EV30
EN731-E11-P	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	550	EV33
EN831-E11-P	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	550	EV38
EN631-E11-W	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV30
EN731-E11-W	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV33
EN831-E11-W	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV38

Electro-pneum. valve, monost. ext. servo-pilot sup., sol. P/W - size 19

5/2-way







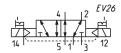
Mod.	Ports 1-2-4	Ports 3-5	Α	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN551-E16-P	G1/4	G1/8	9,4	M5	2,5 ÷ 10	-0,9 ÷ 10	920
EN551-E16-W	G1/4	G1/8	8	M5	2,5 ÷ 10	-0,9 ÷ 10	920

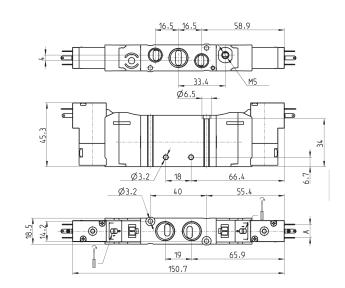
Electro-pneum. valve, bistable ext. servo-pilot sup., sol. P/W - size 19

5/2-way



Connectors at the end of this section





Mod.	Ports 1-2-4	Ports 3-5	Α	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN551-E11-P	G1/4	G1/8	9,4	M5	2 ÷ 10	-0,9 ÷ 10	920
EN551-E11-W	G1/4	G1/8	8	M5	2 ÷ 10	-0,9 ÷ 10	920

Electro-pneum. valve, ext. servo-pilot supply, solenoid P, W - size 19

5/3-way

CC = Centres Closed

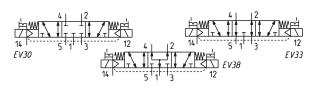
CO = Centres Open

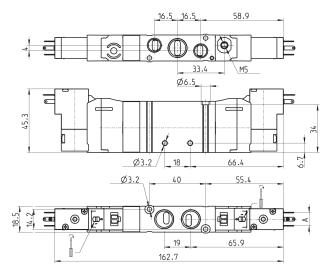
CP = Pressure Centres



Connectors at the end of this

section



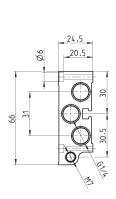


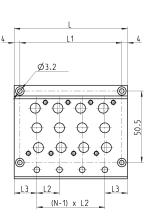
Mod.	Ports 1-2-4	Ports 3-5	Α	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN651-E11-P	G1/4	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	920	EV30
EN751-E11-P	G1/4	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	920	EV33
EN851-E11-P	G1/4	G1/8	9,4	M5	3 ÷ 10	-0,9 ÷ 10	920	EV38
EN651-E11-W	G1/4	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV30
EN751-E11-W	G1/4	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV33
EN851-E11-W	G1/4	G1/8	8	M5	3 ÷ 10	-0,9 ÷ 10	920	EV38



Manifold for valves size 16 and 19 (outlets on the body valve)





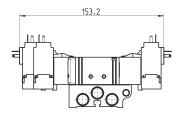


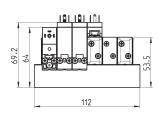
Mod.	Nr of valve positions	L	L1	L2	L3
EN531-1002	2	48	40	16	16
EN531-1003	3	64	56	16	16
EN531-1004	4	80	72	16	16
EN531-1005	5	96	88	16	16
EN531-1006	6	112	104	16	16
EN531-1008	8	144	136	16	16
EN531-1010	10	176	168	16	16
EN531-1012	12	208	200	16	16
EN551-1002	2	53	45	19	17
EN551-1003	3	72	64	19	17
EN551-1004	4	91	83	19	17
EN551-1005	5	110	102	19	17
EN551-1006	6	129	121	19	17
EN551-1008	8	167	159	19	17
EN551-1010	10	205	197	19	17
EN551-1012	12	243	235	19	17

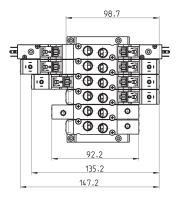
Manifolds complete with valves with outlets on the body - size 16

ports G1/8





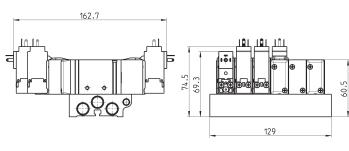


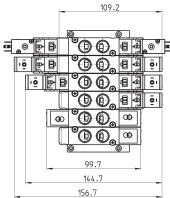


Manifolds complete with valves with outlets on the body - size 19

ports G1/4









CODING EXAMPLE

EN	5	3	0	-	11	-	PN3
----	---	---	---	---	----	---	-----

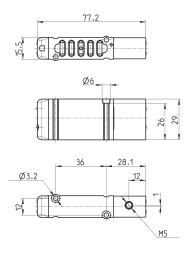
EN	SERIES
5	FUNCTION: 5 = 5/2 6 = 5/3 Centre Closed 7 = 5/3 Centre Open 8 = 5/3 Pressure Centre
3	SIZE: 3 = size 16 5 = size 19
0	BODYTYPE: 0 = body for sub-base
11	ACTUATION: 11 = electro-pneumatic, bistable 16 = electro-pneumatic, monostable 33 = pneumatic bistable 36 = pneumatic monostable E11 = electro-pneumatic, bistable with external servo-pilot supply E16 = electro-pneumatic, monostable with external servo-pilot supply
PN3	TYPE OF SOLENOID: PN3 = 24V DC - 1W PN4 = 48V DC - 2W PN6 = 110V DC - 2W PN7 = 230V - 2W PN7 = 230V - 2W PN8 = 24V DC - 1W PS4 = 48V DC - 2W PS6 = 110V DC - 2W WS5 = 24V DC - 2W WS5 = 24V DC - 2W WS6 = 48V DC - 2W
	In case of applications with alternate current, use a bridge rectifier connector (see connectors at the end of this section)

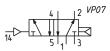


Monostable pneumatic valve with outlets on sub-base - size 16

5/2-way





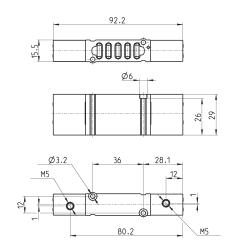


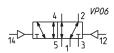
Mod.	Pilot supply	min. pilot Pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)
EN530-36	M5	2,5	2,5 ÷ 10	610

Bistable pneumatic valve with outlets on sub-base - size 16

5/2-way







Mod.	Pilot supply	min. pilot pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)
EN530-33	M5	2	-0,9 ÷ 10	610

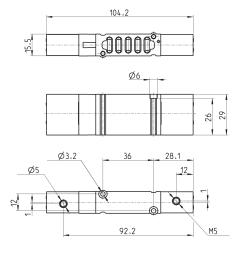
Pneumatically actuated valve with outlets on sub-base - size 16

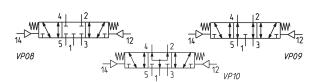
5/3-way CC = Centres Closed

CO = Centres Open

CP = Centres in Pressure





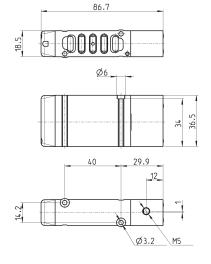


Mod.	Pilot supply	min. pilot pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)	Symbol
EN630-33	M5	3	-0,9 ÷ 10	610	VP08
EN730-33	M5	3	-0,9 ÷ 10	610	VP09
EN830-33	M5	3	-0,9 ÷ 10	610	VP10

Pneumatic valve, monostable with outlets on sub-base - size 19

5/2-way





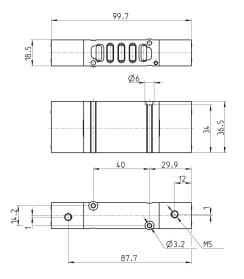
	4	2	VP07
14	Į,	7	\exists
	5	'1' '3	

Mod.	Pilot supply	min. pilot pressure (bar)	working P. (bar)	Flow rate (Nl/min)
EN550-36	M5	2,5	2 ÷ 10	1000

Pneumatic valve, bistable with outlets on sub-base - size 19

5/2-way







Mod.	Pilot supply	min. pilot pressure (bar)	Working pressure (bar)	Flow rate Nl/min
EN550-33	M5	2	-0,9 ÷ 10	1000

Pneumatically actuated valve with outlets on sub-base - size 19

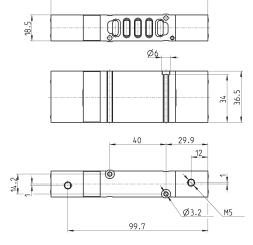
5/3-way

CC = Centres Closed

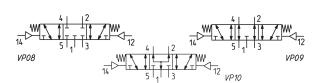
CO = Centres Open

CP = Centres in Pressure





111.7



Mod.	Pilot supply	min. pilot pressure (bar)	working P. bar	Flow rate Nl/min	Symbol
EN650-33	M5	3	-0,9 ÷ 10	1000	VP08
EN750-33	M5	3	-0,9 ÷ 10	1000	VP09
EN850-33	M5	3	-0,9 ÷ 10	1000	VP10

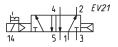
Electropneumatic valve, monostable with outlets on sub-base - s. 16

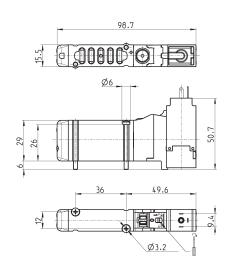
5/2-way



Connectors at the end of this

section



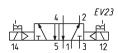


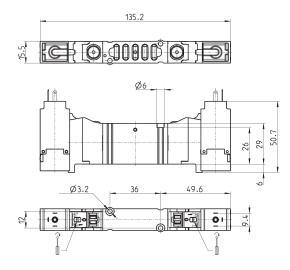
Mod.	Working pressure (bar)	Flow rate (NI/min)
EN530-16-PN	2,5 ÷ 10	610

Electropneumatic valve, bistable with outlets on sub-base - size 16

5/2-way







Mod.	Working pressure (bar)	Flow rate (NI/min)
EN530-11-PN	2 ÷ 10	610

C∢ CAMOZZI

Electropneumatical valve with outlets on sub-base - size 16

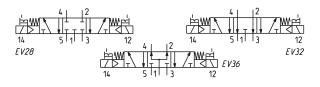


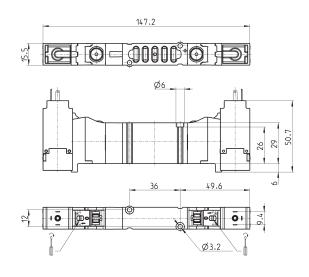
5/3-way CC = Centres Closed

CO = Centres Open

CP = Centres in Pressure

Connectors at the end of this section



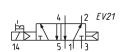


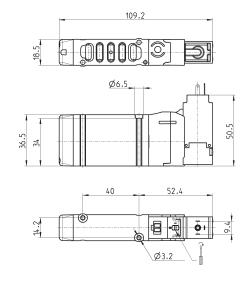
Mod.	Working pressure (bar)	Flow rate (Nl/min)	Symbol
EN630-11-PN	3 ÷ 10	610	EV28
EN730-11-PN	3 ÷ 10	610	EV32
EN830-11-PN	3 ÷ 10	610	EV36

Electropneumatic valve, monostable with outlets on sub-base - s. 19

5/2-way







Mod.	Working pressure (bar)	Flow rate (Nl/min)
EN550-16-PN	2,5 ÷ 10	1000

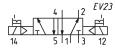
Electropneumatic valve, bistable with outlets on sub-base - size 19

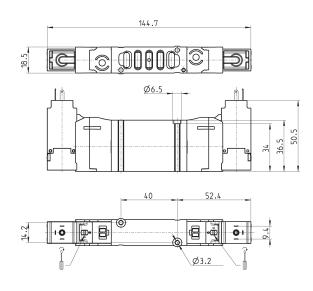
5/2-way



Connectors at the end of this

section





Mod.	Working presure (bar)	Flow rate (Nl/min)
EN550-11-PN	2 ÷ 10	1000

Electropneumatical valve with outlets on sub-base - size 19

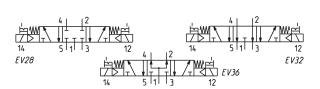
5/3-way

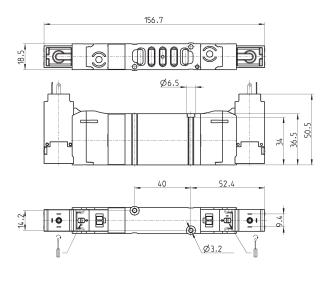
CC = Centres Closed

CO = Centres Open

CP = Centres in Pressure







Mod.	Working pressure (bar)	Flow rate (Nl/min)	Symbol
EN650-11-PN	3 ÷ 10	1000	EV28
EN750-11-PN	3 ÷ 10	1000	EV32
EN850-11-PN	3 ÷ 10	1000	EV36



Electro-pn. monost. valve, ext. pilot supply, outlets on sub-base - s. 16

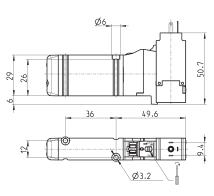
5/2-way



98.7

Connectors at the end of this section





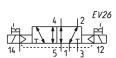
Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN530-E16-PN	2,5 ÷ 10	- 0,9 ÷ 10	610

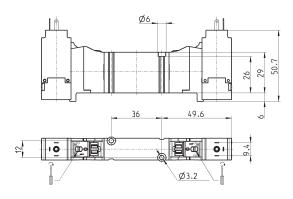
Electro-pn. bistable valve, ext. pilot supply, outlets on sub-base - s. 16

5/2-way



135.2





Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN530-E11-PN	2 ÷ 10	-0,9 ÷ 10	610

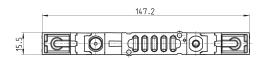
Electro-pneumatic valve, ext. pilot supply, outlets on sub-base - s. 16



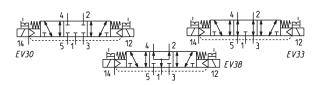
5/3-way CC = Centres Closed

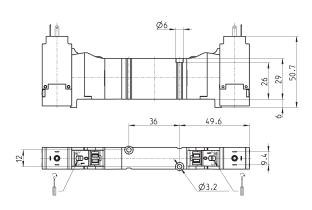
CO = Centres Open

CP = Centres in Pressure



Connectors at the end of this section





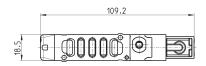
Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN630-E11-PN	3 ÷ 10	-0,9 ÷ 10	610	EV30
EN730-E11-PN	3 ÷ 10	-0,9 ÷ 10	610	EV33
EN830-E11-PN	3 ÷ 10	-0,9 ÷ 10	610	EV38

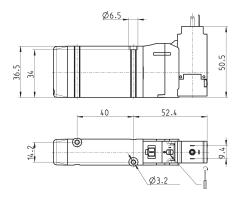
Electro-pn. monost. valve, ext. pilot supply, outlets on sub-base - s. 19

5/2-way









Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN550-E16-PN	2,5 ÷ 10	- 0,9 ÷ 10	1000



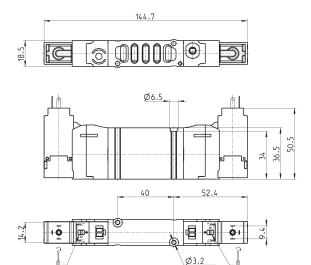
Electro-pn. bistable valve, ext. pilot supply, outlets on sub-base - s. 19

5/2-way



Connectors at the end of this section





Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN550-E11-PN	2 ÷ 10	-0,9 ÷ 10	1000

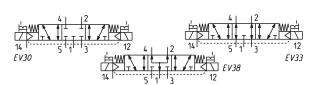
Electro-pneumatic valve, ext. pilot supply, outlets on sub-base - s. 19

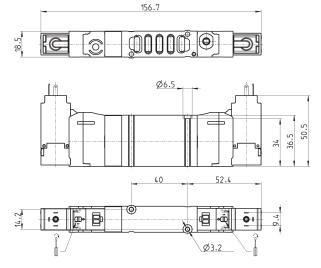
The second secon

5/3-way CC = Centres Closed

CO = Centres Open

CP = Centres in Pressure





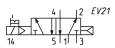
Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN650-E11-PN	3 ÷ 10	-0,9 ÷ 10	1000	EV30
EN750-E11-PN	3 ÷ 10	-0,9 ÷ 10	1000	EV33
EN850-E11-PN	3 ÷ 10	-0,9 ÷ 10	1000	EV38

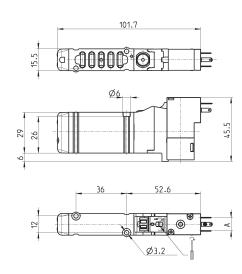
Electro-pn. monostable valve, sol. P / W, outlets on sub-base - s. 16

5/2-way



Connectors at the end of this section



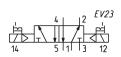


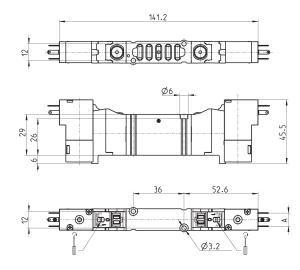
Mod.	А	Operating pressure (bar)	Flow (Nl/min)
EN530-16-P13	9,4	2,5 ÷ 10	610
EN530-16-P54	9,4	2,5 ÷ 10	610
EN530-16-P56	9,4	2,5 ÷ 10	610
EN530-16-W53	8	2,5 ÷ 10	610
EN530-16-W54	8	2,5 ÷ 10	610

Electro-pn. bistable valve, sol. P / W, outlets on sub-base - size 16

5/2-way







Mod.	Α	Operating pressure (bar)	Flow (Nl/min)
EN530-11-P13	9,4	2 ÷ 10	610
EN530-11-P54	9,4	2 ÷ 10	610
EN530-11-P56	9,4	2 ÷ 10	610
EN530-11-W53	8	2 ÷ 10	610
EN530-11-W54	8	2 ÷ 10	610

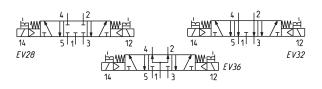
Electro-pneumatic valve, sol. P / W, outlets on sub-base - size 16

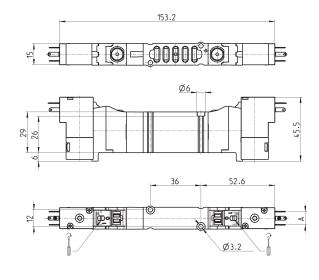
5/3-way CC = Centres Closed

CO = Centres Open

CP = Centres in Pressure

Connectors at the end of this section



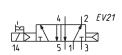


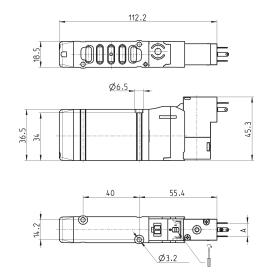
Mod.	A	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN630-11-P	9,4	3 ÷ 10	610	EV28
EN730-11-P	9,4	3 ÷ 10	610	EV32
EN830-11-P	9,4	3 ÷ 10	610	EV36
EN630-11-W	8	3 ÷ 10	610	EV28
EN730-11-W	8	3 ÷ 10	610	EV32
EN830-11-W	8	3 ÷ 10	610	EV36

Electro-pn. monostable valve, sol. P / W, outlets on sub-base - s. 19

5/2-way







Mod.	Operating pressure (bar)	Flow (Nl/min)
EN550-16-P13	2,5 ÷ 10	1000
EN550-16-P54	2,5 ÷ 10	1000
EN550-16-P56	2,5 ÷ 10	1000
EN550-16-W53	2,5 ÷ 10	1000
EN550-16-W54	2,5 ÷ 10	1000

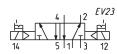
Electro-pn. bistable valve, sol. P / W, outlets on sub-base - size 19

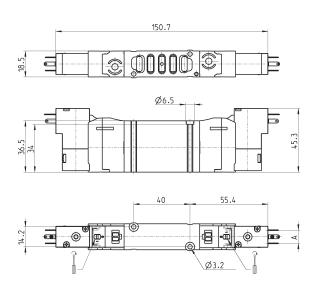
5/2-way



Connectors at the end of this

section





Mod.	А	Operating pressure (bar)	Flow (Nl/min)
EN550-11-P13	9,4	2 ÷ 10	1000
EN550-11-P54	9,4	2 ÷ 10	1000
EN550-11-P56	9,4	2 ÷ 10	1000
EN550-11-W53	8	2 ÷ 10	1000
EN550-11-W54	8	2÷10	1000

Electro-pneumatic valve, sol. P / W, outlets on sub-base - size 19

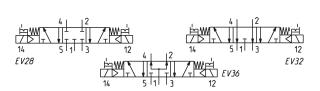
5/3-way

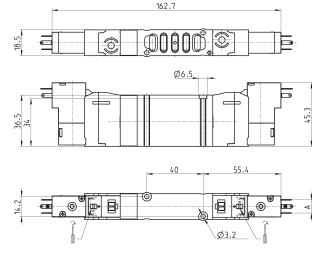
CC = Centres Closed

CO = Centres Open

CP = Centres in Pressure







Mod.	Α	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN650-11-P	9,4	3 ÷ 10	1000	EV28
EN750-11-P	9,4	3 ÷ 10	1000	EV32
EN850-11-P	9,4	3 ÷ 10	1000	EV36
EN650-11-W	8	3 ÷ 10	1000	EV28
EN750-11-W	8	3 ÷ 10	1000	EV32
EN850-11-W	8	3 ÷ 10	1000	EV36



Electro-pn. mono. valve, pilot sup. sol. P / W, outlets on base - s. 16

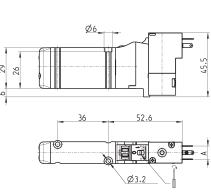
5/2-way



E CLOUDE ST

Connectors at the end of this section





101.7

Mod.	А	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN530-E16-P	9,4	2,5 ÷ 10	-0,9 ÷ 10	610
EN530-E16-W	8	2,5 ÷ 10	-0,9 ÷ 10	610

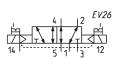
Electro-pn. bistab. valve, pilot sup. sol. P / W, outlets on base - s. 16

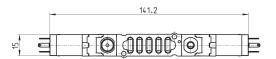
5/2-way

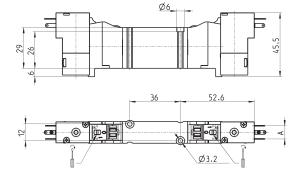


Connectors at the end of this

section







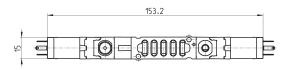
Mod.	А	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN530-E11-P	9,4	2 ÷ 10	-0,9 ÷ 10	610
EN530-E11-W	8	2 ÷ 10	-0,9 ÷ 10	610

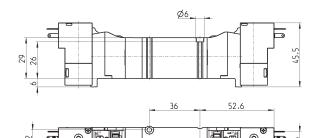
Electro-pneum. valve, pilot sup. sol. P / W, outlets on base - s. 16

5/3-way CC = Centres Closed

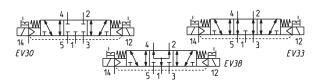
CO = Centres Open

CP = Centres in Pressure





Connectors at the end of this section



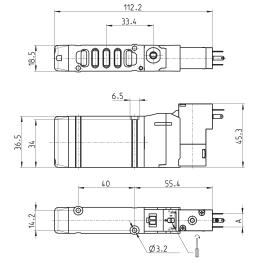
Mod.	А	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN630-E11-P	9,4	3 ÷ 10	-0,9 ÷ 10	610	EV30
EN730-E11-P	9,4	3 ÷ 10	-0,9 ÷ 10	610	EV33
EN830-E11-P	9,4	3 ÷ 10	-0,9 ÷ 10	610	EV38
EN630-E11-W	8	3 ÷ 10	-0,9 ÷ 10	610	EV30
EN730-E11-W	8	3 ÷ 10	-0,9 ÷ 10	610	EV33
EN830-E11-W	8	3 ÷ 10	-0,9 ÷ 10	610	EV38

Electro-pn. mono. valve, pilot sup. sol. P / W, outlets on base - s. 19

5/2-way







Mod.	А	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN550-E16-P	9,4	2,5 ÷ 10	-0,9 ÷ 10	1000
EN550-E16-W	8	2,5 ÷ 10	-0,9 ÷ 10	1000

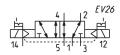


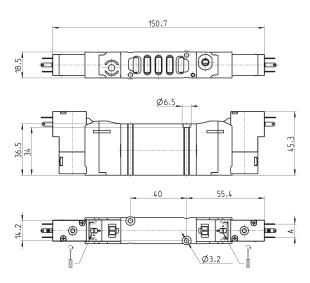
Electro-pn. bistab. valve, pilot sup. sol. P / W, outlets on base - s. 19

5/2-way



Connectors at the end of this section





Mod.	А	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN550-E11-P	9,4	2 ÷ 10	-0,9 ÷ 10	1000
EN550-E11-W	8	2 ÷ 10	-0,9 ÷ 10	1000

Electro-pneum. valve, pilot sup. sol. P / W, outlets on base - s. 19

5/3-way

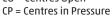
CC = Centres Closed

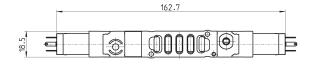
CO = Centres Open



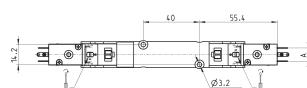
Connectors at the end of this

section





Ø6.5



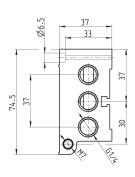
EV30 Language Levis Lev
--

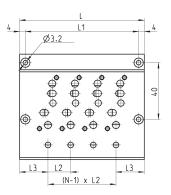
Mod.	А	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN650-E11-P	9,4	3 ÷ 10	-0,9 ÷ 10	1000	EV30
EN750-E11-P	9,4	3 ÷ 10	-0,9 ÷ 10	1000	EV33
EN850-E11-P	9,4	3 ÷ 10	-0,9 ÷ 10	1000	EV38
EN650-E11-W	8	3 ÷ 10	-0,9 ÷ 10	1000	EV30
EN750-E11-W	8	3 ÷ 10	-0,9 ÷ 10	1000	EV33
EN850-E11-W	8	3 ÷ 10	-0,9 ÷ 10	1000	EV38

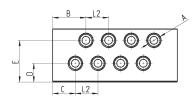


Manifold for valves size 16 and 19 (outlets on manifolds)







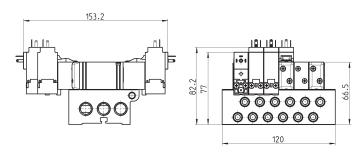


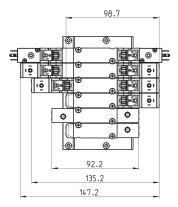
Mod.	Nr of valve positions	A	В	С	D	E	L	L1	L2	L3
EN530-2102	2	G1/8	23,5	16	12,8	29	56	48	16	20
EN530-2103	3	G1/8	23,5	16	12,8	29	72	64	16	20
EN530-2104	4	G1/8	23,5	16	12,8	29	88	80	16	20
EN530-2105	5	G1/8	23,5	16	12,8	29	104	96	16	20
EN530-2106	6	G1/8	23,5	16	12,8	29	120	112	16	20
EN530-2108	8	G1/8	23,5	16	12,8	29	152	144	16	20
EN530-2110	10	G1/8	23,5	16	12,8	29	184	176	16	20
EN530-2112	12	G1/8	23,5	16	12,8	29	216	208	16	20
EN550-2102	2	G1/4	23	15,5	10,5	28,2	59	51	19	20
EN550-2103	3	G1/4	23	15,5	10,5	28,2	78	70	19	20
EN550-2104	4	G1/4	23	15,5	10,5	28,2	97	89	19	20
EN550-2105	5	G1/4	23	15,5	10,5	28,2	116	108	19	20
EN550-2106	6	G1/4	23	15,5	10,5	28,2	135	127	19	20
EN550-2108	8	G1/4	23	15,5	10,5	28,2	173	165	19	20
EN550-2110	10	G1/4	23	15,5	10,5	28,2	211	203	19	20
EN550-2112	12	G1/4	23	15,5	10,5	28,2	249	241	19	20



Manifolds complete with base moutend valves - size 16

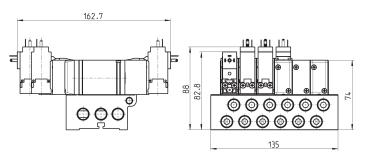


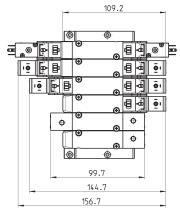




Manifolds complete with base moutend valves - size 19









Blanking plate for manifolds - valves with outlets on the body



The following is supplied: 1x blanking plate 2x screws

1x seal

A		
	В	_(_

Mod.	Size	А	В	С	ØD
TP-EN531	16	60	14,5	12	3,2
TP-EN551	19	62	17,3	12	3,2

Blanking plate for manifolds - base mounted valves

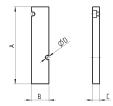


The following is supplied:

1x blanking plate

2x screws

1x seal



Mod.	Size	А	В	С	ØD
TP-EN530	16	64	14,7	6	3,2
TP-FN550	19	64	17	6	3.2

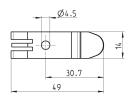
Mounting brackets for DIN rail



DIN EN 50022 (7,5mm x 35mm - width 1) Suitable for all manifolds.

Supplied with: 2x plates 2x screws M4x6 UNI 5931 2x nuts



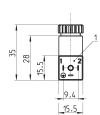


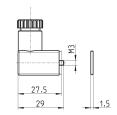
Mod. PCF-EN531

€ CAMOZZI

Connector Mod. 125-... DIN 43650 pitch 9.4 mm







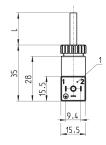
Mod.	description	colour	working voltage	cable holding	tightening torque
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm
125-800	connector, without electronics	black	-	PG7	0.3 Nm

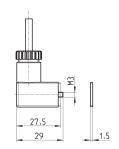
1 = 90° adjustable connector

Connector Mod. 125-... DIN 43650 pitch 9.4 mm 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.





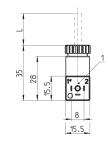
Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000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

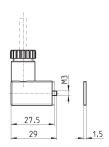
1 = 90° adjustable connector

Connector Mod. 126-... DIN 43650 pitch 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





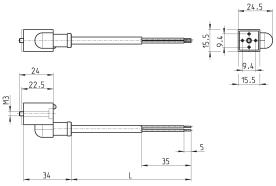
1 = 90° adjustable connector

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



In-line connectors with cable

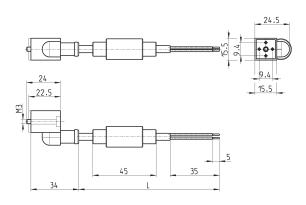




Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
125-503-2	in-line moulded cable, with diode + Led	black	24 V DC	2000 mm	-	0.3 Nm
125-503-5	in-line moulded cable, with diode + Led	black	24 V DC	5000 mm	-	0.3 Nm
125-553-2	in-line moulded cable, without electronics	black	-	2000 mm	-	0.3 Nm
125-553-5	in-line moulded cable, without electronics	black	-	5000 mm	-	0.3 Nm

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



Series 3 valves and solenoid valves

2x3/2, 3/2, 5/2 and 5/3-way CC CO CP

Ports: G1/8 and G1/4







Series 3 solenoid valves with G1/8 and G1/4 ports have been designed in the 3/2, 2 x 3/2, 5/2, 5/3 versions and with the following two devices of actuation:

- Electropneumatically actuated with mechanical spring return
- Electropneumatically actuated with external and internal air pressure supply

Series 3 valves are equipped with a manual override which allows a stable operation and they can use Series U or G solenoids (22x22).

Pneumatically actuated valves 3/2 NC become NO when the supply is on connection 3.

GENERAL DATA

Construction spool - type

Valve group2x3/2 - 3/2 - 5/3 - way CC CO CPMaterialsAL body, stainless steel spool, NBR seals

Ports G1/8 - G1/4
Installation in any position

Operating temperature $0 \div 60^{\circ}\text{C}$ (with dry air at -20°C)

Operating pressure see tables

Fluid filtered air, without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should

never be interrupted.

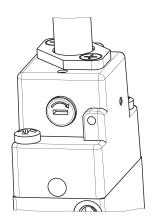


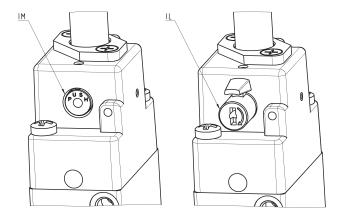
CODING EXAMPLE

3	3	8	D	-	015	-	02	IL	-	U7	7
---	---	---	---	---	-----	---	----	----	---	----	---

3	SERIES
3	NUMBER OF WAYS - POSITIONS: 3 = 3/2 NC 4 = 3/2 NO 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO 8 = 5/3 CP 9 = 1x3/2 NC + 1x3/2 NO
8	PORTS: 8 = G1/8 4 = G1/4
D	VERSION: = standard D = double valve 2x3/2 L = for manifold assembly (only for solenoid valves 3/2 with G1/8 ports)
015	ACTUATION: 011 = double solenoid 015 = single solenoid, spring return 016 = single solenoid, pneumatic spring return E11 = double solenoid external servo-command E15 = single solenoid, external servo-command 033 = pneumatic pneumatic 035 = pneumatic spring
02	SOLENOID INTERFACE: 02 = mech. sol. 22 x 22
IL	TYPE OF MANUAL OVERRIDE: = bistable, standard IL = bistable, lever type (available on demand) IM = monostable (available on demand)
U7	ENCAPSULATING MATERIAL / SOLENOID DIMENSIONS: A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 (24 V DC only) G9 = PA / 22 x 58 H8 = PA 6 V0 / 30 x 30 U7 = PET / 22 x 22
7	SOLENOID VOLTAGE (see the dedicated section 2.35)

TYPES OF MANUAL OVERRIDE





Example of solenoid valve with a bistable standard manual override.

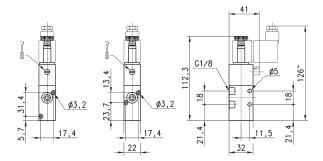
Example of solenoid monostable valve (IM) and bistable valve with a lever type manual override (IL).

CAMOZZI Automation

3/2-way solenoid valve, G1/8, monostable - Mod. 338..., Mod 348...



These solenoid valves, which have electropneumatic actuation and spring return, are available in the NC (closed) or NO (open) version.



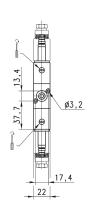


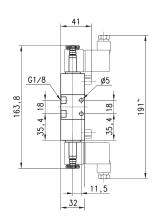
Mod.	Mounting	Function	Flow rate (Nl/min)	Operating pressure (bar)	Symbol
338-015-02	in-line	3/2 NC	700	2,5 ÷ 10	EV10
338L-015-02	on manifold	3/2 NC	700	2,5 ÷ 10	EV10
348-015-02	in-line	3/2 NO	700	2,5 ÷ 10	EV12
348L-015-02	on manifold	3/2 NO	700	2,5 ÷ 10	EV12

3/2-way solenoid valve, G1/8, bistable - Mod. 338...



These solenoid valves, which have electropneumatic actuation and return, assume the NC (closed) or NO (open) position depending on the last pulse received.





	2	ı	E V 14
	1 .	7	H
12	1	Π	3 10

Mod.	Mounting	Function	Flow rate (Nl/min)	Operating pressure (bar)
338-011-02	in-line	3/2	700	1,5 ÷ 10
338L-011-02	on manifold	3/2	700	1,5 ÷ 10

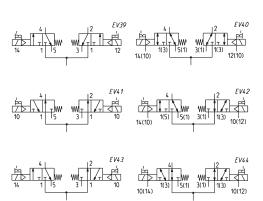


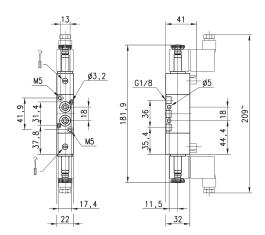
2 x 3/2-way solenoid valve, G1/8 - Mod. 338D..., 348D... e 398D...



These solenoid valves are available in versions with 2 x 3/2 valves in the same valve.





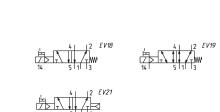


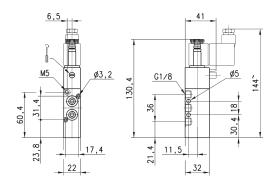
Mod.	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
338D-015-02	2 x 3/2 NC	700	2,5 ÷ 10	-	EV39
348D-015-02	2 x 3/2 NO	700	2,5 ÷ 10	-	EV41
338D-E15-02	2 x 3/2 NC	700	-0,9 ÷ 10	2,5 ÷ 10	EV40
348D-E15-02	2 x 3/2 NO	700	-0,9 ÷ 10	2,5 ÷ 10	EV44
398D-015-02	1 x 3/2 NC + 1 x 3/2 NO	700	2,5 ÷ 10	-	EV43
398D-E15-02	1 x 3/2 NC + 1 x 3/2 NO	700	-0,9 ÷ 10	2,5 ÷ 10	EV42

5/2-way solenoid valve, G1/8, monostable - Mod. 358...



These solenoid valves with electropneumatic actuation and mechanical or pneumatic spring return are suitable for controlling double-acting cylinders.





Mod.	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
358-015-02	5/2	700	2,5 ÷ 10	-	EV18
358-E15-02	5/2	700	-0,9 ÷ 10	2,5 ÷ 10	EV19
358-016-02	5/2	700	2,5 ÷ 10	-	EV21

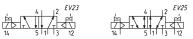
CAMOZZI Automation

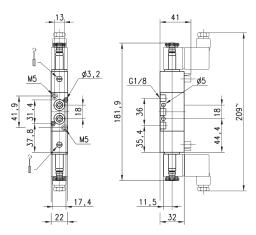
5/2-way solenoid valve, G1/8, bistable - Mod. 358...



These solenoid valves with electropneumatic actuation and return are suitable for controlling double-acting cylinders.





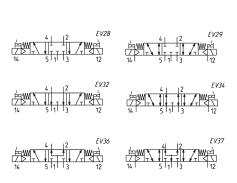


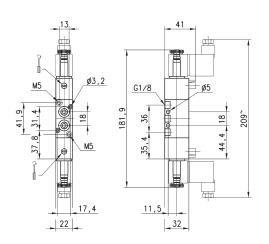
Mod.	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
358-011-02	5/2	700	1,5 ÷ 10	-	EV23
358-E11-02	5/2	700	-0,9 ÷ 10	1,5 ÷ 10	EV25

5/3-way solenoid valve, G1/8, - Mod. 368... Mod. 378... Mod. 388...



CC = Centres Closed CO = Centres Open CP = Pressure Centres





Mod.	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
368-011-02	5/3 CC	700	2 ÷ 10	-	EV28
368-E11-02	5/3 CC	700	-0,9 ÷ 10	2 ÷ 10	EV29
378-011-02	5/3 CO	700	2-10	-	EV32
378-E11-02	5/3 CO	700	-0,9 ÷ 10	2 ÷ 10	EV34
388-011-02	5/3 CP	700	2 ÷ 10	-	EV36
388-E11-02	5/3 CP	700	-0,9 ÷ 10	2 ÷ 10	EV37

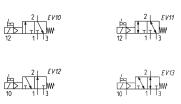


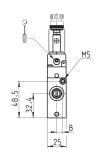
3/2-way solenoid valve, G1/4, monostable - Mod. 334... Mod 344...

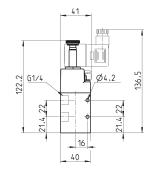


These solenoid valves, which have electropneumatic actuation and spring return, are available in the NC (closed) or NO (open) version.









Mod.	Mounting	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
334-015-02	in-line	3/2 NC	1300	2.5 ÷ 10	-	EV10
334-E15-02	in-line	3/2 NC	1300	-0.9 ÷ 10	2.5 ÷ 10	EV11
344-015-02	in-line	3/2 NO	1300	2.5 ÷ 10	-	EV12
344-E15-02	in-line	3/2 NO	1300	-0.9 ÷10	2.5 ÷ 10	EV13

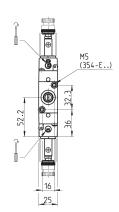
3/2-way solenoid valve, G1/4, bistable - Mod. 334...

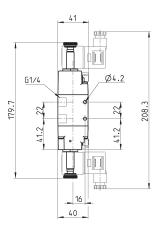


These solenoid valves, which have electropneumatic actuation and return assume the NC (closed) or NO (open) position depending on ther last pulse received.









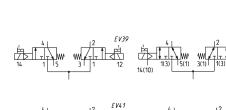
Mod.	Mounting	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
334-011-02	in-line	3/2	1300	1.5 ÷ 10	-	EV14
334-F11-02	in-line	3/2	1300	1 5 ÷ 10	2.5 ÷ 10	FV15

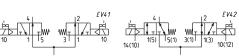


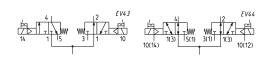
2 x 3/2-way solenoid valve, G1/4 Mod. 334D... 344D... and 394D...

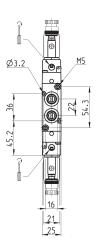


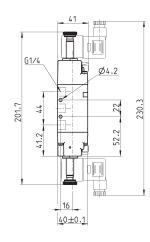
These solenoid valves are available in versions with 2 x 3/2 valves in the same valve.











Mod.	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
334D-015-02	2 x 3/2 NC	1200	2,5 ÷ 10	-	EV39
344D-015-02	2 x 3/2 NO	1050	2,5 ÷ 10	-	EV41
334D-E15-02	2 x 3/2 NC	1200	-0,9 ÷ 10	2,5 ÷ 10	EV40
344D-E15-02	2 x 3/2 NO	1050	-0,9 ÷ 10	2,5 ÷ 10	EV44
394D-015-02	1 x 3/2 NC + 1 x 3/2 NO	1050	2 ÷ 10	-	EV43
394D-E15-02	1 x 3/2 NC + 1 x 3/2 NO	1050	-0,9 ÷ 10	2,5 ÷ 10	EV42

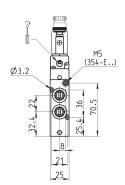
5/2-way solenoid valve, G1/4, monostable - Mod. 354...

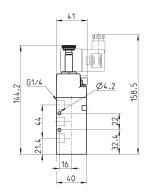


These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.









Mod.	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
354-015-02	5/2	1300	2,5 ÷ 10	-	EV18
354-E15-02	5/2	1300	-0,9 ÷ 10	2,5 ÷ 10	EV19

SERIES 3 VALVES AND SOLENOID VALVES

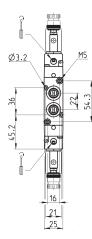
5/2-way solenoid valve, G1/4, bistable - Mod. 354...

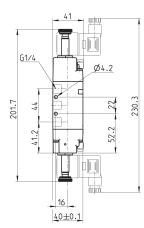


These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.







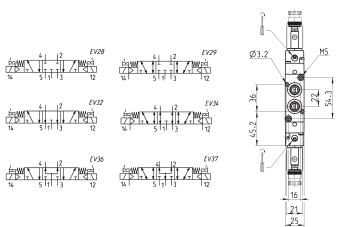


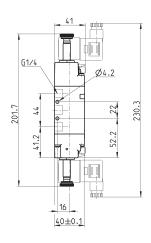
Mod.	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
354-011-02	5/2	1300	1,5 ÷ 10	-	EV23
354-E11-02	5/2	1300	-0,9 ÷ 10	2,5 ÷ 10	EV25

5/3-way solenoid valve, G1/4, - Mod. 364... Mod. 374... Mod. 384...



CC = Centres Closed CO = Centres Open CP = Pressure Centres



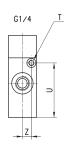


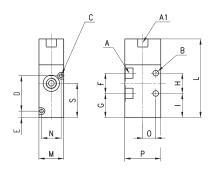
Mod.	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
364-011-02	5/3 CC	1200	2,5 ÷ 10	-	EV28
364-E11-02	5/3 CC	1200	-0,9 ÷ 10	2,5 ÷ 10	EV29
374-011-02	5/3 CO	1200	2,5 ÷ 10	-	EV32
374-E11-02	5/3 CO	1200	-0,9 ÷ 10	2,5 ÷ 10	EV34
384-011-02	5/3 CP	1200	2,5 ÷ 10	-	EV36
384-E11-02	5/3 CP	1200	-0,9 ÷ 10	2,5 ÷ 10	EV37

CAMOZZI Automation

3/2-way valve, G1/8 or G1/4, monostable





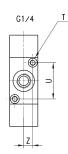


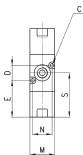


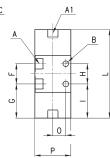
DIMENSION	1S																							
Mod.	Mounting	Function	Flow rate (Nl/min)	Min. pilot press. (bar)	Working press. (bar)	Α	A1	В	С	D	Е	F	G	Н	-1	L	М	N	0	Р	S	Т	U	Z
338-035	in-line	3/2 NC	700	2.5	-0.9 ÷ 10	G1/8	G1/8	5	3.2	-	5.7	18	21.4	18	21.4	69.8	22	-	11.5	32	30.4	-	-	-
338L-035	on manifold	3/2 NC	700	2.5	-0.9 ÷ 10	G1/8	G1/8	-	3.2	31.4	5.7	18	21.4	-	21.4	69.8	22	17.4	11.5	32	30.4	-	-	-
334-035	in-line	3/2 NC	1300	3	-0.9 ÷ 10	G1/4	-	4.1	-	-	-	22	21.4	22	21.4	73	25	-	16	40	32.4	M5	48.5	8

3/2-way valve, G1/8 or G1/4, bistable









	2	VP02
12(10)	1(3)	10(12)

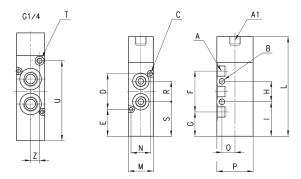
DIMENSION	NS																							
Mod.	Mounting	Function	Flow rate (Nl/min)	Min. pilot press. (bar) Working press. (bar)	Α	A1	В	С	D	Е	F	G	Н	1	L	M N	ı	0	Р	S	Т	U	Z
338-033	in-line	3/2	700	1.5	-0.9 ÷ 10	G1/8	G1/8	5	-	-	-	18	30.4	18	30.4	78.8	22 -		11.5	32	41.7	-	-	-
338L-033	on manifold	3/2	700	1.5	-0.9 ÷ 10	G1/8	G1/8	5	3.2	13.4	32.7	18	30.4	- :	30.4	78.8	22 17	.4	-	32	41.7	-	-	-
334-033	in-line	3/2	1300	2.5	-0.9 ÷ 10	G1/4	-	4.1	-	-	-	22	29.7	22	29.7	81.3	25 -		16	40	40.7	М5	32.3	8

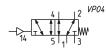
SERIES 3 VALVES AND SOLENOID VALVES

5/2-way valve, G1/8 or G1/4, monostable



In-line or manifold mounting



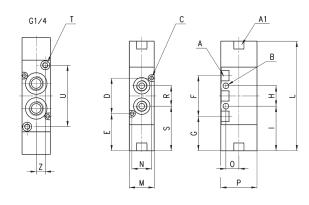


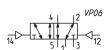
DIMENSIC	INS																						
Mod.	Function	Flow rate (Nl/min)	min pilot press. (bar)	Working press. (bar)	Α	A1	В	С	D	E	F	G	Н	I	L	М	N	0	Р	S	T	U	Z
358-035	5/2	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	23,8	36	21,4	18	30,4	87,8	22	17,4	11,5	32	30,4	-	-	-
354-035	5/2	1300	3	-0.9 ÷ 10	G1/4	-	4.1	3.2	36	25.4	44	21.4	22	30.4	95	25	21	16	40	32.4	M5	70.5	8

5/2-way valve, G1/8 or G1/4, bistable



In-line or manifold mounting





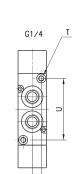
DIMENSIC	NS																						
Mod.	Function	Flow rate (Nl/min)	min. pilot pressure (bar)	Working pressure (bar)	Α	A1	В	С	D	Е	F	G	Н	-1	L	М	N	0	Р	S	Т	U	Z
358-033	5/2	700	1,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-
354-033	5/2	1300	2,5	-0,9 ÷ 10	G1/4		4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8

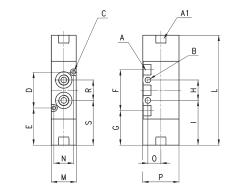
C₹ CAMOZZI

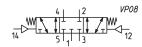
5/3-way valve, G1/8 or G1/4



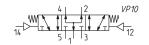
In-line or manifold mounting









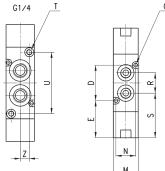


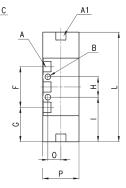
DIMENSIO	NS																							
Mod.	Function	Flow rate (Nl/min)	Min. pilot pr. (bar)	Working pr. (bar)	Α	A1	В	С	D	Е	F	G	Н	- 1	L	М	N	0	Р	S	Т	U	Z	Symb.
368-033	5/3 CC	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP08
364-033	5/3 CC	1200	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	М5	54,3	8	VP08
378-033	5/3 CO	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP09
374-033	5/3 CO	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8	VP09
388-033	5/3 CP	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-	VP10
384-033	5/3 CP	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8	VP10

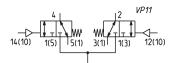
2 x 3/2-way valve, G1/8 or G1/4

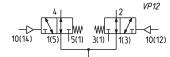


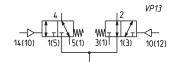
In-line or manifold mounting











DIMENSIO	NS																						
Mod.	Function	Flow rate (Nl/min)	min. pilot pr. (bar)	Working pr. (bar)	Α	A1	В	С	D	Е	F	G	Н	I	L	М	N	0	Р	S	T	U	Z Symb.
338D-035	2x3/2 NC	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	- VP11
334D-035	2x3/2 NC	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	М5	54,3	8 VP11
348D-035	2x3/2 NO	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	- VP12
344D-035	2x3/2 NO	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8 VP12
398D-035	2x3/2 NC/NO	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	- VP13
394D-035	2x3/2 NC/NO	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8 VP13

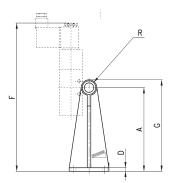
SERIES 3 VALVES AND SOLENOID VALVES

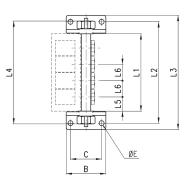
Manifold bars with separate exhausts (low version)



The following is supplied: 2x feet

- 1x manifold
- 1x inlet fitting
- 1x plug
- 4x washers





DIMENSION	5															
Mod.	Nr of valves	Α	В	С	D	ØE	F	G	R	L1	L2	L3	L4	L5	L6	Suitable for Series
CNV-318-2	2	73	56	44	5	7	178	83	G1/4	63	97	115	99	20	23	3 - G1/8
CNV-318-3	3	73	56	44	5	7	178	83	G1/4	86	120	138	119	20	23	3 - G1/8
CNV-318-4	4	73	56	44	5	7	178	83	G1/4	109	143	161	142	20	23	3 - G1/8
CNV-318-5	5	73	56	44	5	7	178	83	G1/4	132	166	184	165	20	23	3 - G1/8
CNV-318-6	6	73	56	44	5	7	178	83	G1/4	155	189	207	188	20	23	3 - G1/8

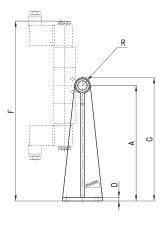
The fixing screws of the valves Mod. 1631 01-1/8 must be ordered separately.

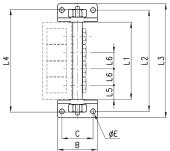
Manifold bars with separate exhausts (high version)



The following is supplied:

- 2x feet
- 1x manifold
- 1x inlet fitting
- 1x plug
- 4x washers





DIMENSION	S															
Mod.	Nr of valves	Α	В	С	D	ØE	F	G	R	L1	L2	L3	L4	L5	L6	Suitable for Series
CNV-328-2	2	118	56	44	5	7	223	128	G1/4	63	97	115	99	20	23	3 - G1/8
CNV-328-3	3	118	56	44	5	7	223	128	G1/4	86	120	138	119	20	23	3 - G1/8
CNV-328-4	4	118	56	44	5	7	223	128	G1/4	109	143	161	142	20	23	3 - G1/8
CNV-328-5	5	118	56	44	5	7	223	128	G1/4	132	166	184	165	20	23	3 - G1/8
CNV-328-6	6	118	56	44	5	7	223	128	G1/4	155	189	207	188	20	23	3 - G1/8

The fixing screws of the valves Mod. 1631 01-1/8 must be ordered separately.



Initial / final Module with three positions - Mod. CNVL-...



The following is supplied:
3x interface O-Rings manifold/manifold;

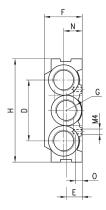
2x fixing nuts;

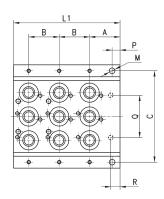
2x junction plugs;

9x interface seals valve/manifold (CNVL-3H3)

or 3x interface seals valve/manif. (CNVL-4H3);

6x fixing screws for valves





DIMENSIONS															
Mod.	Α	В	С	D	E	F	Н	L1	М	N	0	Р	Q	R	G
CNVL-3H3	23	23	69,5	46	12	29	78	80,5	4,3	14	5	6	32	7	3/8
CNVL-4H3	26	26	88	60	14	29	98	91	4,3	-	5	5	38	7	1/2

CNVL-3H3: for Series 3, G1/8 CNVL-4H3: for Series 3, G1/4

Initial / final Module with 2 positions - Mod. CNVL-...



Initial module with 2 positions

The following is supplied:

3x interface O-Rings manifold/manifold;

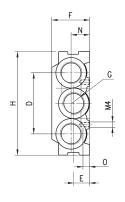
2x fixing nuts;

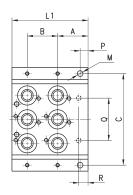
2x junction plugs;

6x interface seals valve/manifold (CNVL-3H2)

or 2x interface seals valve/manif. (CNVL-4H2);

4x fixing screws for valves





DIMENSION	IS														
Mod.	Α	В	С	D	Е	F	Н	L1	М	N	0	Р	Q	R	G
CNVL-3H2	23	23	69,5	46	12	29	78	57,5	4,3	14	5	6	32	7	3/8
CNVL-4H2	26	26	88	60	14	29	98	65	4,3	-	5	5	38	7	1/2

CNVL-3H2: for Series 3, G1/8 CNVL-4H2: for Series 3, G1/4

Intermediate module with 3 positions - Mod. CNVL-...



The following is supplied:

3x interface O-Rings manifold/manifold;

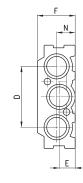
2x fixing nuts;

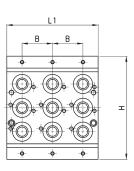
2x junction plugs;

9x interface seals valve/manifold (CNVL-3I3)

or 3x interface seals valve/manif. (CNVL-4I3);

6x fixing screws for valves





DIMENSIONS							
Mod.	В	D	E	F	Н	L1	N
CNVL-313	23	46	12	29	78	69	14
CNVL-413	26	60	14	29	98	78	-

CNVL-3I3: for Series 3, G1/8 CNVL-4I3: for Series 3, G1/4

SERIES 3 VALVES AND SOLENOID VALVES

Intermediate module with 2 positions - Mod. CNVL-...



DIMENSIONS Mod.

CNVL-312

CNVL-412

The following is supplied:

- 3x interface O-Rings manifold/manifold;
- 2x fixing nuts;
- 2x junction plugs;
- 6x interface seals valve/manifold (CNVL-3I2)

Н

78

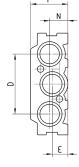
98

L1

46

52

- or 2x interface seals valve/manif. (CNVL-4I2);
- 4x fixing screws for valves



CNVL-3I2: for Series 3, G1/8
CNVL-4I2: for Series 3, G1/4

-	L1	_	
	В		
-		-	1
)	0	
() , ((5	- Ξ
8		50	
•		> -	,

Intermediate module with 1 position - Mod. CNVL-...

12

14



В

23

26

D

46

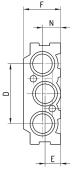
60

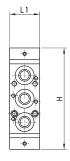
The following is supplied:

3x interface O-Rings manifold/manifold;

29

- 2x fixing nuts;
- 2x junction plugs;
- 3x interface seals valve/manifold (CNVL-3I1)
- or 1x interface seal valve/manif. (CNVL-4I1);
- 2x fixing screws for valves





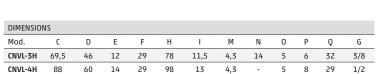
DIMENSIONS						
Mod.	D	E	F	Н	L1	N
CNVL-311	46	12	29	78	23	14
CNVL-4I1	60	14	29	98	26	-

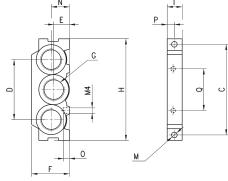
CNVL-3I1: for Series 3, G1/8 CNVL-4I1: for Series 3, G1/4

Terminal module Mod. CNVL-*H



The following is supplied: 2x fixing nuts





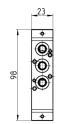
CNVL-3H: for Series 3, G1/8 CNVL-4H: for Series 3, G1/4

Interface module manifold between Series 3 G1/8 and G1/4



The following is supplied:

- 3x interface seal
- 2x screws
- 2x pins
- 4x plugs
- 6x O-Rings





Mod.
CNVL-4H-3H

It is possible to seat 1 valve, series 3 with G1/8 port.

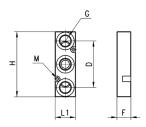


€ CAMOZZI

Intermediate plate for additional inlet and exhaust pressure



The following is supplied: 3x O-Rings 2x fixing screws



DIMENSION	S						
Mod.	G	Н	М	F	L1	D	F
CNVL-3P	G1/4	70	3.2	29	22	50	15
CNVL-4P	G1/4	73	3.2	29	25	50	20

CNVL-3P: for Series 3, G1/8 CNVL-4P: for Series 3, G1/4

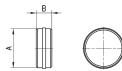
Separation diaphragm



For separation of channel: 1 - 3 - 5.

The following is supplied:

1x diaphragm



DIMENSIONS			
Mod.	Α	В	
CNVL-3H-TP	15.6	6	for Series 3, G1/8
CNVL-4H-TP	23.8	8	for Series 3, G1/4

Blanking plug Mod. TCNVL for manifolds



The following is supplied: 1x blanking plug 1x O-Ring



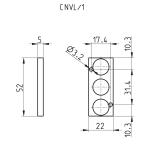
Mod.	
TCNVL/3	for Series 3, G1/8
TCNVL/5	for Series 3, G1/4

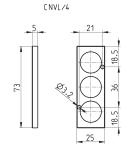
Blanking plate Mod. CNVL for manifolds



It is used to blank vacant positions of a manifold.

The following is supplied: 2x fixing screws 3x O-Rings





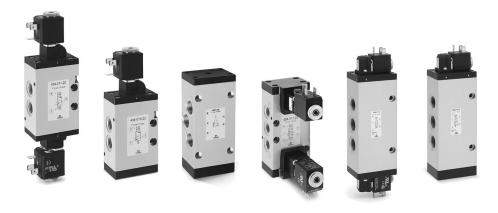
Mod.		
CNVL/1	for Series 3, G1/8	
CNVL/4	for Series 3, G1/4	

SERIES 4 VALVES AND SOLENOID VALVES

Series 4 valves and solenoid valves

New models

3/2, 5/2 and 5/3-way CC, CO Ports: G1/8, G1/4, G3/8, G1/2



Series 4 solenoid valves have been designed in the 3/2, 5/2, 5/3 versions and with the following two devices of actuation:

- electropneumatically actuated with mechanical spring return
- electropneumatically actuated and return with external and internal air pressure supply

Series 4 valves are equipped with a manual override which allows a stable operation and they are particularly suitable for mounting in arduous conditions.

All these valves can be operated by solenoids Series U, G A8 and H8. Moreover, valves with ports G1/2 only can be supplied with solenoids Series A6 (32x32).

Pneumatically actuated valves 3/2 NC become NO when the supply is on connection 3.

- » The different ports allow flows from 650 to 4000 Nl/min
- » New models available: with G3/8 ports and 1800 Nl/min flow

GENERAL DATA

Construction balanced spool type Valve functions 3/2 - 5/2 - 5/3-way CC, CO Materials AL body and subbases stainless steel spool technopolymer end cover NBR PU seals Ports G1/8 - G1/4 - G3/8 - G1/2 in any position

Operating temperature $0 \div 60^{\circ}\text{C}$ (with dry air at -20°C)

Operating pressure

Medium filtered air, without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil.

Once applied the lubrication should never be interrupted.

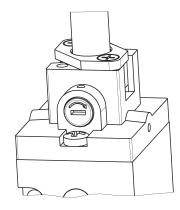


CODING EXAMPLE

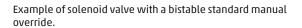
4	5 4 - 015 - 22 IL - U7 7
4	SERIES
5	NUMBER OF WAYS - POSITIONS: 3 = 3/2 NC 4 = 3/2 NO 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO
4	PORTS: 2C = G1/2 2N = G1/2 (high flow) 3 = G3/8 4 = G1/4 8 = G1/8
015	ACTUATION: 011 = double solenoid (horizontal solenoids) V11 = double solenoid (vertical solenoids) V11 = double solenoid (vertical solenoids) for G1/4 port only E11 = double solenoid external servo-command E15 = single solenoid external servo-command 015 = single solenoid, spring return (horizontal solenoids) V15 = single solenoid, spring return (vertical solenoid) for G1/4 port only 016 = single solenoid, pneumatic spring return (horizontal solenoid) V16 = single solenoid, pneumatic spring return (horizontal solenoid) V16 = single solenoid, pneumatic spring return (vertical solenoid) for G1/4 port only S3 = pneumatic pring S3 = pneumatic differential S5 = pneumatic differential
22	SOLENOID INTERFACE:: 22 = mech. sol. 22 x 22 50 = mech. sol. 32 x 32 (G1/2 only)
IL	TYPE OF MANUAL OVERRIDE: = bistable, standard IL = bistable, lever type (available on demand) M = monostable (available on demand)
U7	ENCAPSULATING MATERIAL / SOLENOID DIMENSIONS: A6 = PPS / 32 x 32 (G1/2 only) A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 (24 V DC only) G9 = PA / 22 x 58 H8 = PA 6 V 0 / 30 x 30 U7 = PET / 22 x 22

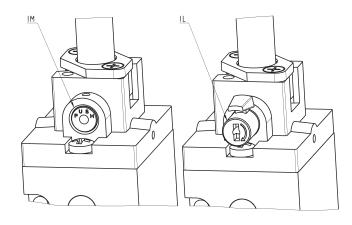
TYPES OF MANUAL OVERRIDE

7



SOLENOID VOLTAGE (see the dedicated section 2.35)





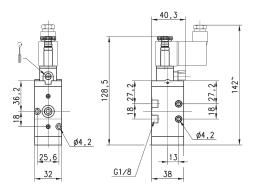
Example of solenoid monostable valve (IM) and bistable valve with a lever type manual override (IL).



3/2-way solenoid valve G1/8, monostable - Mod. 438... and 448...



These solenoid valves, which have electropneumatic actuation and spring return, are available in the NC (closed) or NO (open) version.



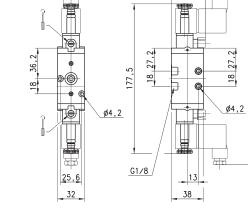


Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol
438-015-22	3/2 NC	650	2.5 ÷ 10	EV10
438-016-22	3/2 NC	650	2.5 ÷ 10	EV16
448-015-22	3/2 NO	650	2.5 ÷ 10	EV12
448-016-22	3/2 NO	650	2.5 ÷ 10	EV17

3/2-way solenoid valve G1/8, bistable - Mod. 438-011...



These solenoid valves, which have electropneumatic actuation and return, assume the NC (closed) or NO (open) operating status depending on the last pulse received.



40,3

204~

	2	EV14
ليظ	†	
	T T \	\Box
12	1	3 10

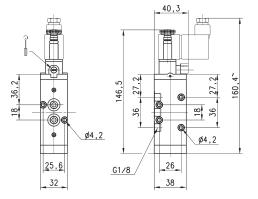
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	
438-011-22	3/2	650	2 ÷ 10	

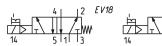
CAMOZZI Automation

5/2-way solenoid valves, G1/8, monostable - Mod 458...



These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.



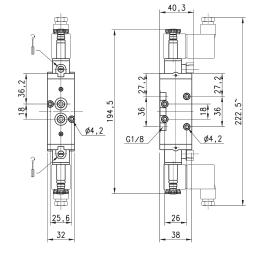


Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol
458-015-22	5/2	650	2.5 ÷ 10	EV18
458-016-22	5/2	650	2.5 ÷ 10	EV21

5/2-way solenoid valves, G1/8, bistable - Mod 458-011...



These solenoid valves, with electropneumatic actuation and return, are suitable for operating double-acting cylinders.



	, ,	12	EV23
₩.T	╗	1	4
/ □ □ □ □	_+11	/	$\triangleleft \lor$
14	5	1 3	12

Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)
458-011-22	5/2	650	2 ÷ 10

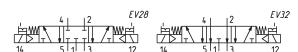
SERIES 4 VALVES AND SOLENOID VALVES

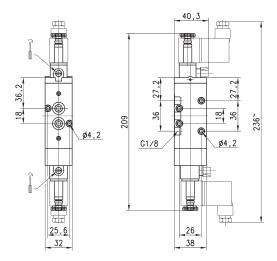
5/3-way solenoid valve, G1/8 - Mod. 468-011... and 478-011...



CC = Centres Closed CO = Centres Open





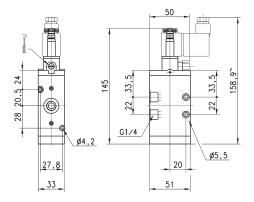


Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol
468-011-22	5/3 CC	600	2.5 ÷ 10	EV28
478-011-22	5/3 CO	600	2.5 ÷ 10	EV32

3/2-way solenoid valve, G1/4, monostable Mod. 434 and Mod. 444



These solenoid valves, which have electropneumatic actuation and spring return, are available in the NC (closed) or NO (open) version.



	2	EV10		2	EV16		2	EV12		2	EV17
	T T	w		7 7	b		Ţ.	_lw		7	b
12	1	3	12	1	3	10	1	Γş	10	1	3

Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol
434-015-22	3/2 NC	1250	2.5 ÷ 10	EV10
434-016-22	3/2 NC	1250	2.5 ÷ 10	EV16
444-015-22	3/2 NO	1250	2.5 ÷ 10	EV12
444-016-22	3/2 NO	1250	2.5 ÷ 10	EV17

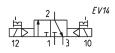
€ CAMOZZI

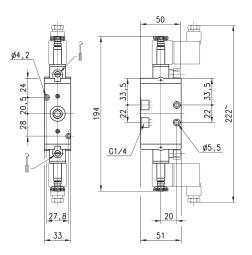
SERIES 4 VALVES AND SOLENOID VALVES

3/2-way solenoid valve, G1/4, bistable - Mod. 434-011...



These solenoid valves, which have electropneumatic actuation and return, assume the NC (closed) or NO (open) position depending on the last pulse received.





Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)
434-011-22	3/2	1250	2 ÷ 10

5/2-way solenoid valve, G1/4, monostable - Mod. 454...



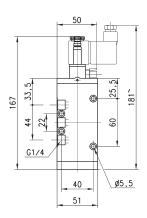
These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.



)

27,8

_ 33







Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol
454-015-22	5/2	1250	2.5 ÷ 10	EV18
454-016-22	5/2	1250	2.5 ÷ 10	EV21

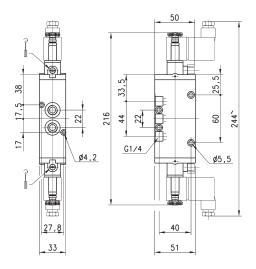
SERIES 4 VALVES AND SOLENOID VALVES

5/2-way solenoid valve, G1/4, bistable - Mod. 454-011...



These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.





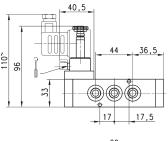
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)
454-011-22	5/2	1250	2 ÷ 10

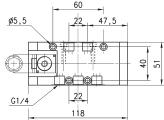
5/2-way solenoid valve, G1/4, monostable - Mod. 454-V...



These solenoid valves, which have electropneumatic actuation and spring or pneumatic spring return are suitable for operating double-acting cylinders.







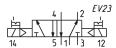
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol
454-V15-22	5/2	1250	2.5 ÷ 10	EV18
454-V16-22	5/2	1250	2.5 ÷ 10	EV21

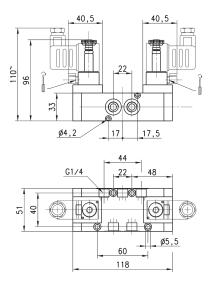


5/2-way solenoid valve, G1/4, bistable - Mod. 454-V11...



These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.





Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)
454-V11-22	5/2	1250	2 ÷ 10

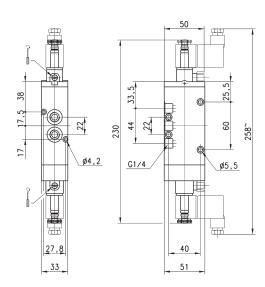
5/3-way solenoid valve, G1/4 - Mod. 464-011... e 474-011...



CC = Centres Closed

CO = Centres Open





Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol
464-011-22	5/3 CC	1250	2.5 ÷ 10	EV28
474-011-22	5/3 CO	1250	2.5 ÷ 10	EV32

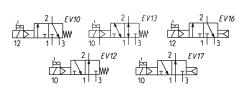
SERIES 4 VALVES AND SOLENOID VALVES

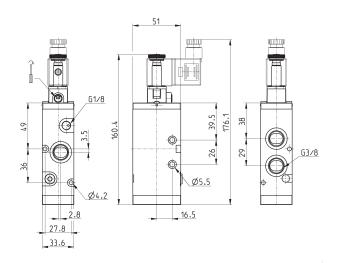
3/2-way solenoid valve, G3/8, monostable Mod. 433... and Mod. 443...

New



These solenoid valves, which have electropneumatic actuation and spring return, are available in the NC (closed) or NO (open) version.
The E15 version can work both NC and NO.





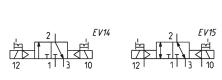
Mod.	Function	Flow Qn (Nl/min)	Working pressure (bar)	Min. pilot pressure (bar)	Symbol
433-015-22	3/2 NC	1800	2.5 ÷ 10	-	EV10
433-E15-22	3/2	1800	-0.9 ÷ 10	2.5	EV13
433-016-22	3/2 NC	1800	2.5 ÷ 10	-	EV16
443-015-22	3/2 NO	1800	2.5 ÷ 10	-	EV12
443-016-22	3/2 NO	1800	2.5 ÷ 10	-	EV17

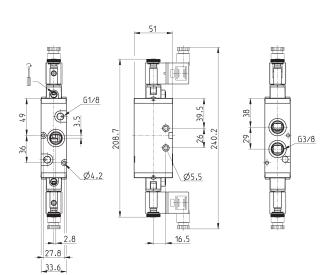
3/2-way solenoid valve, G3/8, bistable - Mod. 433-011...





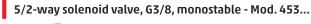
These solenoid valves, which have electropneumatic actuation and return, assume the NC (closed) or NO (open) position depending on the last pulse received.
The E15 version can work both NC and NO.





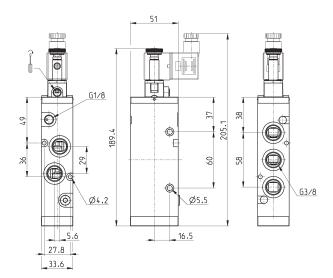
Mod.	Function	Flow Qn (Nl/min)	Working pressure (bar)	Min. pilot pressure (bar)	Symbol
433-011-22	3/2	1800	2 ÷ 10	-	EV14
433-E11-22	3/2	1800	-0.9 ÷ 10	2	EV15

New





These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.



EV18				
J.		4		<u>L</u> 2
///-	_\	III	. /.	
14		5	1	ľ3'''



	EV21				
			4		2
44 5 4 13			\prod	1	
	14	IT V	5	1	7

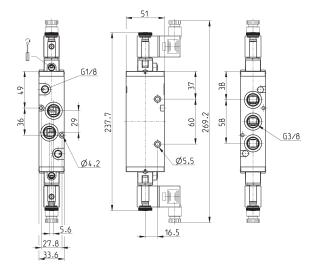
Mod.	Function	Flow Qn (Nl/min)	Working pressure (bar)	Min. pilot pressure (bar)	Symbol
453-015-22	5/2	1800	2.5 ÷ 10	-	EV18
453-E15-22	5/2	1800	-0.9 ÷ 10	2.5	EV19
453-016-22	5/2	1800	2.5 ÷ 10	-	EV21

5/2-way solenoid valve, G3/8, bistable - Mod. 453-011...

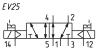
New



These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.







Mod.	Function	Flow Qn (Nl/min)	Working pressure (bar)	Min. pilot pressure (bar)	Symbol
453-011-22	5/2	1800	2 ÷ 10	-	EV23
453-E11-22	5/2	1800	-0.9 ÷ 10	2	EV25

SERIES 4 VALVES AND SOLENOID VALVES

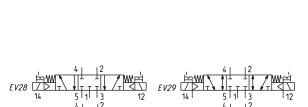
C CAMOZZI

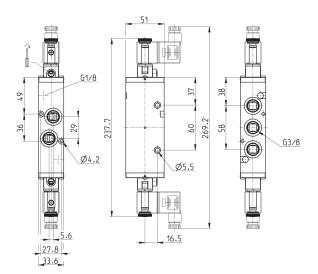
5/3-way solenoid valve, G3/8 - Mod. 463-011... and 473-011...

New



CC = Centres Closed CO = Centres Open



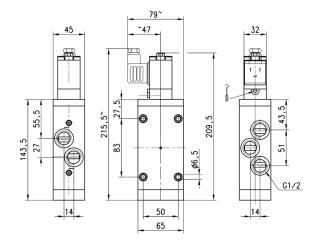


Mod.	Function	Flow Qn (Nl/min)	Working pressure (bar)	Min. pilot pressure (bar)	Symbol
463-011-22	5/3 CC	1600	2.5 ÷ 10	-	EV28
463-E11-22	5/3 CC	1600	-0.9 ÷ 10	2.5	EV29
473-011-22	5/3 CO	1600	2.5 ÷ 10	-	EV32
473-E11-22	5/3 CO	1600	-0.9 ÷ 10	2.5	EV34

5/2-way solenoid valve, G1/2, monostable - Mod. 452C...



These solenoid valves, which have electropneumatic actuation and spring or pneumatic spring return are suitable for operating doubleacting cylinders.



	4 2 EV18	4 12 EV21
	TI /TW	
14	5 11 13	14 5 1 3

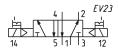
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol	
452C-015-50-A6*	5/2	2500	2.5 ÷ 10	EV18	* choose the desired voltage
452C-016-50-A6*	5/2	2500	2.5 ÷ 10	EV21	* choose the desired voltage

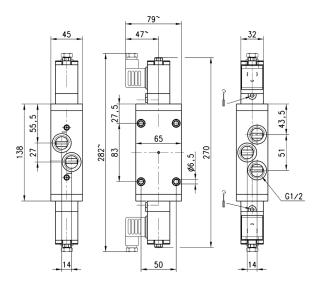
CAMOZZI Automation

5/2-way solenoid valve, G1/2, bistable - Mod. 452C-011...



These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.





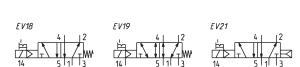
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	
452C-011-50-A6*	5/2	2500	2 ÷ 10	* choose the desired voltage

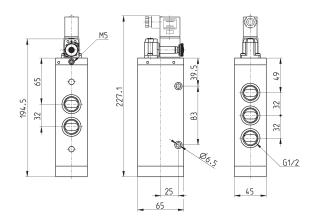
5/2-way solenoid valve, G1/2, monostable - Mod. 452N-...





These solenoid valves, which have electropneumatic actuation and spring or pneumatic spring return are suitable for operating doubleacting cylinders.





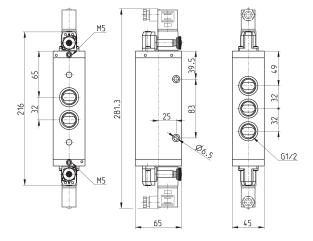
Mod.	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
452N-015-22	5/2	4000	-	2.5 ÷ 10	EV18
452N-016-22	5/2	4000	-	2.5 ÷ 10	EV21
452N-E15-22	5/2	4000	2.5	-0.9 ÷ 10	EV19

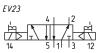
SERIES 4 VALVES AND SOLENOID VALVES

5/2-way solenoid valve, G1/2, bistable - Mod. 452N-...



These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.





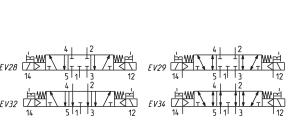


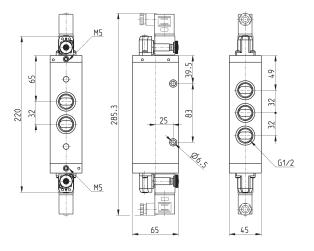
Mod.	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
452N-011-22	5/2	4000	-	2 ÷ 10	EV23
452N-E11-22	5/2	4000	2	-0.9 ÷ 10	EV25

5/3-way solenoid valve, G1/2, bistable - Mod. 462N-..., 472N-...



These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.



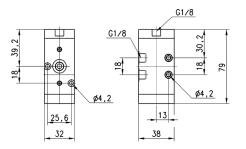


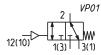
Mod.	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
462N-011-22	5/3 CC	3300	-	2.5 ÷ 10	EV28
462N-E11-22	5/3 CC	3300	2.5	-0.9 ÷ 10	EV29
472N-011-22	5/3 CO	3300	-	2.5 ÷ 10	EV32
472N-E11-22	5/3 CO	3300	2.5	-0.9 ÷ 10	EV34

C₹ CAMOZZI

3/2-way valve, G1/8 port, monostable Mod. 438-35



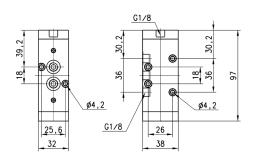




Mod.	Mounting	Function	Flow rate Qn (Nl/min)	Min. pilot pressure (bar)	Working pressure (bar)
438-35	in-line/on manifold	3/2 NC	700	2.5	-0.9 ÷ 10

5/2-way valve, G1/8 port, monostable Mod. 458-35







Mod.	Mounting	Function	Flow rate Qn (Nl/min)	Min. pilot pressure (bar)	Working pressure (bar)
458-35	in-line/manifold	5/2	700	2.5	-0.9 ÷ 10

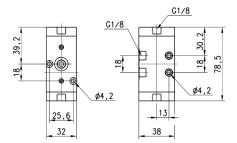
SERIES 4 VALVES AND SOLENOID VALVES

١.,

3/2-way valve, G1/8 port, bistable Mod. 438



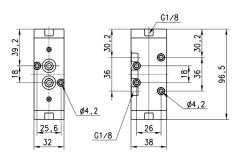
These valves can work NC or NO according to the last pilot signal.

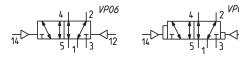


Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
438-33	in-line/on manifold	3/2	700	2	-0.9 ÷ 10	VP02
438-34	in-line/on manifold	3/2	700	2	-0.9 ÷ 10	VP03

5/2-way valve, G1/8 port, bistable Mod. 458







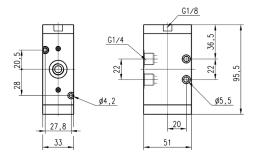
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
458-33	in-line/on manifold	5/2	700	2	-0.9 ÷ 10	VP06
458-34	in-line/on manifold	5/2	700	2	-0.9 ÷ 10	VP05

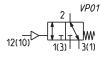
CAMOZZI Automation

3/2-way valve, G1/4 port, monostable Mod. 434-35



This valve can work NC or NO depending on where the power supply is connected.

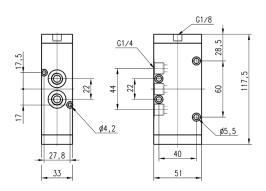




Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)
434-35	in-line/on manifold	3/2 NC	1250	2.5	-0.9 ÷ 10

5/2-way valve, G1/4 port, monostable Mod. 454-35







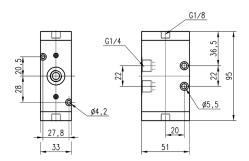
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	Min. pilot pressure (bar)	Working pressure (bar)
454-35	in-line/on manifold	5/2	1250	2.5	-0.9 ÷ 10



3/2-way valve, G1/4 port, bistable Mod. 434



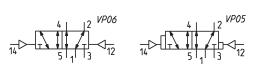
These valves can work NC or NO according to the last pilot signal.

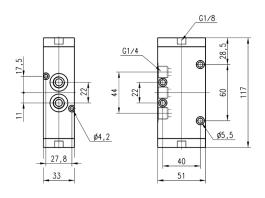


Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
434-33	in-line/on manifold	3/2 NC	1250	2	-0.9 ÷ 10	VP02
434-34	in-line/on manifold	3/2 NC	1250	2	-0.9 ÷ 10	VP03

5/2-way valve, G1/4 port, bistable Mod. 454







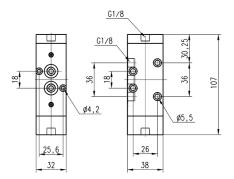
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
454-33	in-line/on manifold	5/2	1250	2	-0.9 ÷ 10	VP06
454-34	in-line/on manifold	5/2	1250	2	-0.9 ÷ 10	VP05

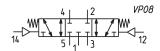
CAMOZZI Automation

5/3-way C.C. valve, G1/8, monostable, with central stable position



CC = Centres Closed





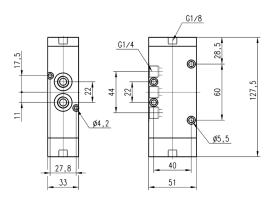
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)
468-33	in-line/on manifold	5/3 CC	700	2.5	-0.9 ÷ 10

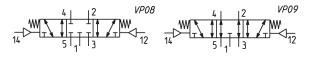
5/3-way CC CO valve, G1/4, monostable, central stable position



CC = Centres Closed

CO = Centres Open





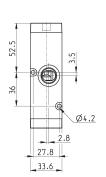
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
464-33	in-line/on manifold	5/3 CC	1250	2.5	-0.9 ÷ 10	VP08
474-33	in-line/on manifold	5/3 CO	1200	2.5	-0.9 ÷ 10	VP09

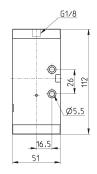
3/2-way valve, G3/8 port, monostable Mod. 433-35

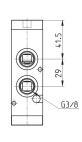


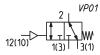


This valve can work NC or NO depending on where the power supply is connected.







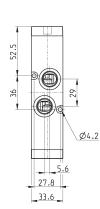


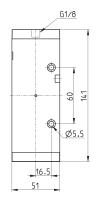
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)
433-35	in-line/on manifold	3/2 NC	1800	2.5	-0.9 ÷ 10

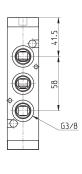
5/2-way valve, G3/8 port, monostable Mod. 453-35

New









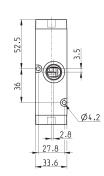
	4	ı	12	VP04
	1		Z w	٧
14	5	1	Т3	

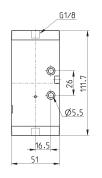
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	Min. pilot pressure (bar)	Working pressure (bar)
453-35	in-line/on manifold	5/2	1800	2.5	-0.9 ÷ 10

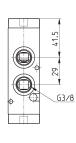
3/2-way valve, G3/8 port, bistable Mod. 433

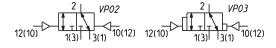


These valves can work NC or NO according to the last pilot signal.







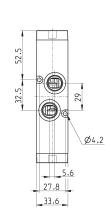


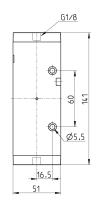
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
433-33	in-line/on manifold	3/2 NC	1800	2	-0.9 ÷ 10	VP02
433-34	in-line/on manifold	3/2 NC	1800	2	-0.9 ÷ 10	VP03

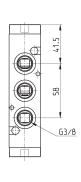
5/2-way valve, G3/8 port, bistable Mod. 453

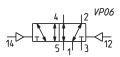
New









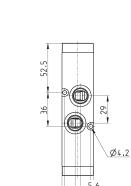


Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
453-33	in-line/on manifold	5/2	1800	2	-0.9 ÷ 10	VP06
453-34	in-line/on manifold	5/2	1800	2	-0.9 ÷ 10	VP05

5/3-way CC CO valve, G3/8, monostable, central stable position

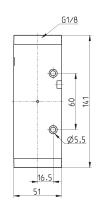


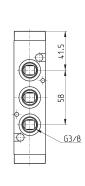
CC = Centres Closed CO = Centres Open

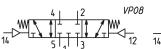


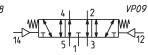
27.8

_33.6





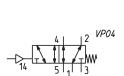


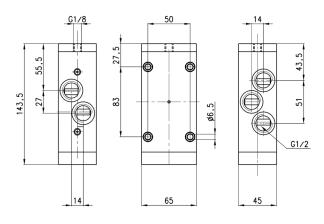


Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
463-33	in-line/on manifold	5/3 CC	1600	2.5	-0.9 ÷ 10	VP08
473-33	in-line/on manifold	5/3 CO	1600	2.5	-0.9 ÷ 10	VP09

5/2-way valve, G1/2 port, monostable Mod. 452C-35







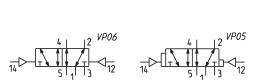
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	Min. pilot pressure (bar)	Working pressure (bar)
452C-35	in-line	5/2	2500	2.5	-0.9 ÷ 10

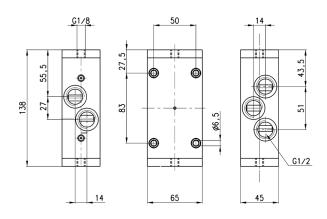
C₹ CAMOZZI

5/2-way valve, G1/2 port, bistable Mod. 452C





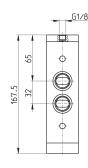


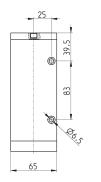


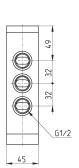
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
452C-33	in-line	5/2	2500	2	-0.9 ÷ 10	VP06
452C-34	in-line	5/2	2500	2	-0.9 ÷ 10	VP05

5/2-way valve, G1/2 port, monostable Mod. 452N-35







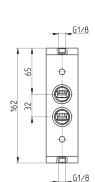


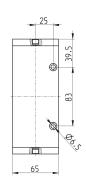
	4	2	VP04
\rightarrow	1	1 T ₃ W	٨
14	5	1 3	

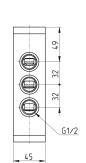
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	Min. pilot pressure (bar)	Working pressure (bar)
452N-35	in-line	5/2	4000	2.5	-0.9 ÷ 10

5/2-way valve, G1/2 port, bistable Mod. 452N-33











Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
452N-33	in-line	5/2	4000	2	-0.9 ÷ 10	VP06

Manifold base with common exhausts



For valves Series 4, G1/8 (3/2, 5/2 or 5/3-way)

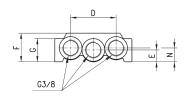
The following is supplied with:

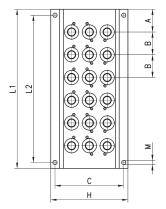
1x manifold

1x pair of fixing screws for valve position

1x interface seal for valve positions

2x guides for valve position





DIMENSIO	NS											
Mod.	Α	В	С	D	E	F	G	Н	L1	L2	М	N
CNVL-42	28	33	69.5	46	12	29	23.5	78	89	77	4.3	14
CNVL-43	28	33	69.5	46	12	29	23.5	78	122	110	4.3	14
CNVL-44	28	33	69.5	46	12	29	23.5	78	155	143	4.3	14
CNVL-45	28	33	69.5	46	12	29	23.5	78	188	176	4.3	14
CNVL-46	28	33	69.5	46	12	29	23.5	78	221	209	4.3	14

€ CAMOZZI

Manifold base with common exhausts



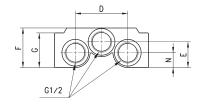
For valves Series 4, G1/4 (3/2, 5/2 or 5/3-way) The following is supplied :

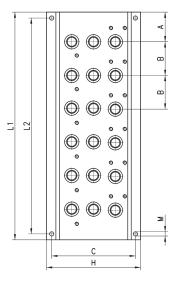
1x manifold

1x pair of fixing screws for valve position

1x interface seal for valve positions

2x guides for valve position





DIMENSIO	NS											
Mod.	Α	В	С	D	Е	F	G	Н	L1	L2	М	N
CNVL-52	30	34	84.5	53	26	40	35	95	94	82	4.3	15
CNVL-53	30	34	84.5	53	26	40	35	95	128	116	4.3	15
CNVL-54	30	34	84.5	53	26	40	35	95	162	150	4.3	15
CNVL-55	30	34	84.5	53	26	40	35	95	196	184	4.3	15
CNVL-56	30	34	84.5	53	26	40	35	95	230	218	4.3	15

Manifold base with common exhausts



For valves Series 4, G3/8 (3/2, 5/2 or 5/3-way)

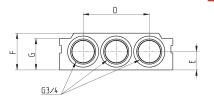
The following is supplied with:

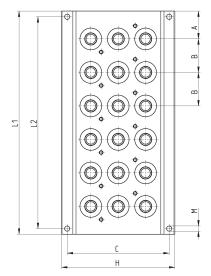
1x manifold

1x pair of fixing screws for valve position

1x interface seal for valve positions

2x guides for valve position





Mod.	Α	В	С	D	Е	F	G	Н	L1	L2	М
CNVL-62	29.5	35	108	70	19.5	39	33.5	120	94.5	82.5	5.5
CNVL-63	29.5	35	108	70	19.5	39	33.5	120	130	118	5.5
CNVL-64	29.5	35	108	70	19.5	39	33.5	120	166	154	5.5
CNVL-65	29.5	35	108	70	19.5	39	33.5	120	201	189	5.5
CNVL-66	29.5	35	108	70	19.5	39	33.5	120	237	225	5.5

New



Blanking plug Mod. TCNVL for manifolds



The following is supplied: 1x blanking plug 1x O-Ring

TCNVL/3: for Series 4, G1/8 TCNVL/5: for Series 4, G1/4 TCNVL/6: for Series 4, G3/8



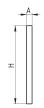
Mod. TCNVL/3 TCNVL/5 TCNVL/6

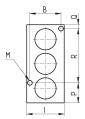
Blanking plate Mod. CNVL for manifolds



The following is supplied: 2x fixing screws 3x O-Rings

CNVL/2: for Series 4, G1/8 CNVL/3: for Series 4, G1/4 CNVL/4: for Series 4, G3/8





DIMENSIO	NS							
Mod.	Α	В	Н	I	М	Р	Q	R
CNVL/2	5	25.6	52	32	4.2	17	17	18
CNVL/3	5	27.8	70	33.5	4.2	18	3.5	48.5
CNVL/4	5	27.8	85	33.5	4.2	24.5	24.5	36

It is used to blank vacant positions



Series 9 valves and solenoid valves

5/2 and 5/3-way CC CO Sizes 1 - 2 - 3 According to the standard ISO 5599/1



Series 9 electropneumatically or pneumatically operated valves have been designed with sizes 1, 2 and 3, as recommended by the ISO Standards. The ease of pneumatic and electrical wiring makes these valves extremely flexible.

GENERAL DATA

Operating pressure max. press. 10 bar (for minimum pressures see descriptions)

Nominal pressure 6 bar

Nominal flow ISO 1 = 900 Nl/min ISO 2 = 1610 Nl/min

ISO 3 = 4350 Nl/min

Operating temperature 0 ÷ 60°C (with dry air at -20°C)
Fluid filtered air, without lubrication.

If lubricated air is used, it is recommended to use ISOVG32 oil and to never interrupt the lubrication.

Electropneumatic interface according CNOMO Standards

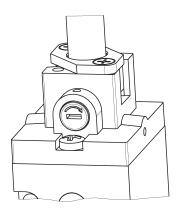


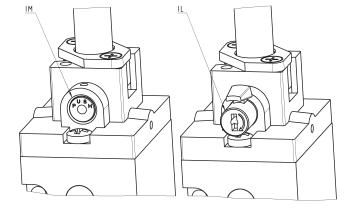
CODING EXAMPLE

	9	5	1	-	000	-	P16	-	23	-	U7	7
--	---	---	---	---	-----	---	-----	---	----	---	----	---

9	SERIES
5	NUMBER OF WAYS - POSITIONS: 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO
1	SIZE: 1 = size 1 2 = size 2 3 = size 3
000	BODY DESIGN: 000 = valve body
P16	ACTUATION: 33 = pneumatic, pneumatic return 34 = pneumatic, differential pneumatic return 35 = pneumatic, mechanical spring return P11 = double solenoid (horizontal solenoids) P15 = single solenoid, spring return (horizontal solenoids) P16 = solenoid, pneumatic spring return (horizontal solenoids)
23	SOLENOID INTERFACE AND MANUAL COMMAND: 23 = A531-BC2 standard bistable manual override 23IL = A531-BC2 lever type bistable manual override 23IM = A531-BC2 monostable manual override
U7	SOLENOID MATERIAL / SOLENOID DIMENSIONS: A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 (24 V DC only) G9 = PA / 22 x 58 H8 = PA 6 V0 / 30 x 30 U7 = PET / 22 x 22
7	SOLENOID VOLTAGE (see the dedicated section 2.35)

TYPES OF MANUAL OVERRIDE





Example of solenoid valve with a bistable standard manual override.

Example of solenoid monostable valve (IM) and bistable valve with a lever type manual override (IL).

CAMOZZI Automation

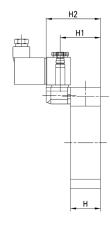
5/2-way solenoid valves, monostable - ISO 1, ISO 2, ISO 3

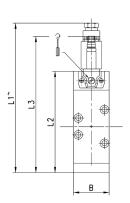


Available with electropneumatic actuation and spring return, they are suitable for mounting on a sub-base.

The following is supplied: 1x interface seal 4x fixing screws







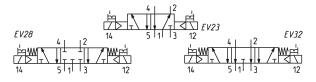
DIMENSIONS										
Mod.	Size ISO	В	L1	L2	L3	Н	H1	H2	Min. operating pressure	Symbol
951-000-P15-23	1	38	153	108	146	32	43	58	2.5	EV18
952-000-P15-23	2	51	173	128	166	33	44	59	2.5	EV18
953-000-P15-23	3	65	218	173	211	45	56	71	2.5	EV18
951-000-P16-23	1	38	153	108	146	32	43	58	2.5	EV21
952-000-P16-23	2	51	173	128	166	33	44	59	2.5	EV21
953-000-P16-23	3	65	218	173	211	45	56	71	2.5	EV21

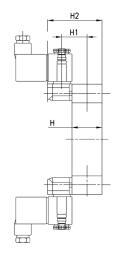
5/2-way, 5/3-way solenoid valves, bistable - ISO 1, ISO 2, ISO 3

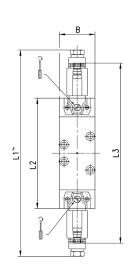


Available with electropneumatic actuation and spring return, they are suitable for mounting on a sub-base.

The following is supplied: 1x interface seal 4x fixing screws







DIMENSIONS										
Mod.	Size ISO	В	L1	L2	L3	Н	H1	H2	Min. operating pressure	Symbol
951-000-P11-23	1	38	208	118	194	32	43	58	2	EV23
952-000-P11-23	2	51	228	138	214	33	44	59	2	EV23
953-000-P11-23	3	65	273	183	259	45	56	71	2	EV23
961-000-P11-23	1	38	208	118	194	32	43	58	2.5	EV28
962-000-P11-23	2	51	228	138	214	33	44	59	2.5	EV28
963-000-P11-23	3	65	273	183	259	45	56	71	2.5	EV28
971-000-P11-23	1	38	208	118	194	32	43	58	2.5	EV32
972-000-P11-23	2	51	228	138	214	33	44	59	2.5	EV32
973-000-P11-23	3	65	273	183	259	45	56	71	2.5	EV32

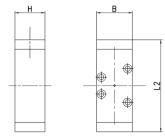
5/2 -way valves, monostable, bistable - ISO 1, ISO 2, ISO 3

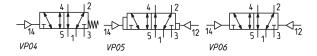


The Series 9 valves with ISO interface, size 1, 2 and 3, are available with the following types of actuation:

- pneumatic, with spring return
- pneumatic actuation and differential return
- pneumatic actuation and return

The following is supplied: 1x interface seal 4x fixing screws





DIMENSIONS							
Mod.	Size ISO	В	L2	Н	Min. pilot pressure (bar)	Working pressure (bar)	Symbol
951-000-35	1	38	98	32	2.5	-0.9 ÷ 10	VP04
952-000-35	2	51	118	33	2.5	-0.9 ÷ 10	VP04
953-000-35	3	65	163	45	2.5	-0.9 ÷ 10	VP04
951-000-34	1	38	98	32	2	-0.9 ÷ 10	VP05
952-000-34	2	51	118	33	2	-0.9 ÷ 10	VP05
953-000-34	3	65	163	45	2	-0.9 ÷ 10	VP05
951-000-33	1	38	98	32	2	-0.9 ÷ 10	VP06
952-000-33	2	51	118	33	2	-0.9 ÷ 10	VP06
953-000-33	3	65	163	45	2	-0.9 ÷ 10	VP06

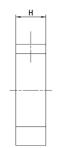
5/3-way valve, monostable, with stable central position - ISO 1, 2, 3

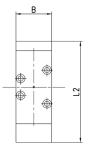


The Series 9 valves with ISO interface, size l, 2 and 3, are available with pneumatic actuation and central resetting by a spring. There are two types of function:

- with closed centres
- with open centres

The following is supplied: 1x interface seal 4x fixing screws





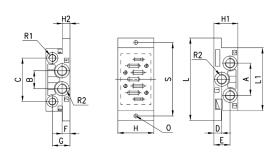
	4	12	VP08		4	12	VP09
14 W	5 1	13	12 W	14 W	5 1	3	√ W ₁₂

DIMENSIONS							
Mod.	Size ISO	В	L2	Н	Min. pilot pressure (bar)	Working pressure (bar)	Symbol
961-000-33	1	38	108	32	2.5	-0.9 ÷ 10	VP08
962-000-33	2	51	128	33	2.5	-0.9 ÷ 10	VP08
963-000-33	3	65	173	45	2.5	-0.9 ÷ 10	VP08
971-000-33	1	38	108	32	2.5	-0.9 ÷ 10	VP09
972-000-33	2	51	128	33	2.5	-0.9 ÷ 10	VP09
973-000-33	3	65	173	45	2.5	-0.9 ÷ 10	VP09



Single sub-base side outlets (VDMA 24345)

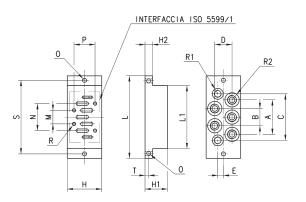




DIMENSIO	NS																
Mod.	Size	Α	В	С	D	Е	F	G	Н	Н1	H2	L	L1	0	R1	R2	S
901-F1A	1	43	24	58	10.5	21.5	10.5	23.5	48	32	10	110	84	5.5	G1/8	G1/4	98
902-F2A	2	56	30	74	14	26	14	30	57	40	13	124	95	6.5	G1/8	G3/8	112
903-F3A	3	68	32	90	17	17	17	22	71	32	18	149	119	6.5	G1/8	G1/2	136

Single sub-base with rear outlets (VDMA 24345)



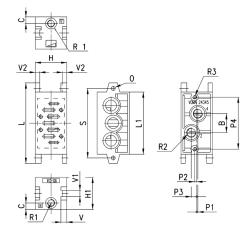


DIMENSIO	NS																			
Mod.	Size	Α	В	С	D	Е	Н	Н1	H2	L	L1	М	N	0	Р	R	R1	R2	S	Т
901-G1A	1	46	23	61	23	7.5	46	30	10	110	84	18	36	5.5	28	М5	G1/8	G1/4	98	5
902-G2A	2	56	28	72	28	8	56	35	13	124	95	24	48	6.5	38	М6	G1/8	G3/8	112	6.5
903-G3A	3	68	34	90	34	10	71	32	18	149	119	32	64	6.5	48	M8	G1/8	G1/2	136	9

Manifold sub-base with com. exhausts and inlet (VDMA 24345)



The following is supplied: 2x fixing screws
3x O-ring



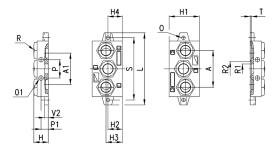
D.114511510																			
DIMENSIO	NS																		
Mod.	Size	В	C	Н	Н1	L	L1	0	Р1	P2	Р3	P4	R1	R2	R3	S	V	V1	V2
901-C1A	1	26	8.5	43	44	110	85	5.5	1.5	3	7.5	71	G1/8	G1/4	M5	95	8	8	6
902-C2A	2	30	9	56	45	135	100	6.5	5	3	6	86	G1/8	G3/8	М6	115	11	11	8
903-C3A	3	38	10	71	54	190	140	9	6	3	8	130	G1/8	G1/2	M8	168	13	13	8

Note: complete with fixing screws and O-ring.

End block for manifold sub-base (VDMA 24345)



The following is supplied: 2x end blocks (1 pair) 2x fixing screws 3x OR

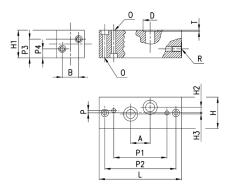


DIMENSI	ONS																		
Mod.	Size	Α	A1	Н	Н1	H2	Н3	Н4	L	0	01	Р	P1	R	ØR1	ØR2	S	T	V2
901-H1	1	56	48	22	46	22	25	22	110	5,5	7	28	11	G3/8	15	22,1	95	2	6
902-H2	2	68	63	26	47	23	25	24	135	6,5	9	35	13	G1/2	18,5	28,7	115	2	8
903-H3	3	104	94	30	56	22	25	25	190	9	12	52	15	G1	28	38	168	2,7	8

Interface with front outlets (VDMA 24345)



The following is supplied: 2x fixing screws 2x OR

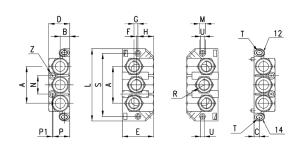


DIMENSI	ONS																
Mod.	Size	Α	В	D	Н	Н1	H2	Н3	L	0	Р	P1	P2	Р3	Р4	R	Т
901-N1	1	26	22	19	42	37	7.5	1.5	110	5.5	3	71	95	25	12	G1/4	1.4
902-N2	2	30	29	23	55	40	6	5	135	6.5	3	86	115	26	14	G3/8	1.4
903-N3	3	38	36	27	70	45	8	6	190	9	3	130	168	29	17	G1/2	1.4

End blocks for manifold bases with front outlets



The following is supplied: 2x end blocks (1 pair) 2x fixing screws 3x OR



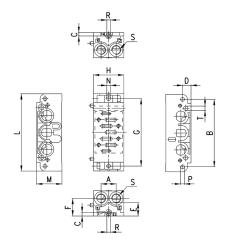
DIMENSIO	NS																		
Mod.	Size	Α	В	С	D	Е	F	G	Н	L	М	N	Р	P1	R	S	T	U	Z
901-HN1	1	56	14.5	8	32	48	2.5	6	24	110	9	28	25.5	1	3/8"	96	G1/8	5,5	3,5

CAMOZZI Automation

Manifold bases with comm. inlet and exhaust ports and front outlet

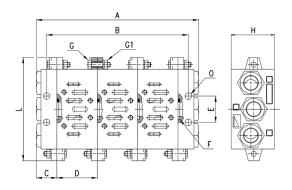


The following is supplied: 2x fixing screws
3x OR



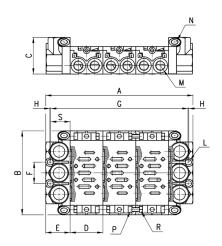
DIMENSIO	NS															
Mod.	Size	Α	В	С	D	Е	F	G	Н	L	М	N	Р	R	S	T
901-N1A	1	21.5	96	5	12	19	25	96	43	110	36	5.5	5.5	M5	G1/4	6.2

Assembly of manifold sub-base (VDMA 24345)



DIM	ENSIONS										
Size	Α	В	С	D	Е	FOR	UNI 5739 G	UNI 57588 G1	Н	L	0
1	n°D+2C	n°D+C	22	43	28	3068	M5X20	M5	46	110	7
2	n°D+2C	n°D+C	26	56	35	3093	M6X25	M6	47	135	9
3	n°D+2C	n°D+C	30	71	52	4125	M8X25	M8	56	190	12

Assembly for front outlet manifold sub-bases



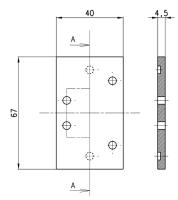
DIM	IENSIONS													
Size	А	В	С	D	Е	F	G	Н	L	М	N	UNI 5931 P.	UNI 5588 R	S
1	N° D+2E	110	48	43	32	28	n°D+25	1	3.5	G1/4	G1/8	M5X14	M5	25.5



Cover plate for unused positions

The following is supplied: 1x seal

4x screws

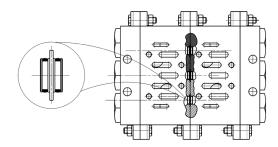


Mod. **901-TP**

Mounting example



Separation tap lines 1 - 3 - 5 to be used with manifold type 901-C1A and 902-C2A

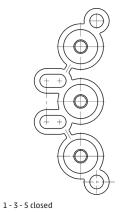


Mod. 901-C1A/TP 902-C2A/TP

Separation joint



Separation joint to be used with manifold type 901N



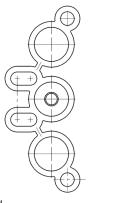


Mod. **901-N1A/T**

Separation joint



Separation joint to be used with manifold type 901N. P plugged.





Mod. 901-N1A/TP

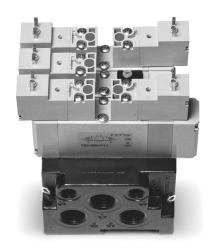
1 closed



Series 7 valves and solenoid valves

VDMA 24563 (ISO 15407-1) 5/2 - 5/3-way CC CO CP





Size 26 mm (VDMA 24563-01) Size 18 mm (VDMA 24563-02)

GENERAL DATA

Construction balanced spool type Valve functions 5/2 - 5/3-way CC CO CP Materials AL body, spool base, polyamide endcovers, NBR seals Mounting by means of screws on the base Ports on sub-base **Operating temperature** 0° C min. +50° C max Fluid filtered air (5 micron or less), without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted. Size 26 mm 18 mm Installation in any position Operating pressure P. max 7 bar Nominal pressure Qn Size 26 mm = 900 Nl/min Qn Size 18 mm = 450 Nl/min Nominal flow Voltage see coding ± 10% Voltage tolerance Power consumption 2W Class of insulation class F Protection IP54 (IP65 with connector DIN 40050)



CODING EXAMPLE

	7	5	1	-	N	1	Α	-	P16	-	15	-	W	2	3
--	---	---	---	---	---	---	---	---	-----	---	----	---	---	---	---

7	SERIES:
5	NUMBER OF WAYS - POSITIONS: 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO 8 = 5/3 CP
1	SIZES: 1 = size 26 mm 2 = size 18 mm
N	SUBBASE: N = sub-base with front outlets
1	PORTS: 1 = G1/4 (Size 26 mm) 2 = G1/8 (Size 18 mm)
Α	NUMBER OF SUBBASES: A = 1 * B = 2 * C = 3 * D = 4 * E = 5 * F = 6 * G = 7 * H = 8 * K = 9 * L = 10 * M = 11 * N = 12 * P = 13 * R = 14 * S = 15 *
P16	ACTUATION: 33 = pneumatic, bistable 36 = pneumatic, monostable P11 = electro-pneumatic, bistable P16 = electro-pneumatic, monostable
15	SOLENOID INTERFACE: 15 = 15x15
W	SOLENOID TYPES: W = Series W (24V - 48V DC only) P = Series P **
2	CONNECTION: 1 = wire 300 mm (Series W, 24V DC only) ** 2 = 2 pins (Series W, 24V - 48V DC) 5 = 2 pins+earth (Series P) **
3	SOLENOID VOLTAGE: 3 = 24V DC 4 = 48V DC ** 6 = 110V DC (with Series P solenoids only) ** B = 24V SO/60 Hz (with Series P solenoids only) ** C = 48V SO/60 Hz (with Series P solenoids only) ** D = 110V SO/60 Hz (with Series P solenoids only) **
	NOTES: * complete with the two end blocks ** on request

€ CAMOZZI

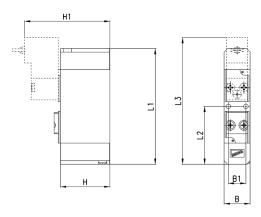
5/2-way solenoid valve, ISO 26 mm - 18 mm monostable



The Series 7 solenoid valves with interface ISO 26 mm and 18 mm which have electropneumatic actuation and spring return are suitable for mounting on a subbase. For electrical actuation, 2 types of solenoid, Series W and Series P (available with a wide range of voltages, on request).

Connector Mod. 126-800.

The following is supplied: 1x interface seal 2x fixing screws



	4	2	E V20
	\prod	7.	a
14	5	1 3	

DIMENSIONS													
Mod.	Size ISO	В	B1	L1	L2	L3	Н	H1	Min. operating pressure				
751-000-P16-15-W20	26 mm	26,5	19	99,7	49,85	98,8	39	64,3	3 bar				
752-000-P16-15-W20	18 mm	18,5	12,5	82,2	41,1	90	35,2	60,5	3 bar				

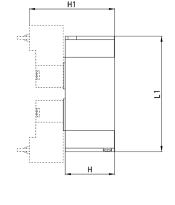
5/2-way solenoid valves, ISO 26 mm - 18 mm, bistable

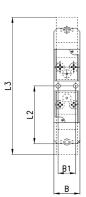


The Series 7 solenoid valves with ISO 26 mm and 18 mm interface which have electropneumatic actuation and return are suitable for mounting on a sub-base.
For electrical actuation, 2 types of solenoid Series W and Series P (available with a wide range of voltages, on request).

Connector Mod. 126-800.

The following is supplied: 1x interface seal 2x fixing screws





	4 1 12	EV24
		括
14	5 1 3	12

DIMENSIONS									
Mod.	Size ISO	В	B1	L1	L2	L3	Н	H1	Min. operating pressure
751-000-P11-15-W20	26 mm	26,5	19	99,7	49,85	98,8	39	64,3	2 bar
752-000-P11-15-W20	18 mm	18,5	12,5	82,2	41,1	97,8	35,2	60,5	2 bar

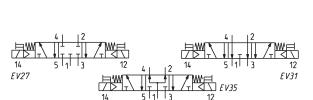
5/3-way solenoid valves, ISO 26 mm - 18 mm

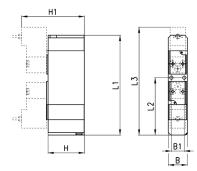


The Series 7 solenoid valves with ISO 26 mm - 18 mm interface which have electropneumatic actuation and spring return are suitable for mounting on a sub-base. For electrical actuation, two types of solenoid Series W and Series P (are available with a large range of voltages, on request).

Connector Mod. 126-800.

The following is supplied: 1x interface seal 2x fixing screws





DIMENSIONS										
Mod.	Size ISO	В	B1	L1	L2	L3	Н	H1	Min. operating pressure	Symbol
761-000-P11-15-W20	26 mm	26,5	19	111,7	61,85	110,8	39	64,3	3 bar	EV27
762-000-P11-15-W20	18 mm	18,5	12,5	96,7	55,6	104,5	35,2	60,5	3 bar	EV27
771-000-P11-15-W20	26 mm	26,5	19	111,7	61,85	110,8	39	64,3	3 bar	EV31
772-000-P11-15-W20	18 mm	18,5	12,5	96,7	55,6	104,5	35,2	60,5	3 bar	EV31
781-000-P11-15-W20	26 mm	26,5	19	111,7	61,85	110,8	39	64,3	3 bar	EV35
782-000-P11-15-W20	18 mm	18,5	12,5	96,7	55,6	104,5	35,2	60,5	3 bar	EV35

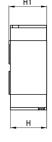
5/2-way solenoid valves ISO 26 mm - 18 mm, monostable

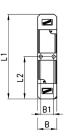


The Series 7 solenoid valves with ISO 26 mm and 18 mm interface which have pneumatic actuation and pneumatic spring return are suitable for mounting on a subbase.

For the correct use of the valve, the pilot pressure must be the same or higher than the operating pressure.

The following is supplied: 1x interface seal 2x fixing screws





	4	۱2	VP07
<u></u>	\prod	7,1=	ব
14	5 1	1 13	_

DIMENSIONS								
Mod.	Size ISO	В	B1	L1	L2	Н	H1	Min. operating pressure
751-000-36	26 mm	26,5	19	99,7	49,85	39	40,5	3 bar
752-000-36	18 mm	18,5	12,5	82,2	41,1	35,2	36,7	3 bar

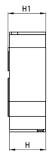
CAMOZZI Automation

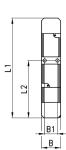
5/2-way solenoid valves ISO 26 mm - 18 mm, bistable



The Series 7 solenoid valves with ISO 26 mm and 18 mm interface which have pneumatic actuation and return are suitable for mounting on a sub-base.

The following is supplied: 1x interface seal 2x fixing screws







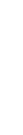
DIMENSIONS								
Mod.	Size ISO	В	B1	L1	L2	Н	H1	Min. operating pressure
751-000-33	26 mm	26,5	19	19 99,7 49,85		39	40,5	2 bar
752-000-33	18 mm	18,5	12,5	82,2	41,1	35,2	36,7	2 bar

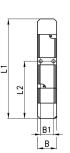
5/3-way solenoid valves, ISO 26 mm - 18 mm



The Series 7 solenoid valves with ISO 26 mm and 18 mm interface which have pneumatic actuation and mechanical spring return are suitable for mounting on a subbase.

The following is supplied: 1x interface seal 2x fixing screws





	4 2	4 2	
\W__\		- M- 11 - 11 /	7 W
14	5 1 3 12 4 1 12	14 5 1 1 3	- 112
VP08	- W \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7.W	VP09
	14 5 1 1 3	12 VP10	

DIMENSIONS									
Mod.	Size ISO	В	B1	L1	L2	Н	H1	Min. operating pressure	Symbol
761-000-33	26 mm	26,5	19	117,7	61,85	39	40,5	3 bar	VP08
762-000-33	18 mm	18,5	12,5	96,7	55,6	35,2	36,7	3 bar	VP08
771-000-33	26 mm	26,5	19	117,7	61,85	39	40,5	3 bar	VP09
772-000-33	18 mm	18,5	12,5	96,7	55,6	35,2	36,7	3 bar	VP09
781-000-33	26 mm	26,5	19	117,7	61,85	39	40,5	3 bar	VP10
782-000-33	18 mm	18,5	12,5	96,7	55,6	35,2	36,7	3 bar	VP10

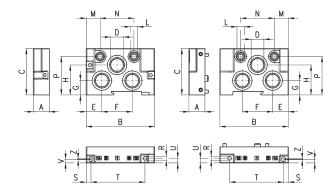


End blocks for subbase



End blocks for subbase with conveyed inlets and exhausts and front outlets.

The following is supplied: 1x seal 2x fixing screws



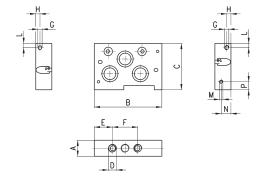
DIMENSIONS	5																		
Mod.	Size ISO	Α	В	С	D	Е	F	G	Н	L	М	N	Р	R	S	T	U	V	Z
701C-HN1	26 mm	27	107	65	G1/2	23	60	24,5	43	G1/8	21,5	58	55,5	4,5	7,5	61,5	6	6,2	4
702C-HN2	18 mm	19	81	55	G3/8	18.5	36	17	35.5	G1/8	16.5	40	45,5	4.5	4.65	63.85	5.5	4,,35	1.3

Intermediate supply module



Intermediate supply module for manifold bases with conveyed inlets and exhausts and front outlets.

The following is supplied: 1x seal 2x fixing screws



DIMENSIONS													
Mod.	Size ISO	Α	В	С	D	E	F	G	Н	L	М	N	P
701C-N1N	26 mm	27	100	65	G1/4	29	42	M5	6,5	10	M4	10	10
702C-N2N	18 mm	19	81	55	G1/8	22,5	28	M5	5	5	M4	11,5	9,5

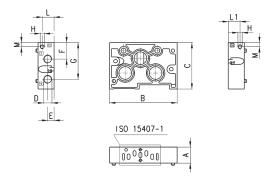


Subbase for manifolds



Manifold subbase with conveyed inlets and exhausts and front outlets.

The following is supplied: 1x seal 2x fixing screws



DIMENSIONS													
Mod.		Size ISO	Α	В	С	D	E	F	G	Н	L	L1	М
701C-N1A	for separated pilots	26 mm	27	107	65	G1/4	11	23	53	M5	20,7	20,7	6,5
702C-N2A	for separated pilots	18 mm	19	81	55	G1/8	7,5	19,5	44,5	M5	13	6	7
701C-N1C		26 mm	27	107	65	G1/4	11	23	53	M5	20,7	20,7	6,5
702C-N2C		18 mm	19	81	55	G1/8	7,5	19,5	44,5	M5	13	6	7

Diaphragm cover for subbase

Diaphragm for subbase with conveyed inlet and exhausts and side outlets.





Mod.

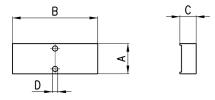
701C-N1A-TP

702C-N2A-TP

Excluder tap for subbase



The following is supplied: 1x seal 2x screws

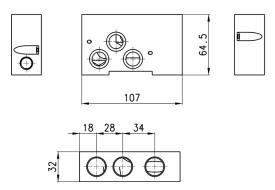


DIMENSION	IS				
Mod.	Size ISO	А	В	С	D
701-TP	26 mm	26,5	61,7	10	4,2
702-TP	18 mm	18,5	52,2	10	3,2

Interface between ISO 01 and ISO 02



The following is supplied: 1x tap S2610 3/8 5x OR 2x screws



Mod. 701C-702C-A



Series NA valves and solenoid valves

3/2 - 5/2 - 5/3-way CC CO CP with holes configured according NAMUR standards



The pneumatic interface connection complies with NAMUR standards. These solenoid valves can be equipped with solenoids that are in compliance with UL or ATEX standards.

GENERAL DATA

Construction	spool type (servo-pilot operated)
Valve functions	3/2-way NC, NO - 5/2-way - 5/3-way CC, CO, CP
Materials	AL body - stainless steel spool - NBR seals
Mounting	through 2 Ø5 holes in the valve body
Ports	2 - 4 = NAMUR 1 - 3 - 5 = G1/4
Installation	directly on a Namur Interface
Operating temperature	0 ÷ 60°C (using dry air -20°C)
Operating pressure	1,5 - 10 bar double solenoid 2,5 - 10 bar single solenoid
Nominal pressure	6 bar
Nominal flow	Qn = 1000 NI/min
Nominal diameter	8 mm
Fluid	filtered air without lubrication.

If lubricated air is used, it is recommended to use ISOVG32 oil, and to never interrupt the lubrication.



CODING EXAMPLE

NA 5 4N - 15 - 02 IL - U7 7	
-----------------------------	--

SERIES NAMUR NA

NUMBER OF WAYS - POSITIONS: 5

3 = 3/2 NC 4 = 3/2 NO

5 = 5/2 6 = 5/3 CC 7 = 5/3 CO 8 = 5/3 CP

4N

PORTS: 4N = G1/4 supply ports according NAMUR standards

15

ACTUATION: 11 = double solenoid

15 = single solenoid, spring return 33 = pneumatic pneumatic

35 = pneumatic, spring

SOLENOID INTERFACE: 02 02 = mech. sol. 22 x 22

TYPE OF MANUAL OVERRIDE: IL

= bistable, standard
IL = bistable, lever type (available on demand)
IM = monostable (available on demand)

SOLENOID MATERIAL / SOLENOID DIMENSIONS:

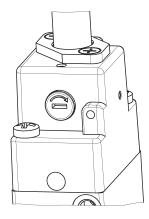
A8 = PPS / 30 x 30 G7 = PA / 22 x 22 G8 = PA / 30 x 30 (24 V DC only)

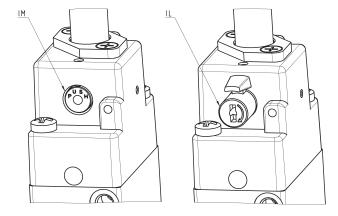
G9 = PA / 22 x 58 H8 = Self-extinguishing PA, Explosion-proof / 30 x 30

U7 = PET / 22 x 22

SOLENOID VOLTAGE (see the dedicated section 2.35) 7

TYPES OF MANUAL OVERRIDE





Example of solenoid valve with a bistable standard manual override.

Example of solenoid monostable valve (IM) and bistable valve with a lever type manual override (IL).

C₹ CAMOZZI

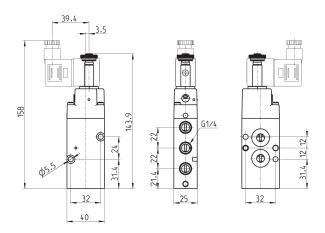
SERIES NA VALVES AND SOLENOID VALVES

3/2-way solenoid valve NC and NO







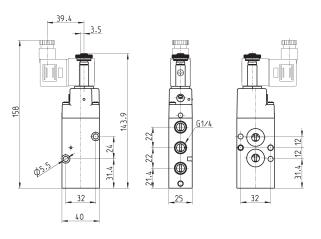


Mod.	Symbol	
NA34N-15-02	EV10	
NA44N-15-02	EV12	

5/2-way solenoid valve, monostable



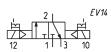


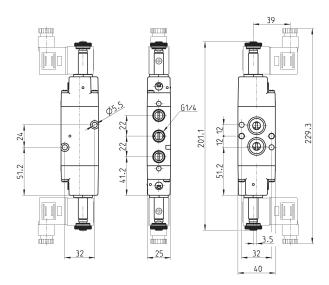


Mod.

3/2-way solenoid valve, bistable







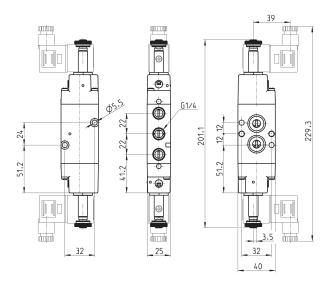
Mod.

NA34N-11-02

5/2-way, solenoid valve, bistable







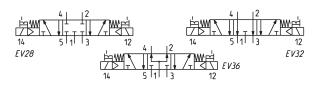
Mod. NA54N-11-02

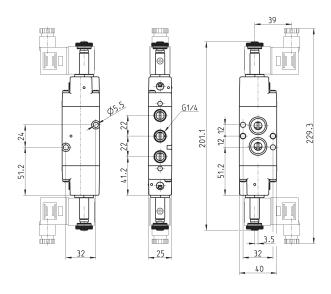
C₹ CAMOZZI

5/3-way solenoid valve CC CO CP







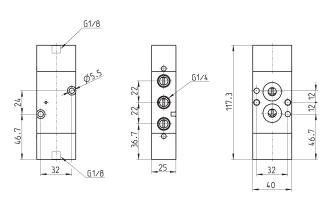


Mod.	Symbol	
NA64N-11-02	EV28	
NA74N-11-02	EV32	
NA84N-11-02	EV36	

5/2-way pneumatic valve, bistable









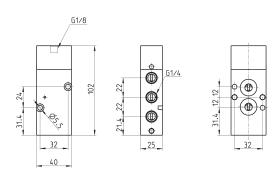
Mod.

NA54N-33



5/2-way pneumatic valve, monostable



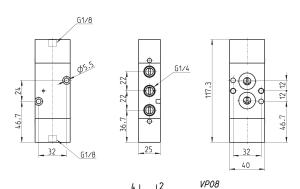


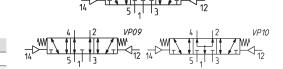


Mod. NA54N-35

5/3-way pneumatic valve CC CO CP







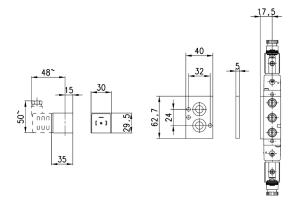
Mod.		
NA64N-33	VP08	
NA74N-33	VP09	
NA84N-33	VP10	

Single subbase Mod. NA54-PC



Distance plate for the mounting of Series H8 solenoids

Supplied with: 2x screws 2x 0-rings



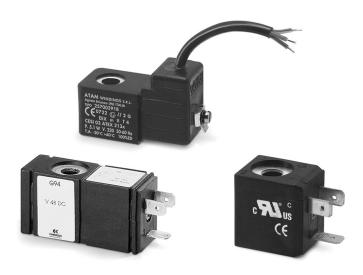
Mod.



Solenoids GP... - B7... - G93 - U7... - U7...EX - G7... -A8... - B8... - H8... - B9...

Version A and B

Connections according to industrial standard and to DIN EN 175 301-803 standards



The mechanical part of the tube in the solenoid valves Series A, 3, 4, 9 and NA allows the mounting of various types of solenoids.

- » Mod. GP...: in compliance with industrial standard (9.4mm) and designed to be mounted only on Series AP proportional valves, size 16 mm.
- » Mod. B...: to be used only with Series CFB solenoid valves (2/1.30).
- » Mod. G93: special solenoids with incorporated memory for pulsed operation.
- » Mod. U7...: standard solenoids are certified by UL as Recognized Component for USA and Canada. Solenoids Mod. U7 are available also with ATEX certification.
- » Mod. H8...: explosionproof solenoids suitable for potentially explosive ambients (ATEX, IECEx).

GENERAL DATA

Wire insulation	U7 / G7 / G93 class F (155° C)	A8 class H (180° C)	B class H (200° C)	H8 class H (200° C)
Protection class	IP54 - DIN 40050 IP65 (with connector Mod. 122-800 and Mod. 122-800EX)	IP54 - DIN 40050 IP65 (with connector Mod. 124-800)	IP54 - DIN 40050 IP65 (with connector Mod. 124-800)	IP64
Operation	ED 100%	ED 100%	ED 100%	ED 100%
Tolerance V AC	-15% / +10%	-15% / +10%	±10%	-
Tolerance V DC	±10%	±10%	±5%	-

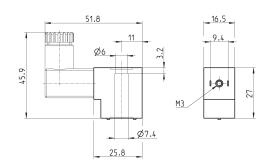


Solenoids Mod. GP...



Electrical connection: bipolar Norm: industrial standard (9.4 mm)

Solenoid material: PA



Mod.	Solenoid voltage	Power absorption
GPH	12 V DC	3 W
GP7	24 V DC	3 W

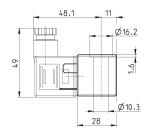
Solenoids Mod. B7...

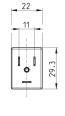


Electrical connection: bipolar plus earth

Norm: DIN EN 175 301-803-B

Solenoid material: PA-MXD6



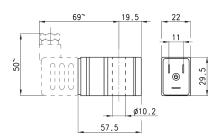


Mod.	Solenoid voltage	Power absorption
B7B	24 V - 50/60 Hz	9 VA
B7D	110 V - 50/60 Hz	9 VA
B7E	230 V - 50/60 Hz	9 VA
В7Н	24 V - 50/60 Hz	4 VA
B72	12 V - DC	10 W
B73	24 V - DC	10 W
B74	24 V - DC	7 W

Solenoids Mod. G93 (with memory)



Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-B Voltage tolerance: ±10% Pulsed operation (see description)



Mod.	Voltage	Minimum inpulse latch/release	Consumption latch/release
G93	24 V DC	18 ms - 10 ms	168 mA - 80 mA

Description of solenoids Mod. G9...

Solenoids Mod. G9... can be replaced on all other Series A solenoid valves or pilots allowing to change the valve functioning from:

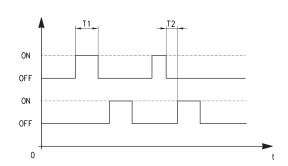
- unstable functioning system (spring return) to:
- stable functioning system (memory)

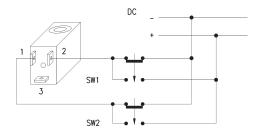
The stable functioning has the following advantages:

- with an impulse of about 20 ms after which the valve always remains in the controlled position.
- the valve remains in the controlled position (opened or closed) even if there is no power.
- when normally opened valves should be used, it is not necessary to use valves with special mechanical parts as a NC valve becomes a NO valve just by changing the control impulse sequence.
- The impulse control system facilitates the utilization with electronic circuits. The minimum required impulse for the function is 20 ms; if, for circuit reasons, the impulse last for a longer period, there is no danger of heating.
- magnet attraction command = Actuation SW1
- magnet release command = Actuation SW2

If the solenoids are mounted in batteries, a magnetic scheme type G90/L should be used.

To facilitate the cabling a special connector is available, which contains a circuit which realises the inversion of the power supply to the solenoid, indispensable for the PLC command, 122-892 P with common positive or 122-893 N with common negative.





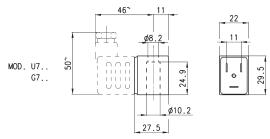
Solenoids Mod. U7... / U7*EX and Mod. G7...

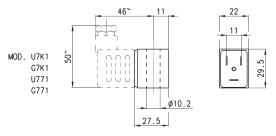




Electrical connection: bipolar plus earth
Norm: DIN EN 175 301-803-B
Solenoid material: U7* = PET: G7* = PA
To order the ATEX version of Mod. U7 (not available
for Mod. U7F, U7K1 with voltage 125V 50/60Hz) it is
necessary to add EX at the end of the code.
Mod. U7*EX marked:
II 3G Ex nA IIC T4 Gc X IP65
II 3D Ex tc IIIC 130°C Dc X

Mod.	Sol. volt. (1)	Pow. abs. (1)	Sol. volt. (2)	Pow. abs. (2)	Sol. volt. (3)	Pow. abs. (3)
U7H	12 V DC	3.1 W	24V - 50/60 Hz	3.5 VA		
G7H	12 V DC	3.1 W	24V - 50/60Hz	3.5 VA		
U7K	110V - 50/60Hz	3.8 VA	125V - 50/60Hz	5.5 VA	72 V DC	4.8 W
U7K1	110V - 50/60Hz	5.8 VA	125V - 50/60Hz	8.3 VA	72 V DC	5.6 W
G7K	110V - 50/60Hz	3.8 VA	125V - 50/60Hz	5.5 VA	72 V DC	4.8 W
G7K1	110V - 50/60Hz	5.8 VA	125V - 50/60Hz	8.3 VA	72 V DC	5.6 W
U7J	230V - 50/60Hz	3.5 VA	240V - 50/60Hz	4 VA		
G7J	230V - 50/60Hz	3.5 VA	240V - 50/60Hz	4 VA		
U79	48 V DC	3.1 W				
G79	48 V DC	3.1 W				
U710	110 V DC	3.2 W				
G710	110 V DC	3.2 W				
U77	24 V DC	3.1 W	48V - 50/60Hz	3.8 VA		
U771	24 V DC	3.1 W	48V - 50/60Hz	3.8 VA		
G77	24 V DC	3.1 W	48V - 50/60Hz	3.8 VA		
G771	24 V DC	3.1 W	48V - 50/60Hz	3.8 VA		
U7F	380V - 50/60Hz	7 VA				
U72	12 V DC	5 W				
G72	12 V DC	5 W				
U73	24 V DC	5 W				
G73	24 V DC	5 W				



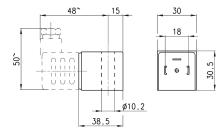


Notes to the table: Sol. volt. = Solenoid voltage Pow. abs. = Power absorption Mod. U7K1, G7K1, U771 and G771 are to be used only with sol. valves series A, NO in line.

Solenoids Mod. A8...



Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-A



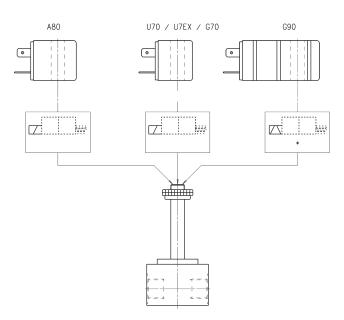
Mod.	Solenoid voltage	Power absorption
A8B	24V - 50/60Hz	5VA
A8D	110V - 50/60Hz	5VA
A8E	220V - 50/60Hz	5VA
A83	24V DC	4W

Solenoids for solenoid valves Series A, 3, 4, 9 and NA

All solenoids presented can be mounted on the following solenoid valves: Series A - 3 - 4 - 9 - NA $\,$

NB:

For the tightening of the solenoids' nut we recommend to do it manually, avoiding the use of any equipment.



€ CAMOZZI

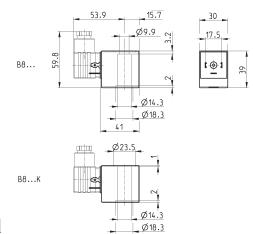
Solenoids Mod. B8...



Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-A

Solenoid material: PA-MXD6

The B8*K models can be used only with some solenoid valves Series CFB (Mod. CFB-D1..., 2/2 NO). Further details in the dedicated section 1.30.



Mod.	Solenoid voltage	Power absorption
B8B	24 V - 50 Hz	15 VA
B8BK	24 V - 50 Hz	15 VA
B8D	110 V - 50/60 Hz	15 VA
B8DK	110 V - 50/60 Hz	15 VA
B8E	220/230 V - 50/60 Hz	15 VA
B8EK	230 V - 50/60 Hz	15 VA
B8F	220/230 V - 50/60 Hz	21 VA
B8FK	220/230 V - 50/60 Hz	21 VA
B82	12 V - DC	19 W
B82K	12 V - DC	19 W
B83	24 V - DC	19 W
B83K	24 V - DC	19 W

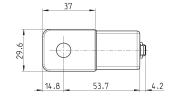
Solenoid Mod. H8.. for potentially explosive ambients

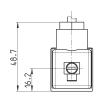


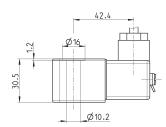
Certification in compliance with EN 60079-0 EN 60079-18 ATEX: II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T135°C Db I M2 Ex mb I Mb INERIS 06ATEX0002X

IECEX: EX mb IIC T4 Gb EX mb IIIC T135°C Db EX mb I Mb IECEX INE 15.0053X

For Series NA use plate mod. NA54-PC.







Mod.	Solenoid voltage	Power absorption
H83I	24 V - DC	5.3 W
H8BI	24 V - 50/60 Hz	5.3 W
нвсі	48 V - 50/60 Hz	5.3 W
H8DI	110 V - 50/60 Hz	5.3 W
H8EI	230 V - 50/60 Hz	5.3 W

Temperature class/Max surface temperature: T4/135°C Environment temperature: -20°C + 40°C Connection: tripolar cable 3 m (other lenghts on request) Incapsulating material: self-extinguishing PA.

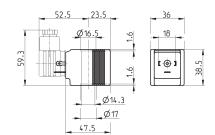


Solenoids Mod. B9...



Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-A

Solenoid material: PA-MXD6



Mod.	Solenoid voltage	Power absorption
В9В	24 V - 50 Hz	29 VA
B9D	110 V - 50/60 Hz	29 VA
B9E	230 V - 50 Hz	29 VA
B92	12 V - DC	30 W
B93	24 V - DC	30 W

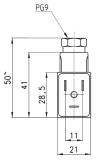
Connectors Mod. 122-... DIN EN 175 301-803-B

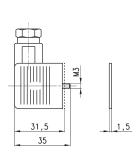


For solenoids Mod. U7/U7*EX, G7 and B7

Mod. 122-800EX:

for ATEX certified solenoids mod. U7*EX, with antiscrewing off screw mod. TORX.





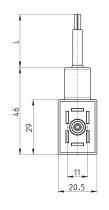
Mod.	description	colour	working voltage	cable holding	tightening torque
122-601	connector, diode + Led	transparent	10/50 V DC	PG9	0.5 Nm
122-701	connector, varistor + Led	transparent	24 V AC/DC	PG9	0.5 Nm
122-702	connector, varistor + Led	transparent	110 V AC/DC	PG9	0.5 Nm
122-703	connector, varistor + Led	transparent	230 V AC/DC	PG9	0.5 Nm
122-800	connector, without electronics	black	-	PG9	0.5 Nm
122-800EX	connector, without electronics	black	-	PG9	0.5 Nm

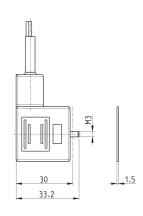
Connectors Mod. 122-571 DIN EN 175 301-803-B with cable

For solenoids Mod. U7/U7*EX, G7 and B7



Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
122-571-1	moulded cable, varistor + Led	black	24 V AC/DC	1000 mm	-	0.5 Nm
122-571-2	moulded cable, varistor + Led	black	24 V AC/DC	2000 mm	-	0.5 Nm
122-571-3	moulded cable, varistor + Led	black	24 V AC/DC	3000 mm	-	0.5 Nm
122-571-5	moulded cable, varistor + Led	black	24 V AC/DC	5000 mm	-	0.5 Nm
122-571-10	moulded cable, varistor + Led	black	24 V AC/DC	10000 mm	-	0.5 Nm



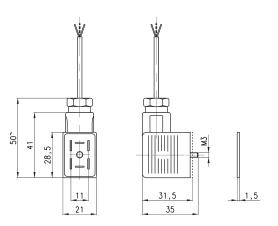


C₹ CAMOZZI

Connectors Mod. 122-89*C DIN EN 175 301-803-B



For solenoids Mod. G9



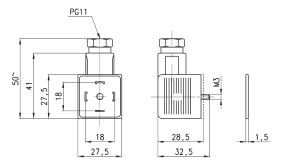
Mod.	description	colour	working voltage	cable length [L]	cable holding	tightening torque
122-8920	pre-wired connector, positive common	transparent	12/24V DC	2000 mm	PG9	0.5 Nm
122-893C	pre-wired connector, negative common	transparent	12/24V DC	2000 mm	PG9	0.5 Nm

Connector Mod. 124-... DIN EN 175 301-803-A



For solenoids Mod. A8 and Mod. B8/B9

Protection class IP65



Mod.	description	colour	working voltage	cable holding	tightening torque
124-800	connector, without electronics	black	-	PG9/PG11	0.5 Nm
124-702	connector, varistor + Led	black	110 V AC/DC	PG9/PG11	0.5 Nm
124-701	connector, varistor + Led	black	24 V AC/DC	PG9/PG11	0.5 Nm
124-703	connector, varistor + Led	black	230 V AC/DC	PG9/PG11	0.5 Nm