CATALOGUE



VALVES AND SOLENOID VALVES



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Camozzi Automation is a global leader in the design and production of motion and fluid control components, systems and technologies for Industrial automation, Transportation and Life science industries.



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1

1

2



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1 2 5

3

4

6 7

8

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1

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5 Valves and solenoid valves



Direct and indirect acting 2/2, 3/2 solenoid valves Solenoid, pneumatic and manifold valves Mechanical and manual valves Logic valves Automatic valves Flow control valves Silencers

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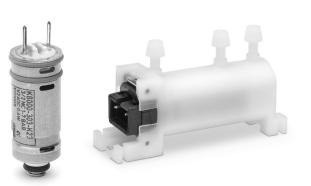
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New models

Series K8 - K8X direct acting 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)



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

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

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 Operation Pneumatic connections Orifice diameter Flow efficient kv (l/min) Operating pressure Operating temperature Media Response time (ISO 12238) Installation	2/2 NC - 3/2 NC - 2/2 NO - 3/2 NO - 3/2 UNI direct acting poppet type cartridge seat in manifold / barb fittings for tube 4/2 - 4/2.5 - 5/3 mm 0.5 0.7 mm 0.08 0.15 -1 ÷ 3 7 bar 0 ÷ 50 °C filtered compressed air, unlubricated, according to ISO 8573-1:2010 class [3:4:3], inert gas ON <10 ms - OFF <10 ms in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body Seals Internal parts	brass - stainless steel - PBT FKM stainless steel - enamelled copper
ELECTRICAL FEATURES	
Voltage Voltage tolerance Power consumption Duty cycle Electrical connection Protection class	3 24 V DC - other voltages on demand ±10% 0.6 W ED 100% 2 pins 0.5 x 0.5 pitch 4 mm - JST connector with 300 mm flying leads IP00

Special versions available on demand

K

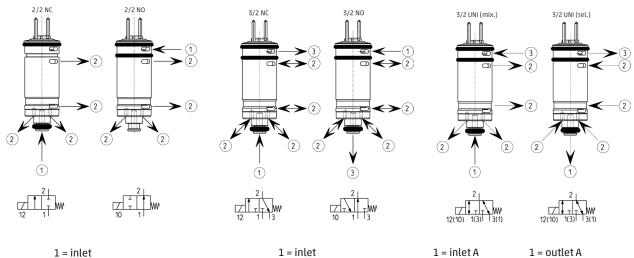
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SERIES - K8-K8X SOLENOID VALVES

CODING EXAMPLE

		1		1		1				
K8	0	00	-	3	0	3	-	К	2	3
			1	1						
K8	SERIES									
0	VALVE VERSION 0 = cartridge va X = cartridge va	lve lve with PBT body								
00	1A = valve with 1B = valve with	alve without body PBT body and barb f PBT body and barb f PBT body and barb fi	ittings for tube Ø 4	i/2.5 mm						
3	NUMBER OF WAY 3 = 3/2-way - N 4 = 3/2-way - N 5 = 2/2-way - N	C 6 = 2/2-	way - NO way - UNI							
0	SEALS MATERIAL 0 = FKM									
3	5 = Ø 0.7 mm	ER nax pressure 7 bar) nax pressure 4 bar)								
К	MATERIALS K = brass orifice									
2	ELECTRICAL CON 2 = pins - pitch 4 3 = JST connecto		g leads							
3	VOLTAGE - POWE 1 = 6 V DC - 0.6 V 2 = 12 V DC - 0.6 3 = 24 V DC - 0.6	W 6 = 3 V DC								
	OPTIONS = standard OX1 = for use wi	ith oxygen (non vola	tile residual less t	han 550 mg/m²)						

AVAILABLE FUNCTIONS



2 = outlet



1 = inlet A 2 = outlet 3 = inlet B

2 = inlet

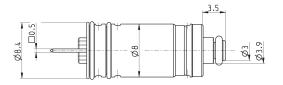
3 = outlet B

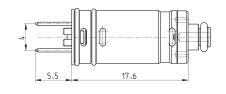
Series K8 solenoid valve - cartridge version



* add - VOLTAGE (see CODING EXAMPLE)





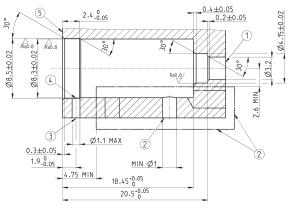


Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)
K8000-503-K2*	2/2 NC	0.5	0.08	1 ÷ 7
K8000-506-K2*	2/2 NC	0.5	0.08	-1÷4
K8000-505-K2*	2/2 NC	0.7	0.15	-1÷3
K8000-603-K2*	2/2 NO	0.6	0.10	1÷7
K8000-606-K2*	2/2 NO	0.6	0.10	-1 ÷ 4
K8000-303-K2*	3/2 NC	0.5	0.08	1 ÷ 7
K8000-306-K2*	3/2 NO	0.5	0.08	-1 ÷ 4
K8000-305-K2*	3/2 NC	0.7	0.15	-1÷3
K8000-403-K2*	3/2 NO	0.6	0.10	1 ÷ 7
K8000-406-K2*	3/2 NO	0.6	0.10	-1 ÷ 4
K8000-405-K2*	3/2 NO	0.6	0.10	1÷7
K8000-703-K2*	3/2 UNI	0.5	0.08	0 ÷ 3
K8000-705-K2*	3/2 UNI	0.7	0.15	-1 ÷ 2

Series K8 solenoid valve - valve seat dimensions for manifolds

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 A	outlet A
PORT 2	outlet	outlet	outlet	outlet	outlet	inlet
PORT 3	-	inlet	exhaust	inlet	inlet B	outlet B

1.01.03 3

Series K8X solenoid valve - PBT version body

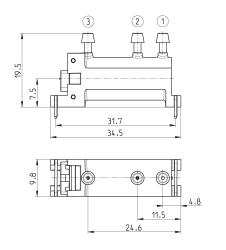


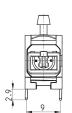


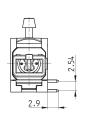
* add - BODY DESIGN - VOLTAGE (see CODING EXAMPLE)

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)
K8X1*-503-K3*	2/2 NC	0.5	0.08	1 ÷ 7
K8X1*-506-K3*	2/2 NC	0.5	0.08	-1 ÷ 4
K8X1*-505-K3*	2/2 NC	0.7	0.15	-1 ÷ 3
K8X1*-603-K3*	2/2 NO	0.6	0.10	1÷7
K8X1*-606-K3*	2/2 NO	0.6	0.10	-1 ÷ 4
K8X1*-303-K3*	3/2 NC	0.5	0.08	1 ÷ 7
K8X1*-306-K3*	3/2 NC	0.5	0.08	-1 ÷ 4
K8X1*-305-K3*	3/2 NC	0.7	0.15	-1 ÷ 3
K8X1*-403-K3*	3/2 NO	0.6	0.10	1 ÷ 7
K8X1*-406-K3*	3/2 NO	0.6	0.10	-1 ÷ 4

Series K8X solenoid valve - dimensions









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 A	outlet A
PORT 2	outlet	outlet	outlet	outlet	outlet	inlet
PORT 3	-	inlet	exhaust	inlet	inlet B	outlet B

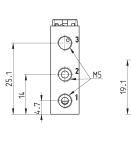
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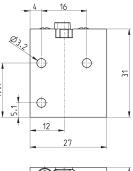
Single body for Series K8 solenoid valve



Material: anodized aluminium Connections: M5 threads

Valve restraint system to be used only with connector Mod. 120-J...







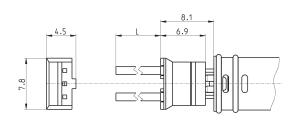
Mod. K8303/14C

SERIES - K8-K8X SOLENOID VALVES

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



Flying leads section: 0.22 mm² Flying lead external diameter: 1.1 mm Material for the flying leads insulation: PVC

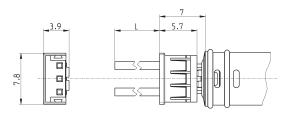


Mod.	description	colour	L = cable length (mm)	cable holding
120-J803	crimped cable connector J	white	300	crimping
120-J806	crimped cable connector J	white	600	crimping

Connector with flying leads 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

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

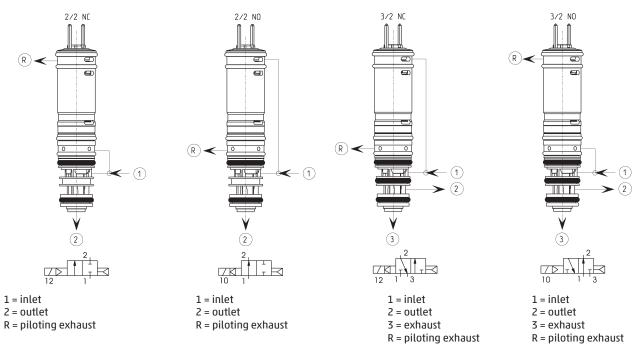
Special versions available on demand

6

CODING EXAMPLE

K8B	С5	4	00	_	D4	3	2	N	_	N	00	1A	C003
KOD	U	-	00	_	04	J	L				00	17	COOD
K8B	SERIES												
C5	C3 = valve	with alumi with alumi	nium body flaı nium body thr ⁄ithout body										
4	NUMBER (1 = 2/2-w 2 = 2/2-w 4 = 3/2-w 5 = 3/2-w	ay - NO ay - NC	NCTIONS										
00	00 = cartr 03 = M7 tl 18 = 2/2-v	IC CONNECTI idge seat in hread way K8B-typ way K8B-typ	manifold e interface										
D4	ORIFICE D D4 = Ø 3.6												
3	SEALS MAT 3 = FKM	TERIALS											
2		ess steel - br	ass - aluminiu ass (cartridge v		ith body version)							
Ν	MANUAL C N = not fo												
Ν		reseen s for plastics rs for metal											
00	OPTION 00 = no oj	ption											
1A	2 = pins -	L CONNECTIO pitch 4 mm nnector with)N 1 300 mm flyir	ig leads									
C003	C001 = 6 \ C002 = 12	POWER CON / DC (0.6 W) V DC (0.6 W V DC (0.6 W)										
	OPTIONS: = star OX1 = for		/gen (non vola	tile residua	al less than 550	mg/m²)							

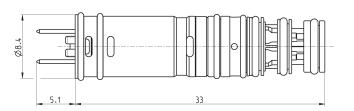
AVAILABLE FUNCTIONS



Solenoid valve Series K8B - cartridge version



* add - VOLTAGE (see CODING EXAMPLE)

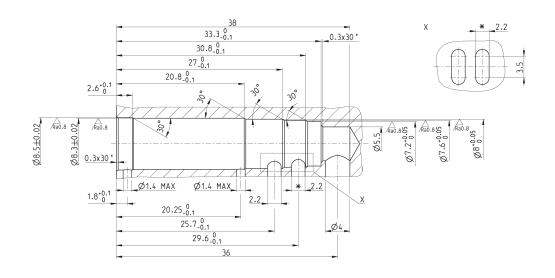


	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)
K8BC5100-D432N-N001A*	2/2 NC	3.6	2.8	1÷7
K8BC5200-D432N-N001A*	2/2 NO	3.6	2.8	1÷7
K8BC5400-D432N-N001A*	3/2 NC	3.6	2.8	1÷7
K8BC5500-D432N-N001A*	3/2 NO	3.6	2.8	1÷7

Series K8B - seat dimensions cartridge version

To achieve the declared flow rate it is necessary to realize the ports with a section of 12.5 mm² (equal to a diameter of 4 mm)

* for the 2/2 version this operation has not to be performed



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

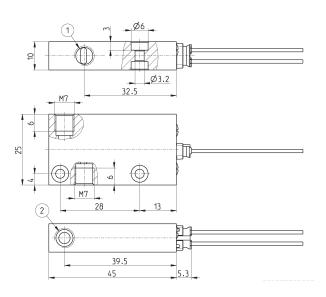


Supplied with: 1x connector with flying leads Mod. 120-J803 (300mm)

* add - VOLTAGE (see CODING EXAMPLE)







Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)
K8BC3103-D431N-N001B*	2/2 NC	3.6	2.8	1÷7
K8BC3203-D431N-N001B*	2/2 NO	3.6	2.8	1÷7

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

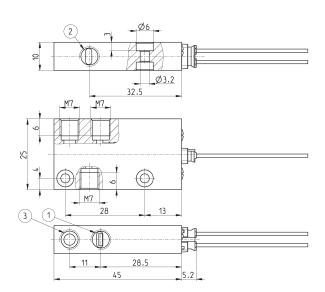


Supplied with: 1x connector with flying leads Mod. 120-J803 (300mm)

* add - VOLTAGE (see CODING EXAMPLE)







Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)
K8BC3403-D431N-N001B*	3/2 NC	3.6	2.8	1÷7
K8BC3503-D431N-N001B*	3/2 NO	3.6	2.8	1÷7

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

plastic

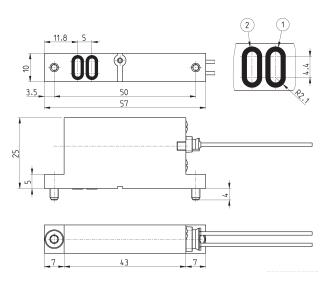


Supplied with: 1x connector with flying leads Mod. 120-J803 (300mm) 2x interface seals 2x M3x6 screws for mounting on metal or 2x Ø3x6 screws for mounting on

* add - FIXING - VOLTAGE (see CODING EXAMPLE)







Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)
K8BC0118-D431N-*001B*	2/2 NC	3.6	2.8	1÷7
K8BC0218-D431N-*001B*	2/2 NO	3.6	2.8	1÷7

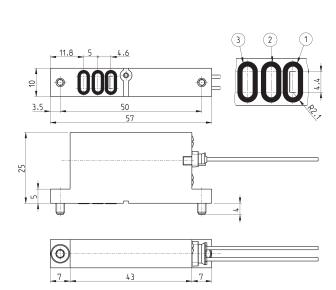
Series K8B solenoid valve - 3/2-way - flanged body version



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

* add - FIXING - VOLTAGE (see CODING EXAMPLE)





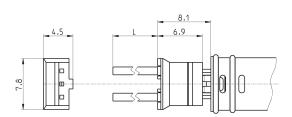
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)
KBC0419-D431N-*001B*	3/2 NC	3.6	2.8	1÷7
KBC0519-D431N-*001B*	3/2 NO	3.6	2.8	1÷7

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



Flying leads section: 0.22 mm² Flying lead external diameter: 1.1 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 media separeted solenoid valves

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

Protection class

TECHNICAL FEATURES	
Function Operation Pneumatic connections Orifice diameter Flow efficient kv (l/min) Operating pressure Operating temperature Media Response time Installation	<pre>2/2 NC direct acting with fluid separation membrane cartridge seat in manifold - on subbase 0.7 mm 0.1 0 ÷ 2.1 bar (FKM/EPDM) / 0 ÷ 1.5 bar (FFKM) 5 ÷ 50 °C (FKM/EPDM) / 20 ÷ 50 °C (FFKM) inert or corrosive liquids and gases compatible with the materials in contact 0N ≤ 10 ms - 0FF ≤ 15 ms in any position</pre>
MATERIALS IN CONTACT WITH THE MEDIUM	
Body Seals	PEEK FKM - EPDM - FFKM
ELECTRICAL FEATURES	
Voltage Voltage tolerance Power consumption Duty cycle Electrical connection	3 24 V DC - other voltages on demand ±10% 0.6 W ED 100% 2 pins 0.5 x 0.5 pitch 4 mm

IP00

CODING EXAMPLE

K8DV	С	00	_	5	0	5	_	G	2	3
NODV	Ľ	00		<u> </u>	U	<u> </u>	_	U	L	J
K8DV	SERIES									
C	TYPE OF BODY C = cartridge ve 0 = flanged ver									
00	NUMBER OF POS 00 = valve with									
5	NUMBER OF WA' 5 = 2/2-way - N									
0	SEAL MATERIAL 0 = FKM 4 = EPDM 5 = FFKM									
5	ORIFICE DIAMET 5 = Ø 0.7 mm	ER								
G	BODY MATERIAL G = PEEK									
2	ELECTRICAL CON 2 = pins - pitch 4									
3	VOLTAGE - POWE 1 = 6V DC - 0.6 V 2 = 12V DC - 0.6 3 = 24V DC - 0.6 4 = 3V DC - 0.6 V 5 = 5V DC - 0.6 V	W W V								
	OPTIONS: = standard OX1 = for use w	ith oxygen (non vol	atile residual less	than 550 mg/m	²)					



Series K8DV solenoid valve - cartridge version



DRAWING LEGEND: 1 = inlet 2 = outlet

* add - VOLTAGE (see CODING EXAMPLE)









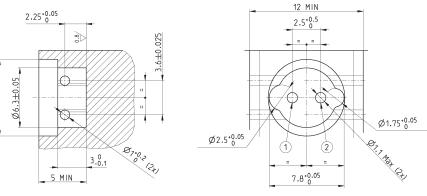
Mod.	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seal material
K8DVC00-505-G2*	0.7	0.1	0 ÷ 2.1	PEEK	FKM
K8DVC00-545-G2*	0.7	0.1	0 ÷ 2.1	PEEK	EPDM
K8DVC00-555-G2*	0.7	0.1	0 ÷ 1.5	PEEK	FFKM

Series K8DV - seat dimensions cartridge version

Ø8.1^{+0.1}

DRAWING LEGEND:

1 = inlet 2 = outlet

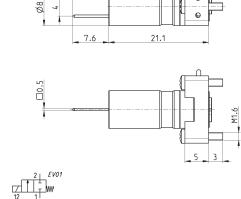


Serie K8DV solenoid valve - flanged version



DRAWING LEGEND: 1 = inlet 2 = outlet

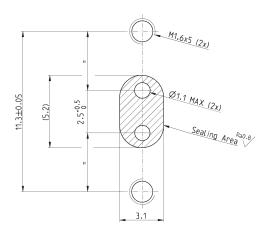
* add - VOLTAGE (see CODING EXAMPLE)



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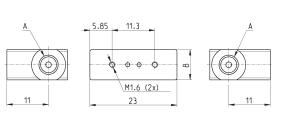
	- 10 - 24 - 2				
Mod.	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seal material
K8DV000-505-G2*	0.7	0.1	0 ÷ 2.1	PEEK	FKM
K8DV000-545-G2*	0.7	0.1	0 ÷ 2.1	PEEK	EPDM
K8DV000-555-G2*	0.7	0.1	0 ÷ 1.5	PEEK	FFKM

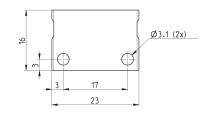
Series K8DV - seat dimensions flanged version



Single sub base for flanged version

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



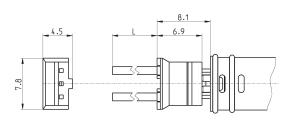


Mod.	Thread A	
K8DV0001-1/4	1/4 - 28 UNF	
K8DV0001-M5	М5	

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

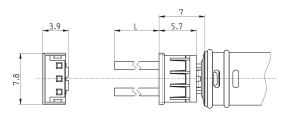


Mod.	description	colour	L = cable length (mm)	cable holding
120-J803	crimped cable connector J	white	300	crimping
120-J806	crimped cable connector J	white	600	crimping

Connector with flying leads Mod. 120-..



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



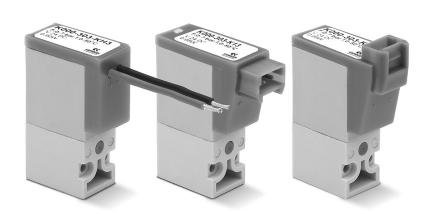
Mod.	description	colour	L = cable length (mm)	cable holding
120-803	crimped cable	white	300	crimping
120-806	crimped cable	white	600	crimping

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

Series K direct acting solenoid valves

DIRECT AND INDIRECT ACTING 2/2 - 3/2 SOLENOID VALVES > SERIES K SOLENOID VALVES

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 direct acting 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

Inanks 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 Operation Pneumatic connections Orifice diameter Flow coefficient kv (l/min) Operating pressure Operating temperature Media Response time Manual override Installation	2/2 NC - 3/2 NC - 3/2 NO direct acting poppet type on subbase 0.6 1 mm 0.12 0.30 0 ÷ 3 7 bar 0 ÷ 50 °C filtered compressed air, unlubricated, according to ISO 8573-1:2010 class [3:4:3], inert gas ON <10 ms - OFF <10 ms monostable - only for 3/2 versions in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body Seals Internal parts	PBT NBR - FKM stainless steel
ELECTRICAL FEATURES	
Voltage Voltage tolerance Power consumption Duty cycle Electrical connection Protection class	6 24 V DC - other voltages on demand ±10% 1 W ED 100% connector mod. 121-8 300 mm flying leads IP50

Special versions available on demand

CODING EXAMPLE

К	0	00	-	3	0	3	-	К	2	3	
К	SERIES								1		
0	BODY DESIGN 0 = single sub 1 = manifold	-base (only M5) or	interface								
00	NUMBER OF P 00 = interface 01 = single ba 02 ÷ 99 = mar	2	ositions								
3	0 = manifold 1 = 2/2-way -		rolved by 180°			-way - NC -way - NC electric	part revolved b		'2-way - NO '2-way - NO elect	ric part revolve	d by 180°
0	PORTS: 0 = on subbas 2 = M5 side ou	e or manifold utlets									
3	ORIFICE DIAMI 2 = Ø 0.6 mm 3 = Ø 0.65 mm 5 = Ø 1.0 mm	n									
К		- FKM poppet seal - HNBR poppet seal	(only for 3/2-way	versions)							
2		ction with protection with protection			C = in-li	ine connection w ne connection w ine connection		G = 30	00 mm flying lead 00 mm flying lead 00 mm flying lead	ds with protecti	
3	VOLTAGE - POV 1 = 6V DC - 1W 2 = 12V DC - 1 3 = 24V DC - 1	W									
	FIXING = fixing scre M = fixing scre	ews for plastic ews for metal									
		d with oxygen (non v with oxygen (non v									

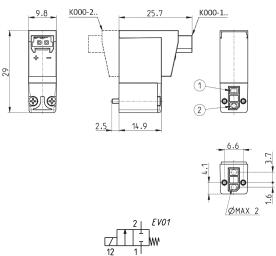
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Series K solenoid valve - 2/2-way NC - 90° connector



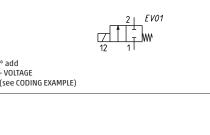
Supplied with: 1x interface seal 2x Ø1.6x16 screws for mounting on plastic or

2x M1.6x16 screws for mounting on metal



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Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)
K000-102-F1*	2/2 NC	0.6	0.15	0 ÷ 6
K000-102-F2*	2/2 NC	0.6	0.15	0 ÷ 6
K000-102-F3*	2/2 NC	0.6	0.15	0 ÷ 6
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

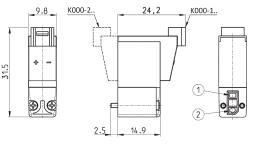


Series K solenoid valve - 2/2-way NC - in-line connector



Supplied with: 1x interface seal 2x Ø1.6x16 screws for mounting on plastic or

2x M1.6x16 screws for mounting on metal)





Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)
K000-102-FB*	2/2 NC	0.6	0.15	0 ÷ 6
K000-102-FC*	2/2 NC	0.6	0.15	0 ÷ 6
K000-102-FD*	2/2 NC	0.6	0.15	0 ÷ 6
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



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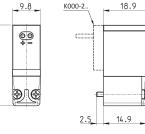


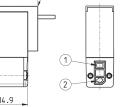
Series K solenoid valve - 2/2-way NC - 300 mm flying leads



Supplied with: 1x interface seal 2x Ø1.6x16 screws for mounting on plastic or

2x M1.6x16 screws for mounting on metal

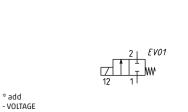




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Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)
K000-102-FF*	2/2 NC	0.6	0.15	0 ÷ 6
K000-102-FG*	2/2 NC	0.6	0.15	0 ÷ 6
K000-102-FH*	2/2 NC	0.6	0.15	0 ÷ 6
K000-105-FF*	2/2 NC	1	0.30	0 ÷ 3
K000-105-FG*	2/2 NC	1	0.30	0 ÷ 3
K000-105-FH*	2/2 NC	1	0.30	0 ÷ 3

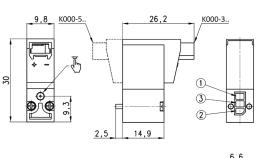


Seris K solenoid valve - 3/2-way NC - 90° connector



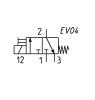
Supplied with: 1x interface seal 2x Ø1.6x16 screws for mounting on plastic or

2x M1.6x16 screws for mounting on metal



SERIES K SOLENOID VALVES

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

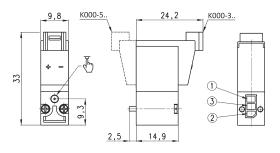






Supplied with: 1x interface seal 2x Ø1.6x16 screws for mounting on plastic or

2x M1.6x16 screws for mounting on metal



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

Series K solenoid valve - 3/2-way NC - 300 mm flying leads



Mod.

K000-303-KF*

K000-303-FF*

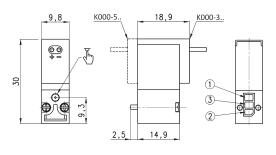
K000-303-KG* K000-303-FG*

K000-303-KH*

K000-303-FH

Supplied with: 1x interface seal 2x Ø1.6x16 screws for mounting on plastic or

2x M1.6x16 screws for mounting on metal



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Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	
3/2 NC	0.6	0.12	0 ÷ 7	
3/2 NC	0.6	0.12	0 ÷ 7	_
3/2 NC	0.6	0.12	0 ÷ 7	
3/2 NC	0.6	0.12	0 ÷ 7	- *;
3/2 NC	0.6	0.12	0 ÷ 7	- V
3/2 NC	0.6	0.12	0 ÷ 7	(se



⁴ add VOLTAGE see CODING EXAMPLE)

* add - VOLTAGE (see CODING EXAMPLE)

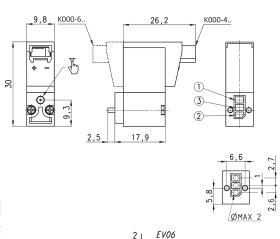
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com

Series K solenoid valve - 3/2-way NO - 90° connector



Supplied with: 1x interface for NO with position ports as per NC 2x interface seals 2x Ø1.6x19 screws for mounting on plastic

or 2x M1.6x19 screws for mounting on metal For use without port 1 and 3 inversion interface, use 16 mm long screws (see accessories)



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Mod.	Function	Orifice Ø (mm)	kv (l/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

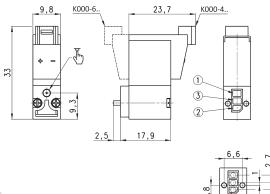




Supplied with: 1x interface for NO with position ports as per NC 2x interface seals

2x Ø1.6x19 screws for mounting on plastic or

2x M1.6x19 screws for mounting on metal For use without port 1 and 3 inversion interface, use 16 mm long screws (see accessories)



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- MM



Mod.	Function	Orifice Ø (mm)	kv (l/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



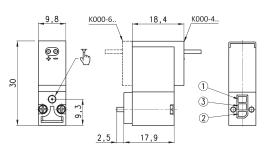
Series K solenoid valve - 3/2-way NO - 300 mm flying leads



Supplied with: 1x interface for NO with position ports as per NC 2x interface seals

2x Ø1.6x19 screws for mounting on plastic or

2x M1.6x19 screws for mounting on metal For use without port 1 and 3 inversion interface, use 16 mm long screws (see accessories)





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Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)
3/2 NO	0.8	0.20	0 ÷ 5
3/2 NO	0.8	0.20	0 ÷ 5
3/2 NO	0.8	0.20	0 ÷ 5
3/2 NO	0.8	0.20	0 ÷ 5
3/2 NO	0.8	0.20	0 ÷ 5

0.20

0 ÷ 5

- VOLTAGE (see CODING EXAMPLE) EV06

Mod.

K000-403-KF*

K000-403-FF*

K000-403-KG*

K000-403-FG*

K000-403-KH*

K000-403-FH

3/2 NO

0.8

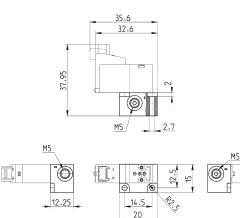


Single sub-base for solenoid valve size 10 mm



Single sub-base suitable for Series K 2-way or 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium Connections: M5 threads



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SERIES K SOLENOID VALVES

Mod. K001-02

Manifold Mod. K1**-02

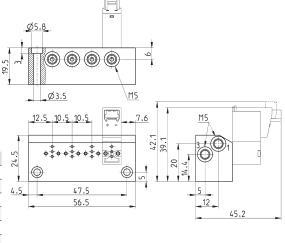


With side outlets and conveyed inlet and exhaust. Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium Connections: M5 threads

** Number of positions

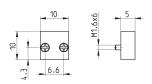
Mod.	А	В	Number of ports
K102-02	35.5	26.5	2
K103-02	46	37	3
K104-02	56.5	47.5	4
K105-02	67	58	5
K106-02	77.5	68.5	6
K107-02	88	79	7
K108-02	98.5	89.5	8
K109-02	109	100	9
K110-02	119.5	110.5	10



Position valve cap



Supplied with: 1x position valve cap 3x O-Rings 2x M1.6x6 screws for mounting on metal



Mod. К000-ТР

Mounting screws for Series K solenoid valves

16 mm long screws for use with Series K 3/2-way NO solenoid valves without port 1 and 3 inversion interface

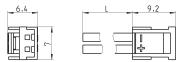


К303/61 К303/61М

Mod.	
K303/61	Ø1.6x16 mm screw for mounting on plastic
K303/61M	M1.6x16 mm screw for mounting on metal

Connector with flying leads Mod. 121-8..





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



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CAMOZZI

Series KL - KLE directly operated solenoid valves

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







- » Application sectors:
 Life Science
 - Industrial Automation
- » Compact design
- » High flow in proportion to the size
- » Extended version for higher performance
- » M8 3 pin electric connection available
- » Monostable and bistable manual override

The new Series KL and KLE 10 mm solenoid valves offer a range with improved models and performance compared to the previous generation. The possibility to use a longer coil allowed to increase the pressure values to which the valves can be submitted.

GENERAL DATA

TECHNICAL FEATURES	
Function	2/2 NC - 3/2 NC - 3/2 NO - 3/2 UNI
Operation	direct acting poppet type
Pneumatic connections	on subbase
Orifice diameter	0.6 1.6 mm
Flow coefficient kv (l/min)	0.12 0.50
Operating pressure	0 ÷ 3 9 bar
Operating temperature	0 ÷ 50 °C
Media	filtered compressed air, unlubricated, according to ISO 8573-1:2010 class [3:4:3], inert gas
Response time	ON <10 ms - OFF <10 ms
Manual override	monostable or bistable - only for 3/2 versions
Installation	in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body	PBT
Seals	FKM
Internal parts	stailess steel - brass
ELECTRICAL FEATURES	
Voltage	6 24 V DC - other voltages on demand
Voltage tolerance	±10%
Voltage tolerance Power consumption	±10% 1 W - 1.3/0.3 W - 4/1 W

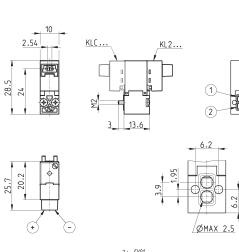
SERIES KL - KLE SOLENOID VALVE

CODING	G EXAMP	PLE										
KL	0	4	0	-	A6	3	Α	Y	-	1	3	М
KL		ES standard = extended										
0	0 = 3 A = 3 2 = 2	2/2 body	L5218 L5218 - coil rota rotated by 180°	ted by 180°								
4	1 = 2 4 = 3 5 = 3	IBER OF WAYS - ?/2-way NC 5/2-way NC 5/2-way NO 5/2-way UNI	FUNCTIONS									
0	POR 0 = 0	rs on subbase or n	nanifold									
A6	A6 = A8 = B1 = B2 = B3 =	ICE DIAMETER Ø 0.60 mm Ø 0.80 mm Ø 1.10 mm Ø 1.20 mm Ø 1.30 mm Ø 1.60 mm										
3	SEAL 3 = F	MATERIAL										
Α	BOD' A = P	Y MATERIAL 'BT										
Y	0 = п Y = п	UAL OVERRIDE not requested c nonostable pistable	or not foreseen									
1	1 = 9 B = ii		with protection ion with protec									
3	1 = 6 2 = 1 3 = 2 A = 6 B = 1 C = 2 5 = 5 6 = 6 7 = 1	AGE - POWER C V DC - 1 W 2 V DC - 1 W 4 V DC - 1 W 4 V DC - 1.3/0.3 2 V DC - 1.3/0.3 4 V DC - 1.3/0.3 5 V DC - 4/1 W 2 V DC - 4/1 W 2 V DC - 4/1 W	W 3 W 3 W									
Μ		IG fixing screws fo ixing screws fo										
		tandard	oxygen (non vo	latile residual l	ess than 550 mg/	/m²)						

Series KL solenoid valve - 2/2-way NC - 90° connector

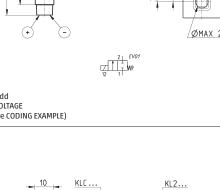


Supplied with: 1x interface seal 2x M2x16 screws for mounting on metal



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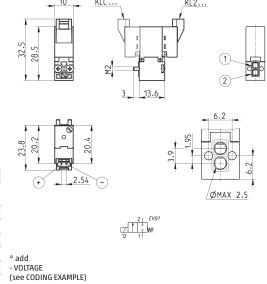
						()
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)	
KL210-A83A0-1*M	2/2 NC	0.8	0.25	0 ÷ 3	1.3/0.3	
KL210-B23A0-1*M	2/2 NC	1.2	0.40	0 ÷ 6	4/1	
KL210-B63A0-1*M	2/2 NC	1.6	0.50	0 ÷ 4	4/1	
KLC10-A83A0-1*M	2/2 NC	0.8	0.25	0 ÷ 3	1.3/0.3	* ado
KLC10-B23A0-1*M	2/2 NC	1.2	0.40	0 ÷ 6	4/1	- VOL
KLC10-B63A0-1*M	2/2 NC	1.6	0.50	0 ÷ 4	4/1	(see



Series KL solenoid valve - 2/2-way NC - in-line connector



Supplied with: 1x interface seal 2x M2x16 screws for mounting on metal



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)
KL210-A83A0-B*M	2/2 NC	0.8	0.25	0 ÷ 3	1.3/0.3
KL210-B23A0-B*M	2/2 NC	1.2	0.40	0 ÷ 6	4/1
KL210-B63A0-B*M	2/2 NC	1.6	0.50	0 ÷ 4	4/1
KLC10-A83A0-B*M	2/2 NC	0.8	0.25	0 ÷ 3	1.3/0.3
KLC10-B23A0-B*M	2/2 NC	1.2	0.40	0 ÷ 6	4/1
KLC10-B63A0-B*M	2/2 NC	1.6	0.50	0 ÷ 4	4/1

Series KLE solenoid valve - 2/2-way NC - 90° connector



Function

2/2 NC

2/2 NC

2/2 NC

2/2 NC

2/2 NC

2/2 NC

Supplied with: 1x interface seal 2x M2x16 screws for mounting on metal

kv

(l/min)

0.25

0.40

0.50

0.25

0.40

0.50

Pressure

min ÷ max (bar)

0 ÷ 5

0 ÷ 8

0 ÷ 6

0 ÷ 5

0 ÷ 8

0 ÷ 6

Power

(W)

1

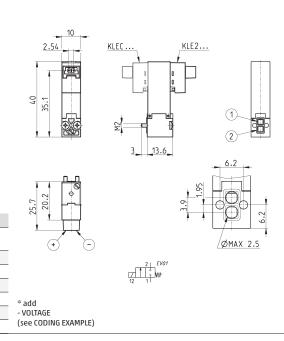
4/1

4/1

1

4/1

4/1



Mod.

KLE210-A83A0-1*M

KLE210-B23A0-1*M

KLE210-B63A0-1*M

KLEC10-A83A0-1*M

KLEC10-B23A0-1*M

KLEC10-B63A0-1*M

Series KLE solenoid valve - 2/2-way NC - in-line connector

Orifice

Ø(mm)

0.8

1.2

1.6

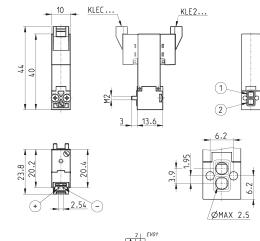
0.8

1.2

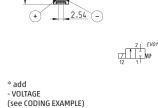
1.6



Supplied with: 1x interface seal 2x M2x16 screws for mounting on metal



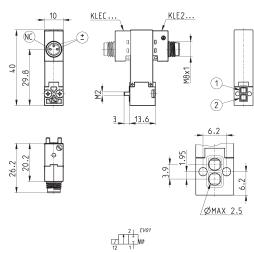
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)
KLE210-A83A0-B*M	2/2 NC	0.8	0.25	0 ÷ 5	1
KLE210-B23A0-B*M	2/2 NC	1.2	0.40	0 ÷ 8	4/1
KLE210-B63A0-B*M	2/2 NC	1.6	0.50	0 ÷ 6	4/1
KLEC10-A83A0-B*M	2/2 NC	0.8	0.25	0 ÷ 5	1
KLEC10-B23A0-B*M	2/2 NC	1.2	0.40	0 ÷ 8	4/1
KLEC10-B63A0-B*M	2/2 NC	1.6	0.50	0 ÷ 6	4/1



Series KLE solenoid valve - 2/2-way NC - M8 connector



Supplied with: 1x interface seal 2x M2x16 screws for mounting on metal



Mod. Function Orifice kv Pressure Power (l/min) min ÷ max (bar) Ø (mm) (W) * add KLE210-A83A0-M*M VOLTAGE 2/2 NC 0.8 0.25 0 ÷ 5 1 (see CODING EXAMPLE) KLEC10-A83A0-M*M 2/2 NC 0.8 0.25 0 ÷ 5 1

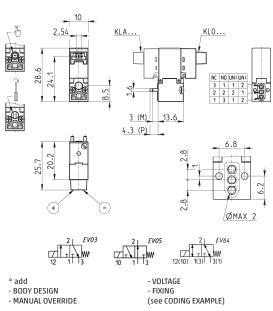
Series KL solenoid valve - 3/2-way - 90° connector



Supplied with: 1x interface seal 2x M1.6x14.7 screws for mounting on metal or

2x Ø1.6x16 screws for mounting on plastic 3/2 UNI models can work with vacuum. The maximum pressure will be reduced by 1 bar.

Mod.	Function	Orifice	kv	Pressure	Power
		Ø(mm)	(l/min)	min ÷ max (bar)	(W)
KL*40-A63A*-1**	3/2 NC	0.6	0.12	0 ÷ 7	1
KL*40-A83A*-1**	3/2 NC	0.8	0.18	0 ÷ 5	1
KL*40-B13A*-1**	3/2 NC	1.1	0.32	3 ÷ 7	4/1
KL*40-B33A*-1**	3/2 NC	1.3	0.37	0 ÷ 3	4/1
KL*50-A63A*-1**	3/2 NO	0.6	0.12	0 ÷ 7	1.3/0.3
KL*50-A83A*-1**	3/2 NO	0.8	0.18	0 ÷ 5	1.3/0.3
KL*50-B13A*-1**	3/2 NO	1.0	0.30	0 ÷ 5	4/1
KL*50-B33A*-1**	3/2 NO	1.3	0.37	0 ÷ 3	4/1
KL*60-A63A*-1**	3/2 UNI	0.6	0.12	0 ÷ 5 [-1 ÷ 4]	1.3/0.3
KL*60-A83A*-1**	3/2 UNI	0.8	0.18	0 ÷ 2 [-1 ÷ 1]	1.3/0.3
KL*60-B13A*-1**	3/2 UNI	1.1	0.30	0 ÷ 3 [-1 ÷ 2]	4/1
KL*60-B33A*-1**	3/2 UNI	1.3	0.37	0 ÷ 2 [-1 ÷ 1]	4/1



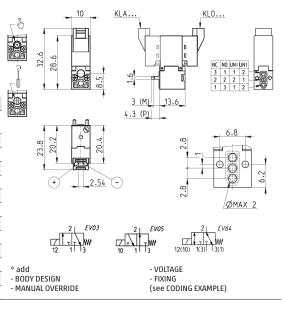
Series KL solenoid valve - 3/2-way - in-line connector



Supplied with: 1x interface seal 2x M1.6x14.7 screws for mounting on metal or

2x Ø1.6x16 screws for mounting on plastic 3/2 UNI models can work with vacuum. The maximum pressure will be reduced by 1 bar.

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)
KL*40-A63A*-B**	3/2 NC	0.6	0.12	0 ÷ 7	1
KL*40-A83A*-B**	3/2 NC	0.8	0.18	0 ÷ 5	1
KL*40-B13A*-B**	3/2 NC	1.1	0.32	3 ÷ 7	4/1
KL*40-B33A*-B**	3/2 NC	1.3	0.37	0 ÷ 3	4/1
KL*50-A63A*-B**	3/2 NO	0.6	0.12	0 ÷ 7	1.3/0.3
KL*50-A83A*-B**	3/2 NO	0.8	0.18	0 ÷ 5	1.3/0.3
KL*50-B13A*-B**	3/2 NO	1.0	0.30	0 ÷ 5	4/1
KL*50-B33A*-B**	3/2 NO	1.3	0.37	0 ÷ 3	4/1
KL*60-A63A*-B**	3/2 UNI	0.6	0.12	0 ÷ 5 [-1 ÷ 4]	1.3/0.3
KL*60-A83A*-B**	3/2 UNI	0.8	0.18	0 ÷ 2 [-1 ÷ 1]	1.3/0.3
KL*60-B13A*-B**	3/2 UNI	1.1	0.30	0 ÷ 3 [-1 ÷ 2]	4/1
KL*60-B33A*-B**	3/2 UNI	1.3	0.37	0 ÷ 2 [-1 ÷ 1]	4/1

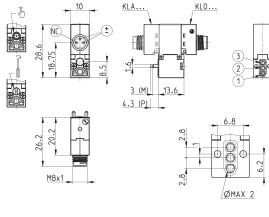


Series KL solenoid valve - 3/2-way - M8 connector



Supplied with: 1x interface seal 2x M1.6x14.7 screws for mounting on metal or

2x Ø1.6x16 screws for mounting on plastic



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)	* add
KL*40-A63A*-M**	3/2 NC	0.6	0.12	0 ÷ 7	1	- BODY DESIGN
KL*40-A83A*-M**	3/2 NC	0.8	0.18	0 ÷ 5	1	- MANUAL OVERRIDE

- VOITAGE

- VOLTAGE
- FIXING
(see CODING EXAMPLE)

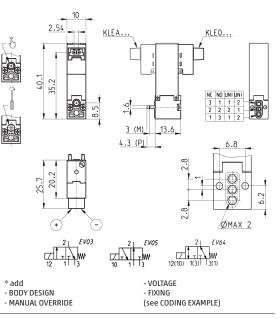
Series KLE solenoid valve - 3/2-way - 90° connector



Supplied with: 1x interface seal 2x M1.6x14.7 screws for mounting on metal or

2x Ø1.6x16 screws for mounting on plastic 3/2 UNI models can work with vacuum. The maximum pressure will be reduced by 1 bar.

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)
KLE*40-A63A*-1**	3/2 NC	0.6	0.12	0 ÷ 9	1
KLE*40-A83A*-1**	3/2 NC	0.8	0.18	0 ÷ 7	1
KLE*40-B13A*-1**	3/2 NC	1.1	0.33	0 ÷ 7	4/1
KLE*40-B33A*-1**	3/2 NC	1.3	0.37	0 ÷ 4	4/1
KLE*50-A63A*-1**	3/2 NO	0.6	0.12	0 ÷ 9	1
KLE*50-A83A*-1**	3/2 NO	0.8	0.18	0 ÷ 7	1
KLE*50-B13A*-1**	3/2 NO	1.0	0.30	0 ÷ 7	4/1
KLE*50-B33A*-1**	3/2 NO	1.3	0.37	0 ÷ 4	4/1
KLE*60-A63A*-1**	3/2 UNI	0.6	0.12	0 ÷ 7 [-1 ÷ 6]	1
KLE*60-A83A*-1**	3/2 UNI	0.8	0.18	0 ÷ 4 [-1 ÷ 3]	1
KLE*60-B13A*-1**	3/2 UNI	1.1	0.30	0 ÷ 4 [-1 ÷ 3]	4/1
KLE*60-B33A*-1**	3/2 UNI	1.3	0.37	0 ÷ 3 [-1 ÷ 2]	4/1



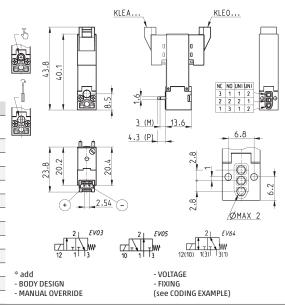
Series KLE solenoid valve - 3/2-way - in-line connector



Supplied with: 1x interface seal 2x M1.6x14.7 screws for mounting on metal or

2x Ø1.6x16 screws for mounting on plastic 3/2 UNI models can work with vacuum. The maximum pressure will be reduced by 1 bar.

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)
KLE*40-A63A*-B**	3/2 NC	0.6	0.12	0 ÷ 9	1
KLE*40-A83A*-B**	3/2 NC	0.8	0.18	0 ÷ 7	1
KLE*40-B13A*-B**	3/2 NC	1.1	0.33	0 ÷ 7	4/1
KLE*40-B33A*-B**	3/2 NC	1.3	0.37	0 ÷ 4	4/1
KLE*50-A63A*-B**	3/2 NO	0.6	0.12	0 ÷ 9	1
KLE*50-A83A*-B**	3/2 NO	0.8	0.18	0 ÷ 7	1
KLE*50-B13A*-B**	3/2 NO	1.0	0.30	0 ÷ 7	4/1
KLE*50-B33A*-B**	3/2 NO	1.3	0.37	0 ÷ 4	4/1
KLE*60-A63A*-B**	3/2 UNI	0.6	0.12	0 ÷ 7 [-1 ÷ 6]	1
KLE*60-A83A*-B**	3/2 UNI	0.8	0.18	0 ÷ 4 [-1 ÷ 3]	1
KLE*60-B13A*-B**	3/2 UNI	1.1	0.30	0 ÷ 4 [-1 ÷ 3]	4/1
KLE*60-B33A*-B**	3/2 UNI	1.3	0.37	0 ÷ 3 [-1 ÷ 2]	4/1



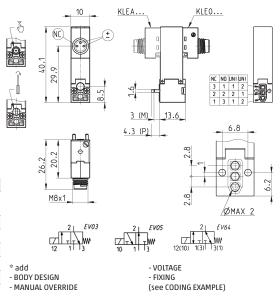
Series KLE solenoid valve - 3/2-way - M8 connector



Supplied with: 1x interface seal 2x M1.6x14.7 screws for mounting on metal or

2x Ø1.6x16 screws for mounting on plastic 3/2 UNI models can work with vacuum. The maximum pressure will be reduced by 1 bar.

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Pressure min ÷ max (bar)	Power (W)
KLE*40-A63A*-M**	3/2 NC	0.6	0.12	0 ÷ 9	1
KLE*40-A83A*-M**	3/2 NC	0.8	0.18	0 ÷ 7	1
KLE*50-A63A*-M**	3/2 NO	0.6	0.12	0 ÷ 9	1
KLE*50-A83A*-M**	3/2 NO	0.8	0.18	0 ÷ 7	1
KLE*60-A63A*-M**	3/2 UNI	0.6	0.12	0 ÷ 7 [-1 ÷ 6]	1
KLE*60-A83A*-M**	3/2 UNI	0.8	0.18	0 ÷ 4 [-1 ÷ 3]	1



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Automatio



SERIES KL - KLE SOLENOID VALVE

Single sub-base for 2-way solenoid valve size 10 mm

metal (see coding)

Single sub-base suitable for Series KL 2-way solenoid valve

Use solenoid valves with screws for mounting on

Material: anodized aluminium Connections: M5 threads



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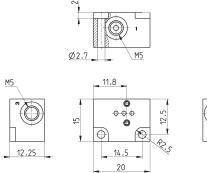
Mod. KL01-02

Single sub-base for 3-way solenoid valve size 10 mm



Single sub-base suitable for Series KN - KL - KLE 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium Connections: M5 threads



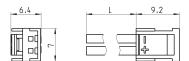
M5

12

Mod. KN01-02

Connector with flying leads Mod. 121-8..





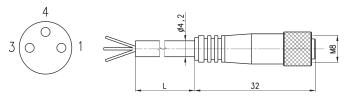
Mod.	description	colour	L = cable length (mm)	cable holding
121-803	crimped cable	black	300	crimping
121-806	crimped cable	black	600	crimping
121-810	crimped cable	black	1000	crimping
121-830	crimped cable	black	3000	crimping

3-wire extension with M8 3-pin female connector



With PU sheathing, non shielded cable. Protection class: IP65

1 BN = Brown 4 BK = Black 3 BU = Blue



Mod.	L = cable length (m)	
CS-2	2	
CS-5	5	
CS-10	10	

Series KN and KN High Flow direct acting solenoid valves

3/2-way - Normally Closed (NC) and Normally Open (NO) 3/2-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 direct acting solenoid valves are available also in the high flow version (KN High Flow).

GENERAL DATA

3/2 NC - 3/2 UNI direct acting poppet type on subbase with ISO 15218 interface 0.65 1.1 mm 0.15 0.39 0 ÷ 3 7 bar 0 ÷ 50 °C filtered compressed air, unlubricated, according to ISO 8573-1:2010 class [3:4:3], inert gas ON <10 ms - OFF <10 ms monostable in any position
PBT NBR - FKM stainless steel
5 24 V DC - other voltages on demand ±10% 1.3/0.25 4/1 W (inrush/holding) ED 100% connector mod. 121-8 IP50

Special versions available on demand

SERIES KN AND KN HIGH FLOW SOLENOID VALVES

CODING EXAMPLE

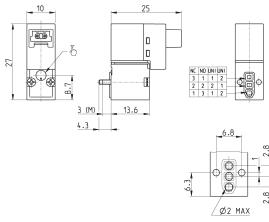
1	1	1		I		1					
KN	0	00	-	3	0	3	-	К	1	3	
									1		
KN	SERIES										
0	BODY DESIGN 0 = single valve										
00	NUMBER OF POSI 00 = interface	IONS									
3	NUMBER OF WAYS 3 = 3/2-way - NC 4 = 3/2-way - NO 7 = 3/2-way - UN										
0	PORTS 0 = ISO 15218 on	subbase or manifol	d								
3	ORIFICE DIAMETER 3 = Ø 0.65 mm 5 = Ø 1.1 mm - or 6 = Ø 1.1 mm	R Ily for NC version wi	ith minimum pr	essure required	to operate						
К		4 poppet - FKM othe M poppet - NBR othe									
1		ECTION n with protection a ction with protectio									
3	VOLTAGE - POWER 2 = 12 V DC - 1.3/ 3 = 24 V DC - 1.3/ 5 = 5 V DC - 4/1 W 7 = 12 V DC - 4/1 V 8 = 24 V DC - 4.1 V	0.25 W 0.25 W N									
	FIXING = fixing screws M = fixing screws										
	OPTIONS = standard OX2 = for use wit	h oxygen (non volat	tile residual less	than 33 mg/m²)						

Series KN solenoid valve - 3/2-way - 90° connector

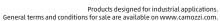


Supplied with: 1x interface seal 2x Ø1.6x16 screws for mounting on plastic or

2x M1.6x14.7 screws for mounting on metal



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Power (W)	Symb.	
KN000-303-K1*	3/2 NC	0.65	0.15	0 ÷ 7	1.3/0.25	EV04	
KN000-303-F1*	3/2 NC	0.65	0.15	0 ÷ 7	1.3/0.25	EV04	
KN000-305-F1*	3/2 NC	1.1	0.39	3 ÷ 7	4/1	EV04	
KN000-306-F1*	3/2 NC	1.1	0.39	0 ÷ 3	4/1	EV04	
KN000-403-F1*	3/2 NO	0.65	0.15	0 ÷ 7	1.3/0.25	EV05	* add
KN000-703-F1*	3/2 UNI	0.65	0.15	0 ÷ 4	1.3/0.25	EV64	- VOLTAGE
KN000-706-F1*	3/2 UNI	1.1	0.39	0 ÷ 1.5	4/1	EV64	(see CODING EXAMPLE)



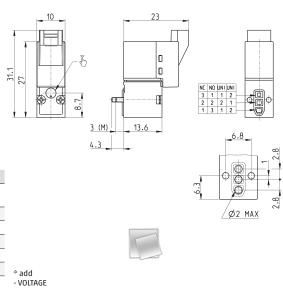
SERIES KN AND KN HIGH FLOW SOLENOID VALVES

Series KN solenoid valve - 3/2-way - in-line connector



Supplied with: 1x interface seal 2x Ø1.6x16 screws for mounting on plastic or

2x M1.6x14.7 screws for mounting on metal



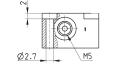
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Power (W)	Symb.
KN000-303-KB*	3/2 NC	0.65	0.15	0 ÷ 7	1.3/0.25	EV04
KN000-303-FB*	3/2 NC	0.65	0.15	0 ÷ 7	1.3/0.25	EV04
KN000-305-FB*	3/2 NC	1.1	0.39	3 ÷ 7	4/1	EV04
KN000-306-FB*	3/2 NC	1.1	0.39	0 ÷ 3	4/1	EV04
KN000-403-FB*	3/2 NO	0.65	0.15	0 ÷ 7	1.3/0.25	EV05
KN000-703-FB*	3/2 UNI	0.65	0.15	0 ÷ 4	1.3/0.25	EV64
KN000-706-FB*	3/2 UNI	1.1	0.39	0 ÷ 1.5	4/1	EV64

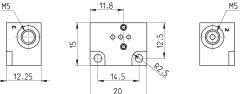
Single sub-base for 3-way solenoid valve size 10 mm



Single sub-base suitable for Series KN - KL - KLE 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium Connections: M5 threads

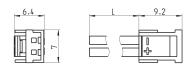




Mod. KN01-02

Connector with flying leads Mod. 121-8..

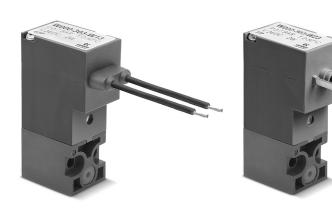




Mod.	description	colour	L = cable length (mm)	cable holding
121-803	crimped cable	black	300	crimping
121-806	crimped cable	black	600	crimping
121-810	crimped cable	black	1000	crimping
121-830	crimped cable	black	3000	crimping

Series W direct acting 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 fittings for Ø3 or Ø4 tube).
- » Electrical connection with flyling leads or in compliance to DIN EN 175 301-803-C standard

Series W direct acting 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 monostable manual override.

GENERAL DATA

TECHNICAL FEATURES	
Function Operation Pneumatic connections Orifice diameter Flow coefficient kv (l/min) Operating pressure Operating temperature Media Response time (ISO 12238) Manual override Installation	3/2 NC - 3/2 NO direct acting poppet type on subbase with ISO 15218 interface 0.8 1.5 mm 0.21 0.54 0 ÷ 5 10 bar 0 ÷ 50 °C filtered air class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas ON <10 ms - 0FF <15 ms monostable in any position
MATERIALS IN CONTACT WITH THE MEDIUM	1
Body Seals Internal parts	PBT PU - NBR - FKM - EPDM stainless steel
ELECTRICAL FEATURES	
Voltage Voltage tolerance Power consumption Duty cycle Electrical connection Protection class	12 48 V DC - other voltages on demand ±10% 2 W - 1 W (24 V DC only) ED 100% connector DIN EN 175 301-803-C (8 mm) - 300 mm flying leads IP65 with connector
Special vertices available on demand	

Special versions available on demand

CODING EXAMPLE

W	0	00	-	3	0	3	-	w	2	3	
	_				_						
W	SERIES										
0	BODY DESIGN 0 = single sub-t 1 = single mani 2 = double man		terface								
00	NUMBER OF POS 00 = ISO 15218 01 = single base 02 ÷ 99 = manif	interface	itions								
3	3 = 3/2-way - N 4 = 3/2-way - N 5 = 3/2-way - N	single sub-base C									
0	2 = M5 thread - 3 = tube Ø 3 mm 4 = tube Ø 4 mm 6 = M5 thread - 7 = tube Ø 3 mm	'S for P - PL - PN - W front outlets n fittings - front out n fittings - front out	clets clets putlets								
3	ORIFICE DIAMET 1 = Ø 0.8 mm 3 = Ø 1.5 mm 5 = Ø 1.1 mm - I 6 = Ø 1.5 mm - I 5 = Ø 0.9 mm - I	NC versions NC versions with vo	ltage tolerance -2	5% ÷ +10%							
W	MATERIALS E = PBT body - E F = PBT body - F W = PBT body -		5								
2	ELECTRICAL CON 1 = 300 mm flyi 2 = DIN EN 175										
3	2 = 12 V DC - 2 V	V - NC Ø 0.8 mm ver V	sion only								
	FIXING = fixing screw P = fixing screw										
		ith oxygen (non vo ith oxygen (non vo									

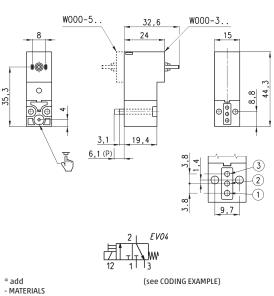
Series W solenoid valve - 3/2-way NC - DIN EN 175 301-803-C (8 mm)



Supplied with: 1x interface seal 2x M3x20 screws for mounting on metal or

2x Ø3x23 screws for mounting on plastic

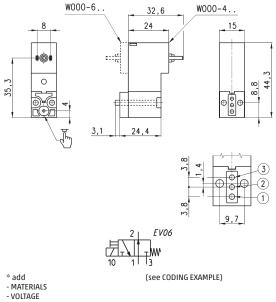
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Power (W)
W000-301-*23	3/2 NC	0.8	0.21	0÷10	1
W000-305-*2*	3/2 NC	1.1	0.39	0÷10	2
W000-303-*2*	3/2 NC	1.5	0.54	0 ÷ 7	2
W000-306-*2*	3/2 NC	1.5	0.39	0 ÷ 3	2
W000-501-*23	3/2 NC	0.8	0.21	0 ÷ 10	1
W000-505-*2*	3/2 NC	1.1	0.39	0÷10	2
W000-503-*2*	3/2 NC	1.5	0.54	0 ÷ 7	2
W000-506-*2*	3/2 NC	1.5	0.39	0 ÷ 3	2
W000-303-W22	3/2 NC	1.5	0.54	0 ÷ 7	2
W000-306-W23	3/2 NC	1.5	0.39	0 ÷ 3	2



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



Supplied with: 1x interface for NO with position ports as per NC (ports 1 and 3 are inverted) 2x interface seals 2x M3x25 screws for mounting on metal



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Power (W)	-
W000-405-*2*	3/2 NO	0.9	0.23	0÷10	2	
W000-403-*2*	3/2 NO	1.5	0.39	0÷5	2	*
W000-605-*2*	3/2 NO	0.9	0.23	0÷10	2	- 1
W000-603-*2*	3/2 NO	1.5	0.39	0÷5	2	\

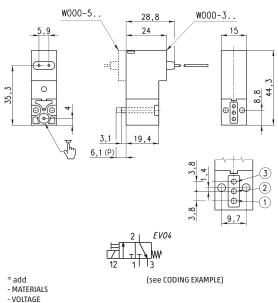
Series W solenoid valve - 3/2-way NC - 300 mm flying leads



Supplied with: 1x interface seal 2x M3x20 screws for mounting on metal or

2x Ø3x23 screws for mounting on plastic

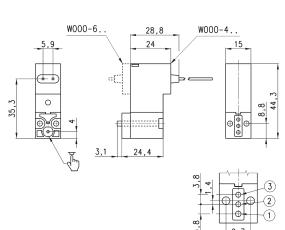
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Power (W)
W000-301-*13*	3/2 NC	0.8	0.21	0÷10	1
W000-305-*1*	3/2 NC	1.1	0.39	0÷10	2
W000-303-*1*	3/2 NC	1.5	0.54	0÷7	2
W000-306-*1*	3/2 NC	1.5	0.39	0÷3	2
W000-501-*13	3/2 NC	0.8	0.21	0÷10	1
W000-505-*1*	3/2 NC	1.1	0.39	0÷10	2
W000-503-*1*	3/2 NC	1.5	0.54	0÷7	2
W000-506-*1*	3/2 NC	1.5	0.39	0÷3	2
W000-303-W12	3/2 NC	1.5	0.54	1.5	2
W000-305-W12	3/2 NC	1.1	0.39	0÷10	2



Series W solenoid valve - 3/2-way NO - 300 mm flying leads



Supplied with: 1x interface for NO with position ports as per NC (ports 1 and 3 are inverted) 2x interface seals 2x M3x25 screws for mounting on metal



	~	» -
2	EV06	
H.T.L		
10 1	13	
	(see CODING E	XAMPLE)

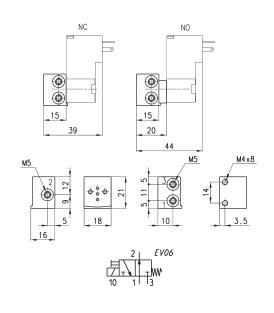
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Power (W)
W000-405-*1*	3/2 NO	0.9	0.23	0÷10	2
W000-403-*1*	3/2 NO	1.5	0.39	0÷5	2
W000-605-*1*	3/2 NO	0.9	0.23	0÷10	2
W000-603-*1*	3/2 NO	1.5	0.39	0÷5	2

Single sub-base for 3-way solenoid valve size 15 mm



Single sub-base suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium Connections: M5 threads



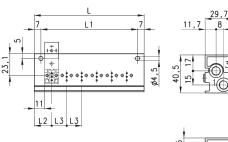
Mod. P001-02

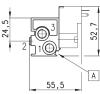
Manifold - single side valve - bottom outlets



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium





DIMENSION	S						
Mod.	Positions	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	61/8	61/8

MANIFOLD PORTS (see CODING EXAMPLE)

* add

A= groove for identification label

Manifold - single side valve - frontal outlets

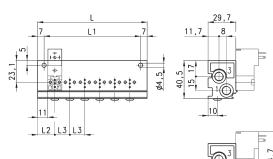


3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Manifold suitable for Series P - PL - PN - W

Can be fixed through DIN 46277/3 guide with the accessory PCF-E520.

Material: anodized aluminium





DIMENSION	S						
Mod.	Positions	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

A= groove for identification label - MANIFOLD PORTS (see CODING EXAMPLE)

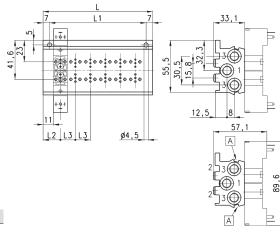
* add

Manifold - double side valve - bottom outlets



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium



DIMENSION	S						
Mod.	Positions	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



Manifold - double side valve - frontal outlets



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Can be fixed through DIN 46277/3 guide with the accessory PCF-E520.

Material: anodized aluminium

L2

18,5

18,5

18,5

18,5

18,5

L3

16

16

16

16

16

1(P)

G1/8

G1/8

G1/8

G1/8

G1/8

3(R)

G1/8

G1/8

G1/8

G1/8

G1/8

add^{*} MANIFOLD PORTS

(see CODING EXAMPLE)

L1

39

55

71

87

103

L

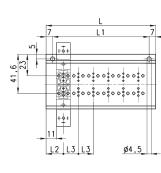
53

69

85

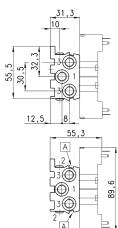
101

117



* add - MANIFOLD PORTS

(see CODING EXAMPLE)



A= groove for identification label

SERIES W SOLENOID VALVES

P210-0* P212-0* 1.10.05

DIMENSIONS

Mod.

P204-0*

P206-0*

P208-0*

Positions

4

6

8

10

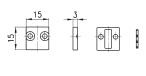
12

VALVES AND SOLENOID VALVES 2021/09

Position valve cap



Supplied with: 1x position valve cap 1x interface seal 2x screws



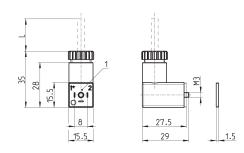
串 串

1 = 90° adjustable connector

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



Mod. P000-TP



Mod.	description	colour	working voltage	cable length [L]	cable gland	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

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Series P direct acting solenoid valves

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



Series P direct acting 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 monostable manual override. » Can be mounted on a single base (M5 connections) or on manifold (M5 connections or fittings for Ø3 o Ø4 tube).

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.

GENERAL DATA

TECHNICAL FEATURES	
Function Operation Pneumatic connections Orifice diameter Flow coefficient kv (l/min) Operating pressure Operating temperature Media Response time (ISO 12238) Manual override Installation	3/2 NC - 3/2 NO direct acting poppet type on subbase with ISO 15218 interface 0.8 1.5 mm 0.21 0.54 0 ÷ 3 10 bar 0 ÷ 50 °C filtered air class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas ON <10 ms - 0FF <15 ms monostable in any position
MATERIALS IN CONTACT WITH THE MEDIU	NA
Body Seals Internal parts	PBT PU - NBR - FKM - EPDM stainless steel
ELECTRICAL FEATURES	
Voltage Voltage tolerance Power consumption Duty cycle Electrical connection Protection class	12 110 V DC - 24 110 V AC 50/60 Hz - other voltages on demand ±10% 1 2 W ED 100% industrial standard connector (9.4 mm) IP65 with connector

Special versions available on demand

CODING EXAMPLE

		I						1		1	
Ρ	0	00	-	3	0	3	-	P	5	3	
Ρ	SERIES										
0	BODY DESIGN 0 = single sub- 1 = single man 2 = double side		or interface								
00	NUMBER OF PO 00 = ISO 15218 01 = single bas 02 ÷ 99 = man	3 interface	positions								
3	0 = manifold o 3 = 3/2-way - I 4 = 3/2-way - I 5 = 3/2-way - I	NC NO NC electric part r	evolved by 180° evolved by 180°								
0	2 = M5 thread 3 = tube Ø 3 m 4 = tube Ø 4 m 6 = M5 thread 7 = tube Ø 3 m	TS for P - PL - PN	outlets outlets om outlets								
3	ORIFICE DIAME 1 = Ø 0.8 mm 3 = Ø 1.5 mm 5 = Ø 1.1 mm - 6 = Ø 1.5 mm - 5 = Ø 0.9 mm -	NC versions NC versions with	h voltage tolerance	-25% ÷ +10%							
Ρ	MATERIALS E = PBT body - F = PBT body - P = PBT body -		eals								
5	ELECTRICAL COM 5 = industrial s	NNECTION tandard (9.4 mn	n)								
3	2 = 12 V DC - 2	W (1 W only for I W	N VC - Ø 0.8 mm versio VC - Ø 0.8 mm versio	n) C = 48 V 5	0/60 Hz - 2 W 0/60 Hz - 2 W 50/60 Hz - 2 W	,					
	FIXING = fixing scre P = fixing screv	ws for metal ws for plastic									
		vith oxygen (nor	n volatile residual le n volatile residual le								

Series P solenoid valve - 3/2-way NC

DIRECT AND INDIRECT ACTING 2/2 - 3/2 SOLENOID VALVES > SERIES P SOLENOID VALVES

Orifice Ø (mm)

0.8



Supplied with: 1x interface seal 2x M3x20 screws for mounting on metal or

2x Ø3x23 screws for mounting on plastic

kv (l/min)

0.21

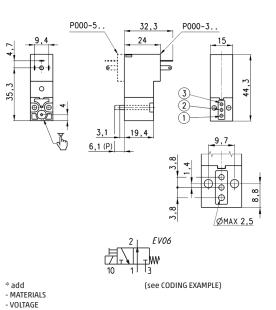
Min÷max pressure (bar)

0 ÷ 10

Power

(W)

1



Mod. P000-301-*5* P000-305-*5* P000-303-*5* P000-306-*5* P000-501-*5* P000-505-*5* P000-503-*5*

_

SERIES P SOLENOID VALVES

P000-305-*5*	3/2 NC	1.1	0.39	0 ÷ 10	2
P000-303-*5*	3/2 NC	1.5	0.54	0 ÷ 7	2
P000-306-*5*	3/2 NC	1.5	0.54	0 ÷ 3	2
P000-501-*5*	3/2 NC	0.8	0.21	0÷10	1
P000-505-*5*	3/2 NC	1.1	0.39	0÷10	2
P000-503-*5*	3/2 NC	1.5	0.54	0 ÷ 7	2
P000-506-*5*	3/2 NC	1.5	0.39	0 ÷ 3	2

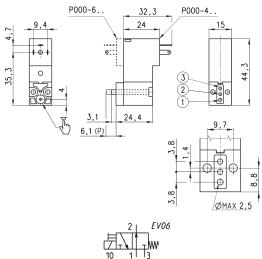
Series P solenoid valve - 3/2-way NO

Function

3/2 NC



Supplied with: 1x interface for NO with position ports as per NC (ports 1 and 3 are inverted) 2x interface seals 2x M3x25 screws for mounting on metal



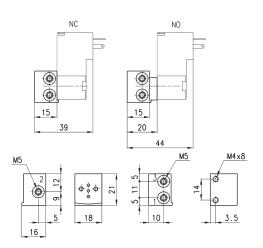
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Power (W)
P000-405-*5*	3/2 NO	0.9	0.23	0÷10	2
P000-403-*5*	3/2 NO	1.5	0.39	0 ÷ 5	2
P000-605-*5*	3/2 NO	0.9	0.23	0 ÷ 10	2
P000-603-*5*	3/2 NO	1.5	0.39	0 ÷ 5	2

Single sub-base for 3-way solenoid valve size 15 mm



Single sub-base suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium Connections: M5 threads



(see CODING EXAMPLE)



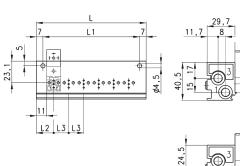
Mod. P001-02

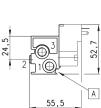
Manifold - single side valve - bottom outlets



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium





A = groove for identification label

DIMENSION	S						
Mod.	Positions	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

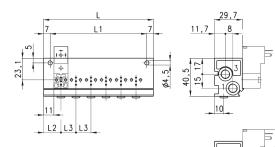
Manifold - single side valve - frontal outlets



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Can be fixed through DIN 46277/3 guide with the accessory PCF-E520.

Material: anodized aluminium



* add

* add - MANIFOLD PORTS (see CODING EXAMPLE)



DIMENSION	IS						
Mod.	Positions	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



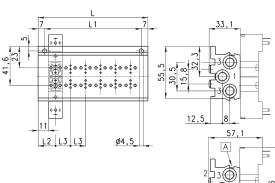
A = groove for identification label

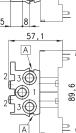
Manifold - double side valve - bottom outlets



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium





A = groove for identification label

DIMENSION	IS						
Mod.	Positions	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	61/8	61/8

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Manifold - double side valve - frontal outlets

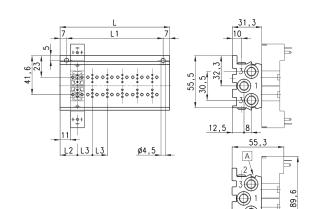
DIRECT AND INDIRECT ACTING 2/2 - 3/2 SOLENOID VALVES > SERIES P SOLENOID VALVES



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Can be fixed through DIN 46277/3 guide with the accessory PCF-E520.

Material: anodized aluminium



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Mo	

SERIES P SOLENOID VALVES

DIMENSION	S							
Mod.	Positions	L	11	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	* add
P210-0*	10	101	87	18.5	16	G1/8	G1/8	- MANIFOLD PORTS
P212-0*	12	117	103	18.5	16	G1/8	G1/8	(see CODING EXAMP

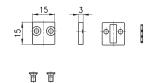
A = groove for identification label

36 A

Position valve cap



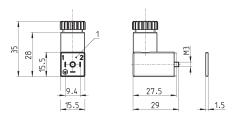
Supplied with: 1x position valve cap 1x interface seal 2x screws



Mod. P000-TP

Connector Mod. 125-... - industrial std. 9.4 mm





Mod.	description	colour	working voltage	cable gland	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	

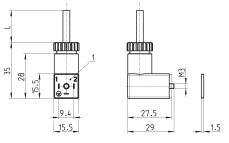
1 = 90° adjustable connector



Connector Mod. 125-... - industrial std. 9.4 mm - 90° 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.



CPI -		
	1.5	

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

Connector Mod. 125-... - industrial std. 9.4 mm - in-line cable

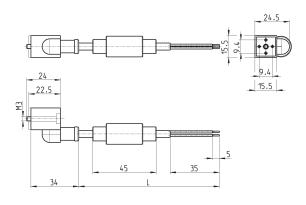


	24			15.5	24.5 9.4 15.5
E	34	L	35	_ 5	

description	colour	working voltage	cable length [L]	cable gland	tightening torque
in-line moulded cable, with diode + Led	black	24 V DC	2000 mm	-	0.3 Nm
in-line moulded cable, with diode + Led	black	24 V DC	5000 mm	-	0.3 Nm
in-line moulded cable, without electronics	black	-	2000 mm	-	0.3 Nm
in-line moulded cable, without electronics	black	-	5000 mm	-	0.3 Nm
	in-line moulded cable, with diode + Led in-line moulded cable, with diode + Led in-line moulded cable, without electronics in-line moulded cable,	in-line moulded cable, with diode + led black in-line moulded cable, with diode + led black in-line moulded cable, without electronics black in-line moulded cable, black black	in-line moulded cable, with diode + Led black 24 V DC in-line moulded cable, with diode + Led black 24 V DC in-line moulded cable, without electronics black - in-line moulded cable, moulded cable, black -	voltage [L] in-line moulded cable, with diode + Led black 24 V DC 2000 mm in-line moulded cable, with diode + Led black 24 V DC 5000 mm in-line moulded cable, without electronics black - 2000 mm	voltage [L] gland in-line moulded cable, with diode + Led black 24 V DC 2000 mm - in-line moulded cable, with diode + Led black 24 V DC 5000 mm - in-line moulded cable, without electronics black - 2000 mm - in-line moulded cable, without electronics black - 2000 mm -

Conn. Mod. 125-... - ind. std. 9.4 mm - in-line cable+rectifier





Mod.	description	colour	working voltage	cable length [L]	cable gland	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

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

- » Application sectors: - Industrial Automation
- Life Science
- Transportation
- Mounting on a single base (M5 connections) or on manifold (M5 or fittings Ø3 and Ø4)

Please note that all Series PL 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 PL solenoid valves are available in the normally closed, normally open and universal versions. They can be mounted on single sub-bases or manifolds.

GENERAL DATA

TECHNICAL FEATURES	
Function Operation Pneumatic connections	2/2 NO - 3/2 NC - 3/2 NO - 3/2 UNI direct acting poppet type on subbase
Orifice diameter	0.8 1.6 mm
Flow coefficient kv (l/min)	0.300.62
Operating pressure	0 ÷ 3.5 … 10 bar
Operating temperature Media	0 ÷ 50 °C (FKM) / -50 ÷ 50 °C (low temperature NBR on demand)
Response time	filtered air class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas ON <10 ms - OFE <15 ms
Manual override	mono/bistable - PBT 3/2 versions only
Installation	in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body	brass - PBT - PPS
Seals	FKM - NBR - EPDM (on demand)
Internal parts	brass - stainless steel
ELECTRICAL FEATURES	
Voltage	6 110 V DC - other voltages on demand
Voltage tolerance Power consumption	±10% 1.2 3 W
Duty cycle	ED 100%
Electrical connection	industry standard connector (9.4 mm)
Protection class	IP65 with connector

Special versions available on demand

CODIN	IG F	ΧΔΜ	IDIF
		Main	

I		1		I				1			
PL	0	00	-	3	0	3	-	PL	2	3	
	SERIES										
PL											
0	1 = manifold - v	ase (M5 only) or in alves single side alves double side	terface								
00	01 = single base	or Series PD interfa									
3	3 = 3/2-way - N 5 = 3/2-way - N 4 = 3/2-way - N 6 = 3/2-way - N B = 3/2-way - N C = 3/2-way - N 7 = 3/2-way - U	r single base O O electric part revol C C electric part revol O electric part revol O IN-LINE* D IN-LINE* electric p	ved by 180° lved by 180° part revolved by	180°							
0	B = series PD int MANIFOLD PORT 2 = M5 thread - 3 = tube \emptyset 3 mn 4 = tube \emptyset 4 mn 6 = M5 thread - 7 = tube \emptyset 3 mn	n fittings - front out n fittings - front out	lets lets outlets								
3	ORIFICE DIAMET B = Ø 0.8 mm 1 = Ø 1.1 mm 3 = Ø 1.5 mm (N 5 = Ø 1.5 mm		sure 4 ÷ 8 bar or								
PL	PF = PBT body - SF = PPS body - ST = PPS body -		BR seals (on der	nand)							
2	ELECTRICAL CON 2 = industrial st	NECTION andard connection	(9.4 mm)								
3	VOLTAGE - POWE 4 = 6 V DC - 1.2 5 = 12 V DC - 1.2 6 = 24 V DC - 1.2 1 = 6 V DC - 2.7 2 = 12 V DC - 2.7 3 = 24 V DC - 2.7	: W - PA : W - PA N - PA : W - PA	OVERMOULDING I	MATERIAL		8 = 12 9 = 24 A = 6 B = 12 C = 24	V DC - 1.2 W - PP 2 V DC - 1.2 W - P 4 V DC - 1.2 W - P V DC - 2.2 W - P 2 V DC - 2.2 W - P 4 V DC - 2.2 W - P 10 V DC - 3 W - P	PS PS S PS PS	ned with all PPS n	nodels)	
	FIXING = fixing screws P = fixing screw										
		IDE d or not applicable ble (push/turn type									
	OPTIONS = standard OX1 = for use w	ith oxygen (non vol	atile residual le	ss than 550 mg/	(m²)						

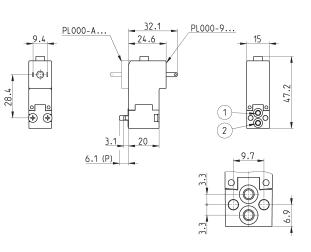
 \pm 3/2 NO IN-LINE version: the position of the ports 1 - 2 - 3 is identical to 3/2 NC version

Series PL solenoid valve - 2/2-way NO - series PD interface



Supplied with: 2x O-Rings 2x M3x20 screws for mounting on metal ٥г 2x Ø3x23 screws for mounting on plastic (opt. P)

* add - VOLTAGE - FIXING (see CODING EXAMPLE)



		2	E V 02
Г	т Т	1	w
10		1	

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)	Symbol
PL000-9B7-PF2*	2/2 NO	1.6	0.62	0 ÷ 6.5	PBT	FKM	по	2.7	EV02
PL000-9B7-BF2*	2/2 NO	1.6	0.62	0 ÷ 6.5	brass	FKM	по	2.7	EV02

Series PL solenoid valve - 3/2-way NC



Supplied with: 1x interface seal 2x M3x20 screws for mounting on metal

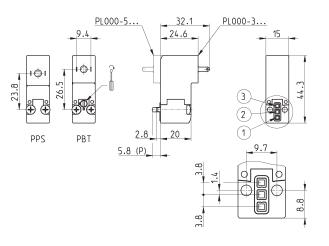
٥г 2x Ø3x23 screws for mounting on plastic (opt. P)

Also available ST models for Tamb. -50 ÷ 50 °C with NBR seals.

* add - VOLTAGE - FIXING (see CODING EXAMPLE)







Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)	Symbol
PL000-30B-PF2*	3/2 NC	0.8	0.30	0 ÷ 10	PBT	FKM	по	1.2	EV03
PL000-30B-PF2*T	3/2 NC	0.8	0.30	0 ÷ 10	PBT	FKM	mono/bistable	1.2	EV08
PL000-30B-SF2*	3/2 NC	0.8	0.30	0÷10	PPS	FKM	по	1.2	EV03
PL000-301-PF2*	3/2 NC	1.1	0.34	0 ÷ 7	PBT	FKM	по	2.7	EV03
PL000-301-PF2*T	3/2 NC	1.1	0.34	0 ÷ 7	PBT	FKM	mono/bistable	2.7	EV08
PL000-301-SF2*	3/2 NC	1.1	0.34	0 ÷ 8	PPS	FKM	по	2.2	EV03
PL000-303-PL2*	3/2 NC	1.5	0.47	4 ÷ 8	PBT	FKM+NBR	по	2.7	EV03
PL000-303-PF2*T	3/2 NC	1.5	0.47	4 ÷ 8	PBT	FKM	mono/bistable	2.7	EV08
PL000-306-PL2*	3/2 NC	1.5	0.47	0 ÷ 3.5	PBT	FKM+NBR	по	2.7	EV03
PL000-306-PF2*T	3/2 NC	1.5	0.47	0 ÷ 3.5	PBT	FKM	mono/bistable	2.7	EV08

Series PL solenoid valve - 3/2-way NO

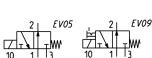
DIRECT AND INDIRECT ACTING 2/2 - 3/2 SOLENOID VALVES > SERIES PL SOLENOID VALVES



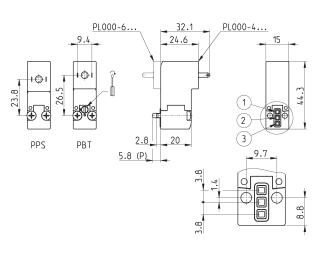
Supplied with: 1x interface seal 2x M3x20 screws for mounting on metal or 2x Ø3x23 screws for mounting on plastic

Also available ST models for T amb. -50 ÷ 50 °C with NBR seals.

* add - VOLTAGE - FIXING (see CODING EXAMPLE)



(opt. P)



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)	Symbol
PL000-40B-PF2*	3/2 NO	0.8	0.30	0 ÷ 10	PBT	FKM	по	2.7	EV05
PL000-40B-PF2*T	3/2 NO	0.8	0.30	0 ÷ 10	PBT	FKM	mono/bistable	2.7	EV09
PL000-40B-SF2*	3/2 NO	0.8	0.30	0 ÷ 10	PPS	FKM	по	2.2	EV05
PL000-401-PF2*	3/2 NO	1.1	0.34	0 ÷ 7	PBT	FKM	по	2.7	EV05
PL000-401-PF2*T	3/2 NO	1.1	0.34	0 ÷ 7	PBT	FKM	mono/bistable	2.7	EV09
PL000-401-SF2*	3/2 NO	1.1	0.34	0 ÷ 7	PPS	FKM	по	2.2	EV05
PL000-405-PF2*	3/2 NO	1.5	0.42	0 ÷ 6.5	PBT	FKM	по	2.7	EV05
PL000-405-PF2*T	3/2 NO	1.5	0.42	0 ÷ 6.5	PBT	FKM	mono/bistable	2.7	EV09
PL000-405-SF2*	3/2 NO	1.5	0.42	0 ÷ 6.5	PPS	FKM	по	2.2	EV05

Series PL solenoid valve - 3/2-way NO IN-LINE

(opt. P)



Supplied with: 1x interface seal 2x M3x20 screws for mounting on metal or 2x Ø3x23 screws for mounting on plastic

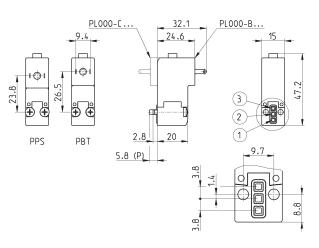
Also available ST models for T amb. -50 ÷ 50 °C with NBR seals.

E V 05

W

2

* add - VOLTAGE - FIXING (see CODING EXAMPLE)



Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)	Symbol
PL000-B01-PF2*	3/2 NO IN-LINE	1.1	0.34	0 ÷ 7	PBT	FKM	по	2.7	EV05
PL000-B01-SF2*	3/2 NO IN-LINE	1.1	0.34	0 ÷ 7	PPS	FKM	по	2.2	EV05

Series PL solenoid valve - 3/2-way UNI



Supplied with: 1x interface seal 2x M3x20 screws for mounting on metal or 2x Ø3x23 screws for mounting on plastic (opt. P)

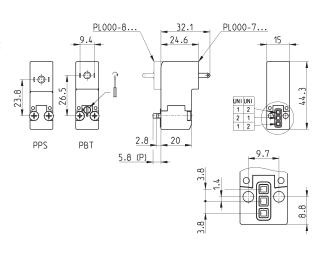
Also available models for T amb. -50 ÷ 50 °C with NBR seals

Vacuum operation with max. pressure reduction

* add - VOLTAGE - FIXING (see CODING EXAMPLE)

> 2 EV64 12(10) 1(3) 3(1)





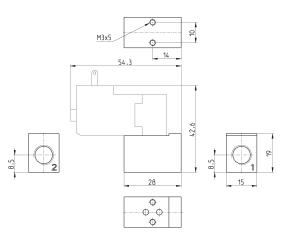
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min÷max pressure (bar)	Body material	Seals material	Manual override	Power (W)	Symbol
PL000-705-PF2*	3/2 UNI	1.5	0.42	0 ÷ 3.5 [-1 ÷ 2.5]	PBT	FKM	по	2.7	EV64
PL000-705-PF2*T	3/2 UNI	1.5	0.42	0 ÷ 3.5 [-1 ÷ 2.5]	PBT	FKM	mono/bistable	2.7	EV92
PL000-705-SF2*	3/2 UNI	1.5	0.42	0 ÷ 3.5 [-1 ÷ 2.5]	PPS	FKM	ПО	2.2	EV64

Single sub-base for 15mm size 2 way interface



Single sub-base suitable for 2-way solenoid valves Series PD and PL models PD000-2A..., PL000-9B... Use solenoid valves with fixing screws for metal (see codification page)

Material: anodized aluminium Connections: G1/8 threads



SERIES PL SOLENOID VALVES

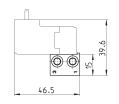
Mod. PDA01-1/8

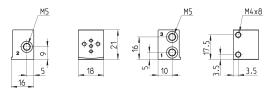
Single sub-base for 3-way solenoid valve size 15 mm



Single sub-base suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium Connections: M5 threads





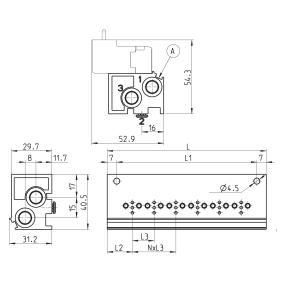
Mod. P001-02

Single manifold with rear outlets



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium



DIMENSION	٧S						
Mod.	Positions	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

* add MANIFOLD PORTS (see CODING EXAMPLE)

A = groove for identification label

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

Manifold - single side valve - frontal outlets

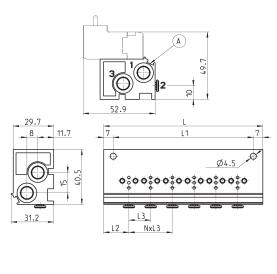


3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Manifold suitable for Series P - PL - PN - W

Can be fixed through DIN 46277/3 guide with the accessory PCF-E520.

Material: anodized aluminium



DIMENSION	٧S						
Mod.	Positions	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	61/8	G1/8

A = groove for identification label

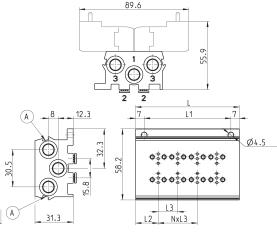
* add - MANIFOLD PORTS (see CODING EXAMPLE)

Manifold - double side valve - bottom outlets



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium



DIMENSION	۷S							31.3
Mod.	Positions	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	* add
P210-0*	10	101	87	18,5	16	G1/8	G1/8	- MANIFOLD PORTS
P212-0*	12	117	103	18,5	16	G1/8	G1/8	(see CODING EXAMPLE)

Manifold - double side valve - frontal outlets

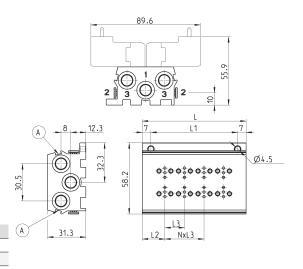


Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Can be fixed through DIN 46277/3 guide with the accessory PCF-E520.

Material: anodized aluminium

DIMENSION	15						
Mod.	Positions	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	61/8	61/8



- MANIFOLD PORTS (see CODING EXAMPLE)

* add

A = groove for identification label

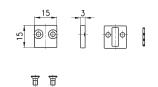
A = groove for identification label

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

Position valve cap



Supplied with: 1x position valve cap 1x interface seal 2x screws

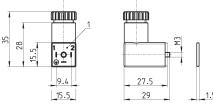


SERIES PL SOLENOID VALVES

Mod. P000-TP

Connector Mod. 125-... - industrial std. 9.4 mm



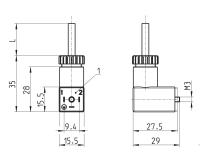


Mod.	description	colour	working voltage	cable gland	tightening torque	
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm	
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm	1 = 90° adjustable connecto
125-800	connector, without electronics	black	-	PG7	0.3 Nm	

Connector Mod. 125-... - industrial std. 9.4 mm - 90° cable

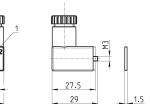


The internal rectifier circuit of the connector Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.



Mod.	description	colour	working voltage	cable length [L]	cable gland	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

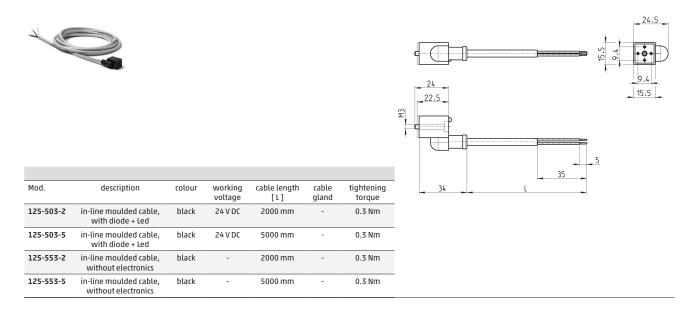
1 = 90° adjustable connector



1.5

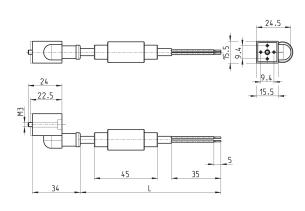


Connector Mod. 125-... - industrial std. 9.4 mm - in-line cable



Conn. Mod. 125-... - ind. std. 9.4 mm - in-line cable+rectifier





Mod.	description	colour	working voltage	cable length [L]	cable gland	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 direct acting solenoid valves

3/2-way - Normally Closed (NC)



Series PN direct acting solenoid valves are available as 3/2-way NC.

- » Can be mounted on a single base (M5 connections) or on manifold (M5 connections or fittings for Ø3 o Ø4 tube)
- » 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.

GENERAL DATA

TECHNICAL FEATURES	
Function	3/2 NC
Operation Pneumatic connections	direct acting poppet type on subbase with ISO 12238 interface
Orifice diameter	0.8 mm
Flow coefficient kv (l/min)	0.19
Operating pressure	0 ÷ 10 bar
Operating temperature	0 ÷ 50 °C
Media	filtered air class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas
Response time (ISO 12238) Installation	ON <10 ms - OFF <15 ms in any position
instattation	
MATERIALS IN CONTACT WITH THE MEDIL	м
Body	PBT
Seals	FKM - NBR
Internal parts	stainless steel
ELECTRICAL FEATURES	
Voltage	24 205 V DC - other voltages on demand ±10%
Voltage tolerance Power consumption	12W
Duty cycle	ED 100%
Electrical connection	industrial standard connector (9.4 mm)
Protection class	IP65 with connector
Special versions available on demand	

CODING EXAMPLE

PN	0	00	-	3	0	1	-	Р	5	3	
PN	SERIES	I						1	1	1	
0	BODY DESIGN 0 = single sub-ba 1 = single manifo 2 = double sided	old									
00	NUMBER OF POSI 00 = ISO 15218 ir 01 = single base 02 ÷ 99 = manifo	nterface	ons								
3	NUMBER OF WAYS 0 = manifold or s 3 = 3/2-way - NC	ingle base									
0	2 = M5 thread - fr 3 = tube Ø 3 mm 4 = tube Ø 4 mm 6 = M5 thread - b 7 = tube Ø 3 mm	for P - PL - PN - W Se ont outlets fittings - front outle fittings - front outle	ets ets tlets								
1	ORIFICE DIAMETEI 1 = Ø 0.8 mm	र									
Ρ	MATERIALS P = PBT body - sea	als FKM - NBR									
5	ELECTRICAL CONN 5 = industrial star										
3	VOLTAGE - POWER 3 = 24 V DC - 1 W 4 = 48 V DC - 2 W 6 = 110 V DC - 2 W 7 = 205 V DC - 1.7	I									
	FIXING = fixing screws M = fixing screws										

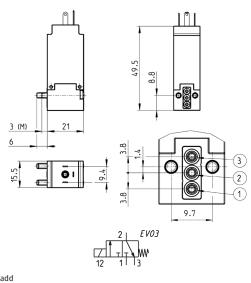
Series PN solenoid valve - 3/2-way NC

DIRECT AND INDIRECT ACTING 2/2 - 3/2 SOLENOID VALVES > SERIES PN SOLENOID VALVES



Supplied with: 1x interface seal 2x Ø3x25 screws for mounting on plastic οг

2x M3x22 screws for mounting on metal



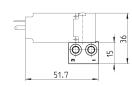
Mod.	Function	Orifice Ø (mm)	kv (l/m)	Min÷max pressure (bar)	Voltage Power
PN000-301-P53*	3/2 NC	0.8	0.19	0 ÷ 10	24 V DC 1 W
PN000-301-P54*	3/2 NC	0.8	0.19	0 ÷ 10	48 V DC 2 W
PN000-301-P56*	3/2 NC	0.8	0.19	0 ÷ 10	110 V DC 2 W
PN000-301-P57*	3/2 NC	0.8	0.19	0÷10	205 V DC 1.7 W

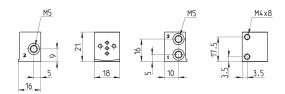
Single sub-base for 3-way solenoid valve size 15 mm



Single sub-base suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium Connections: M5 threads





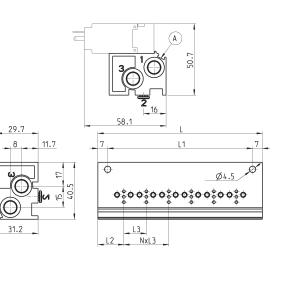
Mod. P001-02

Manifold - single side valve - bottom outlets



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium



MANIFOLD PORTS (see CODING EXAMPLE)

* add

A= groove for	identification label
---------------	----------------------

DIMENSION	45						
Mod.	Positions	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

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SERIES PN SOLENOID VALVES

1.17.03 59

Manifold - single side valve - frontal outlets

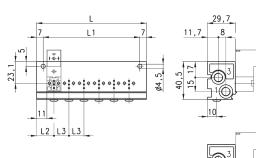


3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Manifold suitable for Series P - PL - PN - W

Can be fixed through DIN 46277/3 guide with the accessory PCF-E520.

Material: anodized aluminium



* add

- MANIFOLD PORTS (see CODING EXAMPLE)



DIMENSIONS							
Mod.	Positions	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

A= groove for identification label

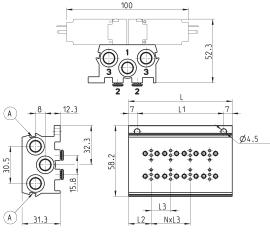
SERIES PN SOLENOID VALVES

Manifold - double side valve - bottom outlets



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Material: anodized aluminium



DIMENSION	15							(A) <u>31.3</u>
Mod.	Positions	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	* add
P210-0*	10	101	87	18,5	16	G1/8	G1/8	- MANIFOLD PORTS
P212-0*	12	117	103	18,5	16	G1/8	G1/8	(see CODING EXAMPLE)

Manifold - double side valve - frontal outlets



Manifold suitable for Series P - PL - PN - W 3-way solenoid valve Use solenoid valves with screws for mounting on metal (see coding)

Can be fixed through DIN 46277/3 guide with the accessory PCF-E520.

Material: anodized aluminium

A 8 12.3	7 L1 7
500 500 A 31.3	6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

100

* add MANIFOLD PORTS (see CODING EXAMPLE) A= groove for identification label

A= groove for identification label

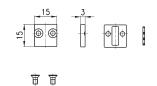
DIMENSION	NS .						
Mod.	Positions	L	L1	L2	L3	1(P)	3 (R)
P204-0*	4	53	39	18,5	16	G1/8	G1/8
P206-0*	6	69	55	18,5	16	G1/8	G1/8
P208-0*	8	85	71	18,5	16	G1/8	G1/8
P210-0*	10	101	87	18,5	16	G1/8	G1/8
P212-0*	12	117	103	18,5	16	G1/8	G1/8

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Position valve cap



Supplied with: 1x position valve cap 1x interface seal 2x screws

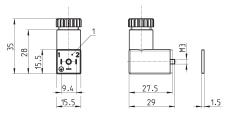


SERIES PN SOLENOID VALVES

Mod. POOO-TP

Connector Mod. 125-... - industrial std. 9.4 mm



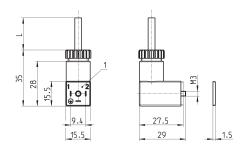


Mod.	description	colour	working voltage	cable gland	tightening torque	
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm	
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm	1 = 90° adjustable connector
125-800	connector, without electronics	black	-	PG7	0.3 Nm	

Connector Mod. 125-... - industrial std. 9.4 mm - 90° cable



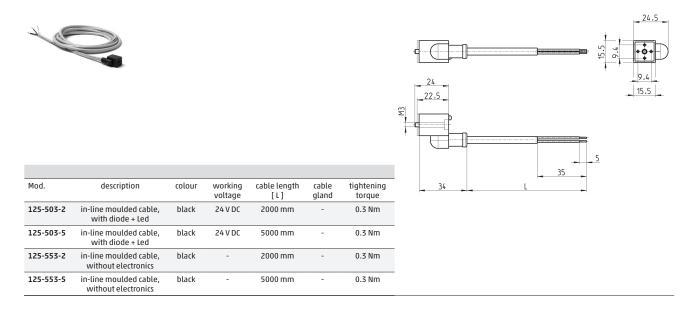
The internal rectifier circuit of the connector Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.



Mod.	description	colour	working voltage	cable length [L]	cable gland	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

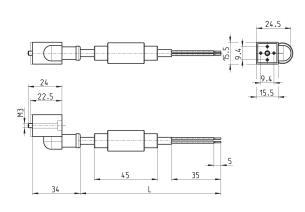
1 = 90° adjustable connector

Connector Mod. 125-... - industrial std. 9.4 mm - in-line cable



Conn. Mod. 125-... - ind. std. 9.4 mm - in-line cable+rectifier





Mod.	description	colour	working voltage	cable length [L]	cable gland	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 direct acting solenoid valves



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.

The Series PD direct acting solenoid valves are available in the 2/2-way normally closed (NC) version. Pneumatic interfaces allow installation on manifolds in horizontal or vertical position. Also available with threaded connections.

GENERAL DATA

TECHNICAL FEATURES	
Function Operation Pneumatic connections Orifice diameter Flow coefficient kv (l/min) Operating pressure Operating temperature Media Response time Installation	2/2 NC direct acting poppet type on subbase - M5 threads 0.8 2.5 mm 0.39 1.93 -0.9 ÷ 4 12 bar 0 ÷ 50 °C filtered air class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas - liquids (on demand) <15 ms in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body Seals Internal parts	brass - anodized aluminium - POM NBR - FKM - EPDM stainless steel
ELECTRICAL FEATURES	

Voltage	12 24 V DC - other voltages on demand
Voltage tolerance	1 and 2 W ±10% - 4 W ±5%
Power consumption	1 4 W
Duty cycle	ED 100% (1 and 2 W) - ED 50% (4W) see the ED definition diagram
Electrical connection	industrial standard connector (9.4 mm)
Protection class	IP65 with connector

Special versions available on demand

New models

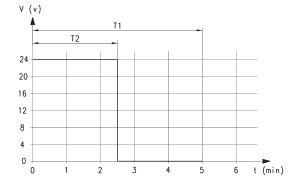
CODING EXAMPLE

					-				_		
PD	0	00	-	2	A	1	-	R	5	3	
PD	SERIES										
0	BODY DESIGN 0 = single body										
00	NUMBER OF POSIT 00 = interface	TIONS									
2	NUMBER OF WAYS 2 = 2/2-way - NC	- FUNCTIONS									
A	AR = aluminium b C = aluminium b CR = aluminium b DF = POM body - b DR = POM body - E = brass body - M	ody - lateral interfac oody - lateral interfa ody - bottom interfa oody - bottom interfa	ace - electric pa ice face - electric pa electric part rev	art revolved by olved by 180°	180°						
1	ORIFICE DIAMETEF 1 = Ø 0.8 mm 2 = Ø 1.2 mm 3 = Ø 1.6 mm 4 = Ø 2.0 mm 5 = Ø 2.5 mm	ł									
R	SEAL MATERIAL R = NBR F = FKM E = EPDM										
5	ELECTRICAL CONN 5 = industrial star										
3	VOLTAGE - POWER 1 = 12 V DC - 1 W 2 = 12 V DC - 2 W 3 = 24 V DC - 1 W 5 = 24 V DC - 2 W 8 = 24 V DC - 2 W	CONSUMPTION									
	FIXING = with screws for P = with screws for										
		h oxygen (non vola h oxygen (non vola									

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



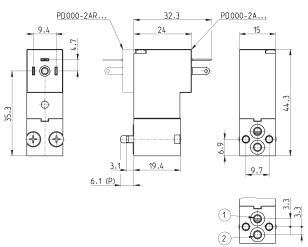
Series PD solenoid valve - aluminium body - lateral interface



Supplied with: 2x O-Rings 2x M3x20 screws for mounting on metal or 2x Ø3x23 screws for mounting on

For vacuum applications connect the suction source to port 2

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





plastic

Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Power (W)	ED (%)
PD000-2A1-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2AR1-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2A2-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2AR2-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2A3-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100
PD000-2AR3-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100
PD000-2A4-*5*	2/2 NC	2.0	1.31	0 ÷ 6	4	50
PD000-2AR4-*5*	2/2 NC	2.0	1.31	0 ÷ 6	4	50
PD000-2A5-*5*	2/2 NC	2.5	1.93	0 ÷ 4	4	50
PD000-2AR5-*5*	2/2 NC	2.5	1.93	0 ÷ 4	4	50

Series PD solenoid valve - aluminium body - bottom interface

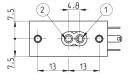
EVOI

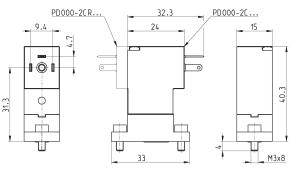


Supplied with: 1x interface seal 2x M3x8 screws for mounting on metal

For vacuum applications connect the suction source to port 2

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





Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Power (W)	ED (%)
PD000-2C1-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2CR1-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2C2-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2CR2-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2C3-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100
PD000-2CR3-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100
PD000-2C4-*5*	2/2 NC	2.0	1.31	0 ÷ 6	4	50
PD000-2CR4-*5*	2/2 NC	2.0	1.31	0 ÷ 6	4	50
PD000-2C5-*5*	2/2 NC	2.5	1.93	0 ÷ 4	4	50
PD000-2CR5-*5*	2/2 NC	2.5	1.93	0 ÷ 4	4	50

2

New

Series PD solenoid valve - POM body - bottom interface

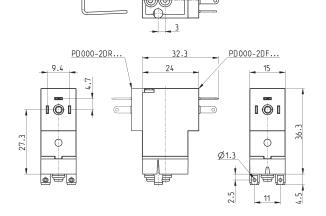
2 EV01



Supplied with: 2x O-Rings 1x mounting clip

For vacuum applications connect the suction source to port 2

* add - VOLTAGE (see CODING EXAMPLE)



1

6



Mod.	Function	Orifice	kv	Min ÷ max	Power	ED
		Ø (mm)	(l/min)	pressure (bar)	(W)	(%)
PD000-2DF3-E5*	2/2 NC	1.6	0.72	0 ÷ 6	2	100
PD000-2DR3-E5*	2/2 NC	1.6	0.72	0 ÷ 6	2	100

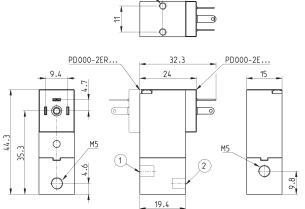
Series PD solenoid valve - brass body - M5 threaded ports

EV01



For vacuum applications connect the suction source to port 2

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



M3x6

9.7

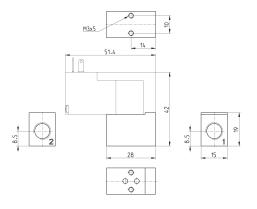
Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Power (W)	ED (%)
PD000-2E1-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2E1R-*5*	2/2 NC	0.8	0.39	0 ÷ 12	1	100
PD000-2E2-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2E2R-*5*	2/2 NC	1.2	0.54	0 ÷ 12	2	100
PD000-2E3-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100
PD000-2E3R-*5*	2/2 NC	1.6	0.70	0 ÷ 7	2	100

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Single sub-base for Series PD lateral interface

Single sub-base suitable for 2-way solenoid valves Series PD and PL models PD000-2A..., PL000-9B... Use solenoid valves with fixing screws for metal (see codification page)

Material: anodized aluminium Connections: G1/8 threads



Mod. PDA01-1/8

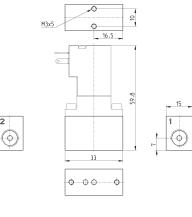
SERIES PD SOLENOID VALVES

Single sub-base for Series PD bottom interface



Single sub-base suitable for Series PD 2-way solenoid valve models PD000-2C... and PD000-2CR...

Material: anodized aluminium Connections: G1/8 threads



19.5

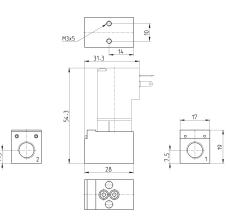
Mod. PDC01-1/8

Single sub-base for Series PD bottom interface



Single sub-base suitable for Series PD 2-way solenoid valve models PD000-2DF... and PD000-2DR...

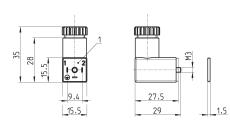
Material: anodized aluminium Connections: G1/8 threads



Mod. PDD01-1/8

Connector Mod. 125-... - industrial std. 9.4 mm



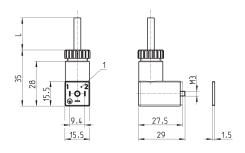


Mod.	description	colour	working voltage	cable gland	tightening torque	
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm	
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm	1 = 90° adjustable connecto
125-800	connector, without electronics	black	-	PG7	0.3 Nm	

Connector Mod. 125-... - industrial std. 9.4 mm - 90° cable

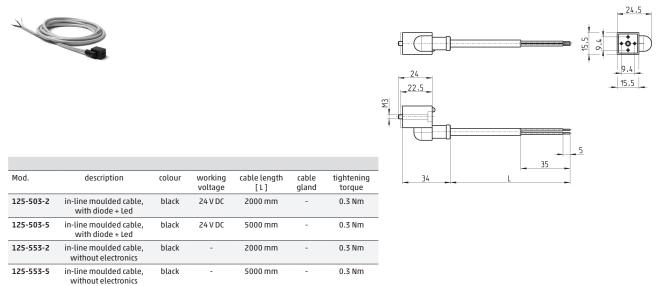


The internal rectifier circuit of the connector Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.



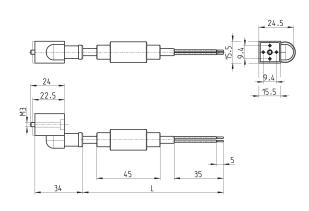
Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque	
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm	
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm	
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000 mm	PG7	0.3 Nm	1 = 90° adiustable connector
125-571-3	moulded cable, varistor + Led	black	24 V AC/DC	3000 mm	-	0.3 Nm	
125-900	pre-wired cable with voltage rectifier	black	6 V - 110 V AC/DC	2000 mm	PG7	0.3 Nm	

Connector Mod. 125-... - industrial std. 9.4 mm - in-line cable



Conn. Mod. 125-... - ind. std. 9.4 mm - in-line cable+rectifier





Mod.	description	colour	working voltage	cable length [L]	cable gland	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 media separated solenoid valves

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 with the available materials of body and seals.

Series PDV direct acting 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	2/2 NC
Operation	direct acting with fluid separation membrane
Pneumatic connections	on subbase
Orifice diameter	0.8 2 mm
Flow coefficient kv (l/min)	0.25 0.8
Operating pressure	0 7 bar
Operating temperature	10 ÷ 50 °C (FKM/EPDM) / 20 ÷ 50 °C (FFKM)
Media	inert or corrosive liquids and gases compatible with the materials in contact
Response time	≤ 15 ms
Installation	in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body	PEEK
Seals	FKM - EPDM - FFKM
ELECTRICAL FEATURES	
Voltage	6 24 V DC - other voltages on demand
Voltage tolerance	±10%
Power consumption	2 W
Duty cycle	ED 100%
Electrical connection	industrial standard (9.4 mm), DIN EN 175 301-803-C (8 mm), 300 mm flying leads
Protection class	IP65 with connector

Special versions available on request

CODING EXAMPLE

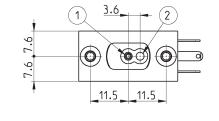
PDV	CO 1 22 - B7 3 G N - M 00 4A CO23
PDV	SERIES
CO	BODY DESIGN C0 = body with interface for subbase
1	NUMBER OF WAYS - FUNCTIONS 1 = 2/2-way - NC
22	PNEUMATIC CONNECTIONS 22 = PDV-type interface, 2-way
B7	ORIFICE DIAMETER A7 = Ø 0.8 mm B3 = Ø 1.2 mm B7 = Ø 1.6 mm C1 = Ø 2.0 mm
3	SEAL MATERIAL 3 = FKM 4 = EPDM 5 = FFKM
G	BODY MATERIAL G = PEEK
Ν	MANUAL OVERRIDE N = not foreseen
Μ	FIXING M = fixing screws for metal
00	OPTIONS 00 = none
4 A	ELECTRICAL CONNECTION3A = DIN EN 175 301-803-C (8 mm)3A = DIN EN 175 301-803-C (8 mm) with coil rotated 180°4A = industrial standard (9.4 mm)4C = industrial standard (9.4 mm) with coil rotated 180°7A = 300 mm flying leads7C = 300 mm flying leads
C023	VOLTAGE - POWER CONSUMPTION C017 = 6 V DC - 2 W C020 = 12 V DC - 2 W C023 = 24 V DC - 2 W
	OPTIONS = standard OX2 = for oxygen (non-volatile residue less than 33 mg / m2)

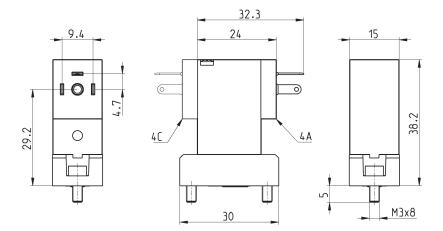


Supplied with: 1x interface seal 2x M3x8 screws for mounting on metal * add - ELECTRICAL CONNECTION - VOLTAGE (see CODING EXAMPLE)



1 = inlet 2 = outlet





Mod.	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Maximum 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-A75GN-M00*	0.8	0.25	0 ÷ 3.0	0.6	PEEK	FFKM
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-B35GN-M00*	1.2	0.55	0 ÷ 2.5	0.8	PEEK	FFKM
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-B75GN-M00*	1.6	0.65	0 ÷ 1.8	0.8	PEEK	FFKM
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
PDVC0122-C15GN-M00*	2.0	0.80	0÷1.2	0.8	PEEK	FFKM



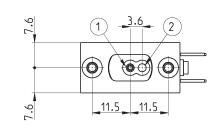
Series PDV solenoid valve - 2/2-way NC - DIN EN 175 301-803-C (8 mm)

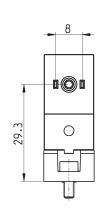


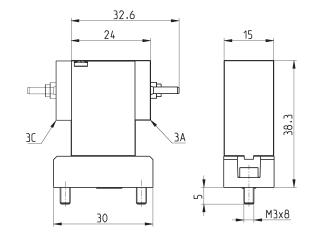
Supplied with: 1x interface seal 2x M3x8 screws for mounting on metal * add - ELECTRICAL CONNECTION - VOLTAGE (see CODING EXAMPLE)



1 = inlet 2 = outlet







Mod.	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Maximum 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-A75GN-M00*	0.8	0.25	0 ÷ 3.0	0.6	PEEK	FFKM
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-B35GN-M00*	1.2	0.55	0 ÷ 2.5	0.8	PEEK	FFKM
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-B75GN-M00*	1.6	0.65	0 ÷ 1.8	0.8	PEEK	FFKM
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
PDVC0122-C15GN-M00*	2.0	0.80	0÷1.2	0.8	PEEK	FFKM

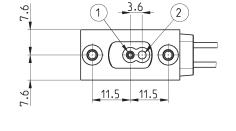
Series PDV solenoid valve - 2/2-way NC - 300 mm flying leads

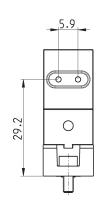


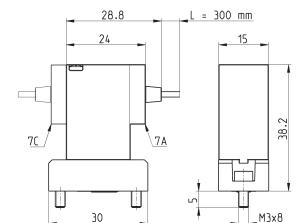
Supplied with: 1x interface seal 2x M3x8 screws for mounting on metal * add - ELECTRICAL CONNECTION - VOLTAGE (see CODING EXAMPLE)



1 = inlet 2 = outlet





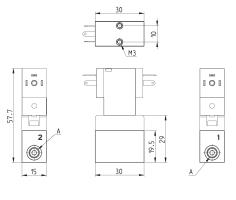


Mod.	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Maximum back pressure (bar)	Body material	Seal material
PDVC0122-A73GN-M00*	0.8	0.25	0 ÷ 7.0	1.2	PEEK	FKM
PDVC0122-A74GN-M00*	0.8	0.25	0 ÷ 7.0	1.2	PEEK	EPDM
PDVC0122-A75GN-M00*	0.8	0.25	0 ÷ 3.0	0.6	PEEK	FFKM
PDVC0122-B33GN-M00*	1.2	0.55	0 ÷ 4.5	1.2	PEEK	FKM
PDVC0122-B34GN-M00*	1.2	0.55	0 ÷ 4.5	1.2	PEEK	EPDM
PDVC0122-B35GN-M00*	1.2	0.55	0 ÷ 2.5	0.8	PEEK	FFKM
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-B75GN-M00*	1.6	0.65	0÷1.8	0.8	PEEK	FFKM
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
PDVC0122-C15GN-M00*	2.0	0.80	0÷1.2	0.8	PEEK	FFKM

Single subbase for Series PDV solenoid valve



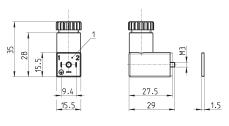
Material: PEEK Connections: M5 or 1/4-28 UNF threads



Mod.	Thread A	
PDV001-1/4	1/4 - 28 UNF	
PDV001-M5	М5	

Connector Mod. 125-... - industrial std. 9.4 mm



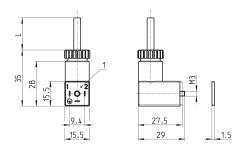


Mod.	description	colour	working voltage	cable gland	tightening torque	
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm	
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm	1 = 90° adjustable conn
125-800	connector, without electronics	black	-	PG7	0.3 Nm	

Connector Mod. 125-... - industrial std. 9.4 mm - 90° 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.



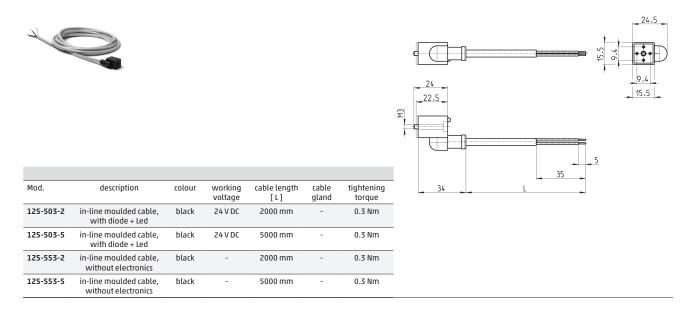
Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000 mm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

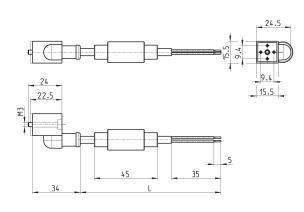


Connector Mod. 125-... - industrial std. 9.4 mm - in-line cable



Conn. Mod. 125-... - ind. std. 9.4 mm - in-line cable+rectifier





Mod.	description	colour	working voltage	cable length [L]	cable gland	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

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

							35 15.5 15.5 15.5 15.5 15.5	
Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque	8	<u>27.5</u>
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	

New models

Series A direct acting 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 direct acting 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

2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO direct acting poppet type M5, G1/8, R1/8 threads - Ø4 fittings - CNOMO and manifold interface- Ø6 barb fittings 1.2 2.5 mm 0.62 2.0 -0.9 15 bar 0 ÷ 60 °C (-20 °C with dry air) filtered air class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas ON <15 ms - OFF <25 ms see tables in any position
nickel-plated brass - burnished brass - PA6 - PBT HNBR, FKM stainless steel
12 110 V DC - 24 380 V AC 50/60 Hz ±10% (DC) / -15% ÷ +10% (AC) 3 5 W (DC) / 3.5 7 VA (AC) ED 100% F (155°C) DIN EN 175 301-803-A - DIN EN 175 301-803-B IP65 with connector

Special versions available on demand

SERIES A SOLENOID VALVES

CODING EXAMPLE

A	3	3	1	-	0	C	2	-	U7	7
					1					
Α	SERIES									
3	2 = fixed inte 3 = threaded 4 = threaded 5 = ISO interf 6 = 360° rota 7 = 360° rota	table interface body rface body (24x2e) body body with quick effect ace body table interface body table interface body anifold anifold anifold anifold anifold anifold anifold anifold anifold anifold anifold anifold anifold anifold anifold anifold ananifold ananifold ananifold ananifold ananifold ananifold ananifold ananifold ananifold ananifold ananifold	4 mm) exhaust idy (16x16 mm) idy (21 mm)							
3	NUMBER OF F 2 = 2 ways 3 = 3 ways	PORTS								
1	FUNCTION 1 = NC - norm 2 = NO - norm 3 = NO IN-LIN		n							
0	A = O-Rings r									
C	ORIFICE DIAM C = Ø 1.2 - 1.4 D = Ø 2.0 mm E = Ø 2.5 mm	4 - 1.5 mm า								
2			hed brass - alumini	um						
U7	U7 = PET / 22 G7 = PA66 / 2 G9 = PA66 / 2 A8 = PPS / 30	2 mm 2 mm - solenoid f 1 mm	TERIAL / SIZE vailable in standard for bistable functior ds ATEX version for Z	ı (not available f						
7		WER CONSUMPTIO g page for U7 / G7	N ' solenoids and ded	icated section 2.	35					

 \pm 3/2 NO IN-LINE version: port position 1 - 2 - 3 are identical to port positions of 3/2 NC versions

PRESSURE RANGES AND SOLENOIDS - VALVES BODY MATCHING TABLE

For vacuum applications: 2/2-way function connect the suction source to port 2 3/2-way function connect the suction source to port 1

Mod.	Min ÷ max working pressure (bar) allowed with solenoids DC >3 W	with solenoids DC >4 W	with solenoids AC >3.5 VA
unching 2/2 NC			
Function 2/2 NC	-	-	-
321-0C2-*	-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
4821-FE3-*	-0.9 ÷ 1	-0.9 ÷ 6	-0.9 ÷ 6
· · · · · · · · · · · · · · · · · · · ·	-	-	-
Function 2/2 NO	-	-	-
A322-0C2-*	2÷10	-0.9 ÷ 10	-0.9 ÷ 10
4322-1C2-*	2÷10	-0.9 ÷ 10	-0.9 ÷ 10
	-	-	•
Function 3/2 NC	-	-	-
A131-AC2-*	-	-	•
A231-BC2-*	-	-	-
A331-0C2-*	2÷10	-0.9 ÷ 10	-0.9 ÷ 10
4331-1C2-*	2÷10	-0.9 ÷ 10	-0.9 ÷ 10
331-1D2-*	-	-0,9 ÷ 6	-0.9 ÷ 6
\331-1E2-*	-	-0.9 ÷ 4	-0.9 ÷ 4
331-3C2-*	2÷10	-0.9 ÷ 10	-0.9 ÷ 10
\331-4C2-*	2÷10	-0.9 ÷ 10	-0.9 ÷ 10
4431-1C2-*	2÷10	2÷10	2 ÷ 10
\531-BC2-*	2÷10	-0.9 ÷ 10	-0.9 ÷ 10
A631-AC2-*	2÷10	-0.9 ÷ 10	-0.9 ÷ 10
A731-AC2-*	2÷10	-0,9 ÷ 10	-0,9 ÷ 10
\831-FE3-*	-	-0.9 ÷ 4	-0.9 ÷ 4
A31-0C2-*	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
A31-CC3-*	2 ÷ 8	-0.9 ÷ 8	-0.9 ÷ 8
	-	-	-
Function 3/2 NO	-	-	
4332-0C2-*	-0.9 ÷ 7	-0.9 ÷ 7	-0.9 ÷ 7
4332-102-*	-0.9 ÷ 7		
		-0.9 ÷ 7	-0.9 ÷ 7
AA32-0C2-*	-0.9 ÷ 7	-0.9 ÷ 7	-0.9 ÷ 7
AA32-0C3-*	-0.9 ÷ 7	-0.9 ÷ 7	-0.9 ÷ 7
AA32-CC2-*	-0.9 ÷ 7	-0.9 ÷ 7	-0.9 ÷ 7
AA32-CC3-*	-0.9 ÷ 7	-0.9 ÷ 7	-0.9 ÷ 7
	-	-	-
Function 3/2 NO IN-LINE	-	-	-
A333-0C2-*	-0.9 ÷ 6	-	-0.9 ÷ 9
\333-1C2-*	-0.9 ÷ 6	-	-0.9 ÷ 9
AA33-0C2-*	-0.9 ÷ 6	-	-0.9 ÷ 9
AA33-0C3-*	-0.9 ÷ 6	-	-0.9 ÷ 8
A33-CC2-*	-0.9 ÷ 6	-	-0.9 ÷ 9
A33-CC3-*	-0.9 ÷ 6	-	-0.9 ÷ 8
	-	-	-
Solenoids for functions 2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO	-	-	-
L2 V DC - 3.1 W	G7H - U7H - U7HEX	-	-
24 V DC - 3.1 W	G77 - U77 - U77EX	-	
48 V DC - 3.1 W	G79 - U79 - U79EX	-	-
10 V DC - 3.2 W	G710 - U710 - U710EX	-	-
5 V DC - 5.1 W	-	U71 - U71EX	-
2 V DC - 5 W	-	G72 - U72 - U72EX	-
24 V DC - 5 W		G73 - U73 - U73EX	
	-		
8 V DC - 5.3 W	-	U74 - U74EX	-
22 V DC - 4.8 W		G7K - U7K - U7KEX	
L10 V DC - 4.2 W		G76 - U76 - U76EX	-
48 V 50/60 Hz - 3.8 VA	-	-	G77 - U77 - U77EX
110 V 50/60 Hz - 3.8 VA	-	-	G7K - U7K - U7KEX
L25 V 50/60 Hz - 5.5 VA	-	-	G7K - U7K - U7KEX
230 V 50/60 Hz - 3.5 VA	-	-	G7J - U7J - U7JEX
240 V 50/60 Hz - 4 VA	-	-	G7J - U7J - U7JEX
	-	-	-

1.20.03

M4x5.5

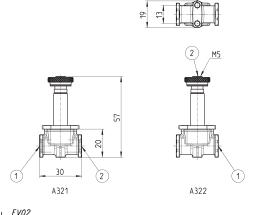
SERIES A SOLENOID VALVES

Series A solenoid valve - 2/2-way - Mod. A32

Available in the 2/2-way version NC (normally closed), NO (normally open). In the 2/2-way NO version the M5 threaded output port 2 is located on the upper side of the coil.



* choose the most suitable solenoid.





			0.10	1 44 1 3	2.1		
Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
A321-0C2-*	2/2 NC	M5	1.5	0.77	nickel plated brass	по	EV01
A321-1C2-*	2/2 NC	G1/8	1.5	0.85	nickel plated brass	по	EV01
A321-1D2-*	2/2 NC	G1/8	2.0	1.55	nickel plated brass	ПО	EV01
A321-1E2-*	2/2 NC	G1/8	2.5	2.00	nickel plated brass	по	EV01
A322-0C2-*	2/2 NO	M5	1.8	1.08	nickel plated brass	ПО	EV02
A322-1C2-*	2/2 NO	G1/8	1.8	1.24	nickel plated brass	no	EV02

The 3/2-way NC and NO IN-LINE versions have inlet, outlet and exhaust ports in the same position. In the 3/2-way NO version, the M5 threaded inlet port 1, is located on the upper side of the coil.

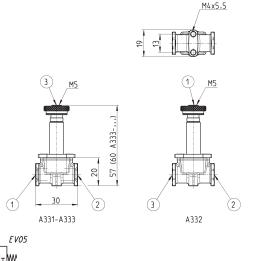
Series A solenoid valve - 3/2-way - Mod. A33

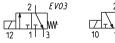


* choose the most suitable solenoid.

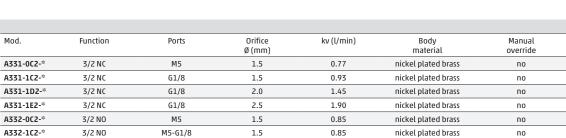
Mod.

A333-0C2-*





M5



1.5

0.93

nickel plated brass

3/2 NO IN-LINE

Symbol

EV03

EV03

EV03

EV03

EV05

EV05

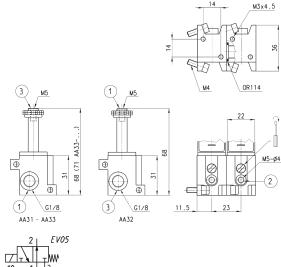
EV05

по

Series A solenoid valve - 3/2-way - Mod. AA3 - modular brass body



* choose the most suitable solenoid.



3/2-way NC and NO IN-LINE versions with G1/8 common inlet port located on the valve body. 3/2-way NO versions with M5 single inlets located on the upper side of the coil.

E V 08

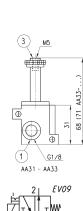
Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
AA31-0C2-*	3/2 NC	G1/8-M5	1.5	0.85	nickel plated brass	bistable	EV08
AA31-CC2-*	3/2 NC	G1/8-Ø4	1.5	0.85	nickel plated brass	bistable	EV08
AA32-0C2-*	3/2 NO	M5-M5	1.4	0.75	nickel plated brass	bistable	EV05
AA32-CC2-*	3/2 NO	M5-Ø4	1.4	0.75	nickel plated brass	bistable	EV05
AA33-0C2-*	3/2 NO IN-LINE	G1/8-M5	1.5	1.00	nickel plated brass	ПО	EV05
AA33-CC2-*	3/2 NO IN-LINE	G1/8-Ø4	1.5	1.00	nickel plated brass	по	EV05

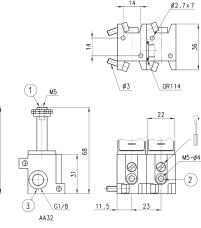
Series A solenoid valve - 3/2-way - Mod. AA3 - modular technopolymer body



* choose the most suitable solenoid.

3/2-way NC and NO IN-LINE versions with G1/8 common inlet port located on the valve body. 3/2-way NO versions with M5 single inlets located on the upper side of the coil.





Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
AA31-0C3-*	3/2 NC	G1/8-M5	1.5	0.85	PA6	bistable	EV08
AA31-CC3-*	3/2 NC	G1/8-Ø4	1.5	0.85	PA6	bistable	EV08
AA32-0C3-*	3/2 NO	M5-M5	1.4	0.75	PA6	bistable	EV05
AA32-CC3-*	3/2 NO	M5-Ø4	1.4	0.75	PA6	bistable	EV05
AA33-0C3-*	3/2 NO IN-LINE	G1/8-M5	1.5	1.00	PA6	ПО	EV05
AA33-CC3-*	3/2 NO IN-LINE	G1/8-Ø4	1.5	1.00	PA6	по	EV05

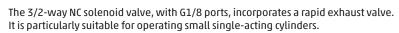


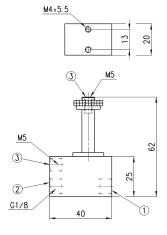
Series A solenid valve - 3/2-way NC - Mod. A43 - quick exhaust

EV07



* choose the most suitable solenoid.





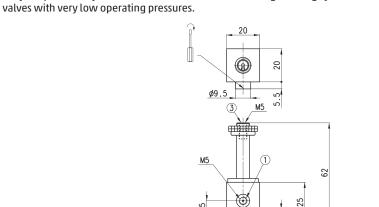
Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
A431-1C2-*	3/2 NC	G1/8	1.5	0.77	aluminium	ПО	EV07

Series A solenoid valve - 3/2-way NC - Mod. A33



M5 thread inlet R1/8 thread outlet The valve can be screwed directly onto the component to be operated.

* choose the most suitable solenoid.



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R1<u>/8</u>

They are particularly suitable for the actuation of small single-acting cylinders and the operation of pneumatic

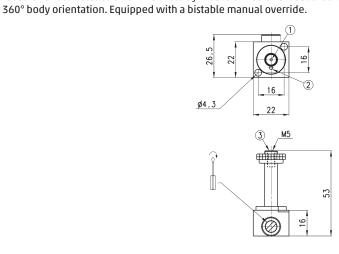


Mod.	Function	Ports	Orifice	kv (l/min)	Body	Manual	Symbol
			Ø (mm)		material	override	
A331-3C2-*	3/2 NC	M5-R1/8	1.5	0.85	nickel plated brass	по	EV03
A331-4C2-*	3/2 NC	M5-R1/8	1.5	0.85	nickel plated brass	yes	EV08

Series A solenoid valve - 3/2-way NC - Mod. A63 - rotatable interface



* choose the most suitable solenoid.



Ideal for direct installation on manifold by means of 2 screws. Seal ensured by 2 concentric O-Rings that allow

Mod.	Function	Interface	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
A631-AC2-*	3/2 NC	OR rotatable	1.2	0.62	burnished brass	bistable	EV08

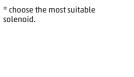
Series A solenoid valve - 3/2-way NC - Mod. A53 - fixed interface

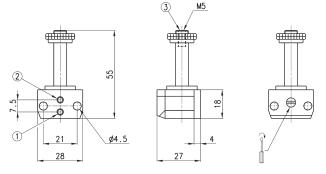
E V 08



technopolymer.

Equipped with a bistable manual override, 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.







	Eventing later from Orifing		((mm) lu()/min) Dadu				override Symbol
Mod.	Function Interface Orifice		Ø (mm) kv (l/min) Body		materialManual		override Symbol
A531-BC2-	-* 3/2 NC OR fixed	1.2	0.62	PA6		bistable	EV08

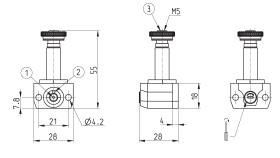
Series A solenoid valve - 3/2-way NC - Mod. A73 - rotatable interface



Ideal for direct installation on manifold by means of 2 screws. Seal ensured by 2 concentric O-Rings that allow 360° body orientation. Equipped with a bistable manual override.



* choose the most suitable solenoid.





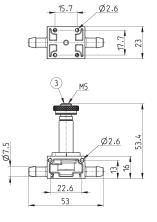
Mod.	Function	Interface	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
A731-AC2-*	3/2 NC	OR rotatable	1.2	0.62	PA6	bistable	EV08

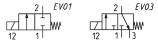
Solenoid valve with technopolymer body and integrated barb fittings for quick connections.

Series A solenoid valve - 2/2 e 3/2-way NC - Mod. A82 e A83 - barb fittings



* Choose the most suitable solenoid. ** The performances shown in the table refer to the use with inlet from "2" and outlet from "1".





Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
A821-FE3-*	2/2 NC	barb fittings Ø6	2.5	2.0	PBT	по	EV01
A831-FE3-*	3/2 NC **	barb fittings Ø6	2.5	1.8	PBT	по	EV03

New

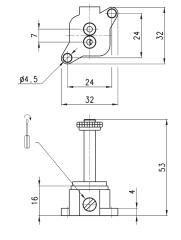
New

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

Equipped with a bistable manual override. Ideal for direct installation on manifold by means of 2 screws.



* choose the most suitable solenoid.



Mod.	Function Interface Orifice		Ø (mm) kv (l/min)Body	material Manual		override Symbol
A231-BC2-*	3/2 NC OR fixed	1.5	1.1	nichel plated brass	bistable	EV08

Series A solenoid valve - 3/2-way - Mod. A231 - rotatable interface

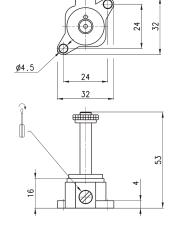
EV08

E V 08



* choose the most suitable solenoid.

Equipped with a bistable manual override. Ideal for direct installation on manifold by means of 2 screws. Seal ensured by 2 concentric O-Rings that allow 360° body orientation.



Mod.	Function	Interface	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
A131-AC2-*	3/2 NC	OR rotatable	1.5	1.1	nichel plated brass	bistable	EV08

Series 6 direct acting 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 direct acting solenoid valves can be used either with or without lubrication.

GENERAL DATA

TECHNICAL FEATURES	
Function Operation Pneumatic connections Orifice diameter Flow coefficient kv (l/min) Operating pressure Operating temperature Media Response time Manual override Installation	2/2 NC - 3/2 NC - 3/2 NO direct acting poppet type G1/8, G3/8 threads - ø4 fitting - CNOMO interface 2 4 mm 1.2 5.4 0 ÷ 4 15 bar 0 ÷ 60 °C (FKM seals) / -50 ÷ 50 °C (NBR seals) filtered air class [5:4:4] [[5:1:4] for versions -50°C) according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas ON <15 ms - OFF <15 ms see tables in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body Seals Internal parts	nickel-plated brass - anodized aluminium FKM (NBR for versions -50 °C) stainless steel
ELECTRICAL FEATURES	
Voltage Voltage tolerance Power consumption Duty cycle Insulation class Electrical connection Protection class	12 110 V DC - 24 230 V AC 50/60 Hz ±10% (DC) - +10% ÷ -15% (AC) 10 W (DC) - 19 VA (inrush AC), 12 VA (holding AC) ED 100% H (180°C) connector DIN EN 175 301-803-A IP65 with connector
Special versions available on demand	

CODING EXAMPLE

6	3	8	Μ	-	105	-	Α	6	В	
6	SERIES									
3	NUMBER OF POF 0 = interface 2 = 2/2-way - N 3 = 3/2-way - N 4 = 3/2-way - N		ONS							
8	CONNECTION 0 = interface 3 = G3/8 8 = G1/8 C = cartridge Ø 4	4								
Μ	M = manifold									
105	15E = threaded 15F = threaded 15G = threaded 450 = rotatable	body G3/8 - ori body G3/8 - ori body G3/8 - ori interface body anifold - 2 pieces - 4 pieces - 4 pieces - 5 pieces - 7 pieces - 8 pieces - 9 pieces - 10 pieces - 12 pieces - 13 pieces - 14 pieces - 14 pieces - 14 pieces - 12 pieces - 14 pieces - 14 pieces	ifice Ø 2.5 mm ifice Ø 3 mm ifice Ø 4 mm - Ø 2 mm orifice - Ø 2.5 mm orifice	e						
Α	COIL MATERIAL: A = PPS									
6	SOLENOID DIME 6 = 32x32	NSIONS								
В	VOLTAGE - POWI B = 24 V 50/60 H C = 48 V 50/60 H D = 110 V 50/60 E = 230 V 50/60 2 = 12 V DC - 10 3 = 24 V DC - 10 5 = 72 V DC - 10 6 = 110 V DC - 1 8 = 160 V DC - 10	Hz - 12 VA Hz - 12 VA) Hz - 12 VA Hz - 12 VA W W W W W W W 0 W	N							
	VERSIONS = standard LT = for low terr	nperatures								



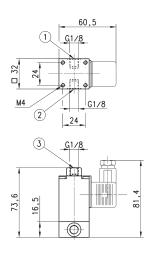
Series 6 solenoid valve - 2/2 and 3/2-way NC - Mod. 628 - 638 - 648

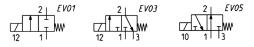
These valves are particularly suitable for operating single-acting cylinders or for use as signal valves.



In the mod. 648-150-A6* (NO) connections 1 and 3 are inverted.

* add - VOLTAGE (see CODING EXAMPLE)





Mod.	Ports	Function	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)	Symbol
628-150-A6*	G1/8	2/2 NC	2	2.0	130	0 ÷ 10 [DC] - 0 ÷ 7 [AC]	EV01
638-150-A6*	G1/8	3/2 NC	2	2.0	130	0 ÷ 10 [DC]	EV03
648-150-A6*	G1/8	3/2 NO	2	1.2	80	0 ÷ 8 [DC] - 0 ÷ 6 [AC]	EV05

outlets or with a diameter 4 cartridge. The body is supplied complete with screws and O-ring.

Series 6 solenoid valve - 3/2-way NC - Mod. 638M - 63CM



* add - VOLTAGE (see CODING EXAMPLE)

OR114 Μ4 33 67,5 46,5 <u>G1/8</u> 3 24 ΠĴ) 4 22,5 79,6 87, (\bigcirc) • G1/8 6 (2) <u>G1/8</u> FITTING Ø4)3,5

These solenoid valves are equipped with a manual override and are available with G1/8 inlet ports and with G1/8

	2	E V 08
÷۳		
12	1	3

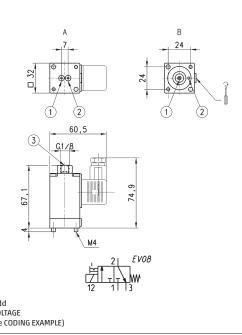
Mod.	Inlet	Outlet	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)
638M-101-A6*	G1/8	G1/8	2	1.8	120	0÷10
63CM-101-A6*	G1/8	cartridge Ø 4	2	1.6	108	0 ÷ 10

Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com SERIES 6 SOLENOID VALVES

Series 6 solenoid valve - 3/2-way NC - Mod. 600

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

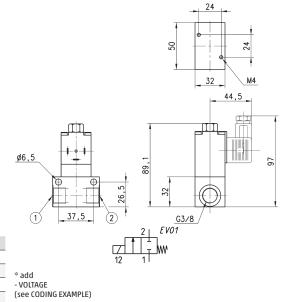
B = rotatable interface



Mod.	Interface	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Pressure min-max (bar)	
600-450-A6*	rotatable	2	1.6	106	0 ÷ 10	* add
600-45E-A6*	rotatable	2.5	2.0	130	0 ÷ 8	- VOL
600-457-A6*	fixed	2	1.6	106	0÷10	(see (

Series 6 solenoid valve - 2/2-way NC - Mod. 623





Mod.	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min-max pressure (bar)	-
623-15E-A6*	2.5	3.4	220	0 ÷ 12 [AC 50Hz] - 0 ÷ 15 [DC]	
623-15F-A6*	3	4.5	290	0 ÷ 10 [AC 50Hz] - 0 ÷ 14 [DC]	
623-15G-A6*	4	5.4	350	0 ÷ 4 [AC 50Hz] - 0 ÷ 7 [DC]	(

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

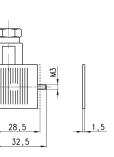


Protection class IP65

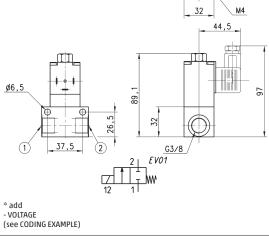
I 50~ 41 27,5 18 0 Iſ 18

27,5

PG11



Mod.	description	colour	working voltage	cable gland	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



» Solenoid valves for



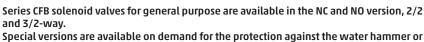
D VALVES > SERIES CFB SOLEI

Series CFB solenoid valves

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

- air and water Great reliability over
 time, even in heavy
 working conditions
 - 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.



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

GENERAL DATA

TECHNICAL FEATURES	
Function Operation Pneumatic connections Orifice diameter Flow coefficient Kv (m ³ /h) Operating pressure Operating temperature Media Response time Installation	2/2 NC - 2/2 NO - 3/2 NC direct acting poppet type - servo-assisted with diaphragm G1/8 G2 threads 1.4 50 mm 0.14 45 0 ÷ 0.8 22 bar -10 ÷ 90 140 °C air, water, liquid and gaseous fluids with max viscosity 37 cSt (5° E) ON <15 ms - OFF <25 ms in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body Seals Internal parts	brass (alimentary or anti-limestone nickel-platings on demand) NBR (CFB-A, CFB-E) - FKM (CFB-B, CFB-D) - EPDM (on demand) stainless steel - stainless steel and brass (CFB-D1)
ELECTRICAL FEATURES	
Voltage Voltage tolerance Power consumption Duty cycle Insulation class Electrical connection Protection class	12 V DC, 24 V DC - 24 V 50 Hz, 110 V 50/60 Hz, 220/230 V 50/60 Hz ±5% (DC) - ±10% (AC) 10 30 W (DC) - 9 29 VA (AC) ED 100% H (180°C) DIN EN 175 301-803-A - DIN EN 175 301-803-B 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.

 CODING EXAMPLE

CFB	-	Α	1	3	L	-	R	1	-	B7	E
CFB	SERIES										
Α	OPERATION A = indirect B = direct with D = direct E = indirect wi		agm /y-duty applicati	ons							
1	NUMBER OF W. 1 = 2/2-way - 2 = 2/2-way - 3 = 3/2-way -	NO NC	S								
3	CONNECTIONS 1 = 61/8 2 = 61/4 3 = 63/8 4 = 61/2 5 = 63/4 6 = 61 7 = 61 1/4 8 = 61 1/2 9 = 62										
L	ORIFICE DIAME 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 Z = 50 mm	TER									
R	SEALS MATERIA R = NBR W = FKM E = EPDM (on c										
1		/ anti-limeston	ie nickel-plated brass (on demai		mperatures (on	demand)					
B7	SOLENOID DIM B7 = 22 mm B8 = 30 mm B9 = 36 mm	ENSION									
E	SOLENOID VOL ⁻ B = 24 V AC 50 D = 110 V AC 50 E = 230 V AC 50 2 = 12 V DC 3 = 24 V DC	Hz 0/60 Hz									



TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES

For solenoids and their connectors voir la section dédiée. Coil mod. B8... / B9... - DIN EN 175 301-803-A = connector mod. 124-... Coil mod. B7... - DIN EN 175 301-803-B = connector mod. 122-...

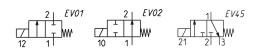
Mod.	24V AC 50 Hz	110V AC 50/60 Hz	220/230V AC 50/60 Hz	12V DC	24V DC
Direct acting solenoid valve, 2/2 NC - 2/2 NO - 3/2 NC					
FB-D21C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-D21F-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-D22C-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-D22F-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-D22G-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-D23J-*	B9B (29VA)	B9D (29VA)	B9E (29VA) **	not available	B93 (30W)
CFB-D24J-*	B9B (29VA)	B9D (29VA)	B9E (29VA) **	not available	B93 (30W)
FB-D24M-*	B9B (29VA)	B9D (29VA)	B9E (29VA) **	not available	not available
CFB-D11A-*	B8BK (15VA)	B8DK (15VA)	B8EK (15VA)	B82K (19W)	B83K (19W)
CFB-D12D-*	B8BK (15VA)	B8DK (15VA)	B8EK (15VA)	B82K (19W)	B83K (19W)
CFB-D13J-*	B8BK (15VA)	B8DK (15VA)	B8EK (15VA)	non disponibile	non disponibile
CFB-D31A-*	B8B (15VA)	B8D (15VA)	B8EK (15VA)	B82 (19W)	B83 (19W)
CFB-D31D-*	B8B (15VA)	B8D (15VA)	B8EK (15VA)	B82 (19W)	B83 (19W)
CFB-D32A-*	B8B (15VA)	B8D (15VA)	B8EK (15VA)	B82 (19W)	B83 (19W)
CFB-D32D-*	B8B (15VA)	B8D (15VA)	B8EK (15VA)	B82 (19W)	B83 (19W)
Direct acting solenoid valve					
with constrained diaphragm, 2/2 NC CFB-B23L-*	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
FB-B24N-*	B9B (29VA)	B9D (29VA) B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-B25P-*	B9B (29VA)	B9D (29VA) B9D (29VA)	B9E (29VA)	not available	B93 (30W) B93 (30W)
CFB-B26R-*			B9E (29VA)	not available	B93 (30W) B93 (30W)
	B9B (29VA)	B9D (29VA)	B7L (27VA)	notavailable	(1000)
Indirect acting solenoid valve, 2/2 NC					
CFB-A23L-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
FB-A24N-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
FB-A25P-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
FB-A26R-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B72 (10W)	B73 (10W)
FB-A27T-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-A28X-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
CFB-A29Z-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
Indirect acting solenoid valve, for heavy-duty applications, 2/2 NC					
CFB-E23L-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-E24N-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-E25P-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-E26R-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-E27T-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-E28X-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-E29Z-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
Indirect acting solenoid valve, 2/2 NO					
CFB-A13L-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B721(14W)	B731 (14W)
FB-A14N-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B721 (14W)	B731 (14W)
:FB-A15P-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B721 (14W)	B731 (14W)
:FB-A17T-*	B8B (15VA)	B8D (15VA)	B8E (15VA)	B82 (19W)	B83 (19W)
FB-A16R-*	B7B (9VA) *	B7D (9VA)	B7E (9VA)	B721 (14W)	B731 (14W)
FB-A18X-*	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
CFB-A19Z-*	B9B (29VA)	B9D (29VA)	B9E (29VA)	not available	B93 (30W)
	* B7B solenoid with nominal bifrequency	(** only to be used with nominal		(5500)
	of 50/60 Hz		frequency of 50 Hz		

DIRECT AND INDIRECT ACTING 2/2 - 3/2 SOLENOID VALVES > SERIES CFB SOLENOID VALVES

Series CFB solenoid valve - direct acting - 2/2 NC-NO e 3/2 NC

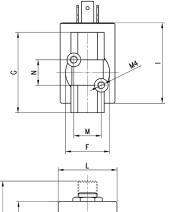


The direct control of these solenoid valves enables them to work with operating pressures which are equal to zero. Ports: G1/8 and G1/2.



* = 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



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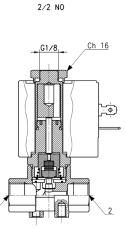
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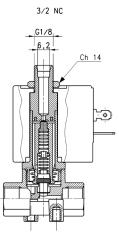
SW

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G1/8 Ch 14 ۲

2/2 NC





Mod.	Function	Ports	Ø Orifice (mm)	Kv (m³/h)	Pressure min÷max (bar)	А	В	C	F	G	SW	Н	I	L	Ν	М	Symbol
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-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 ÷ 2.5 [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]-/	15	45	89	37	55	27	39	47	36	22	22	EV01
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-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
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-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

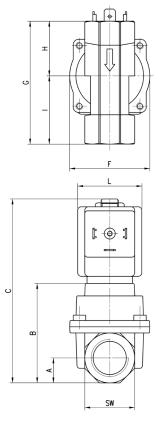
Series CFB solenoid valve - with linked diaphragm - 2/2 NC

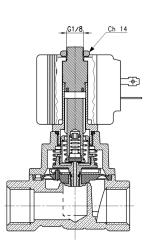


The diaphragm which is linked to the mobile plunger is a good arrangement between high fluid flow rates and working pressures (zero pressures as well). Ports: from G3/8 to G1. The standard diaphragm is supplied in FKM.

TABLE NOTE:

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





Mod.	Function	Ports	Ø Orifice (mm)	Kv (m³/h)	Pressure min÷max (bar)	Α	В	С	F	G	Н	I	L	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	36	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	36	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	36	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	36	42

Series CFB - indirect acting - 2/2 NC



The pilot of these indirect acting 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 to operate.

Ports: from G3/8 to G2. The standard diaphragm is supplied in NBR. On demand it can be supplied in FKM or EPDM.

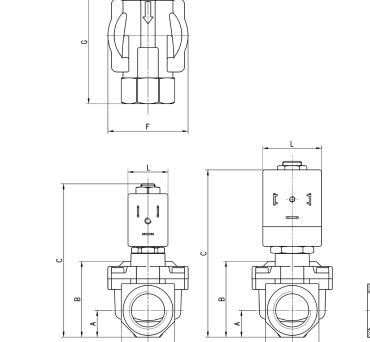


TABLE NOTE:

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

н

SW1



G3/8 . . . G1/2 DIN EN 175 301-803-B G1-1/4 . . . G2 DIN EN 175 301-803-A

SW

Mod.	Function	Ports	Ø Orifice (mm)	Kv (m³/h)	Pressure min÷max (bar)	А	В	С	F	G	Н	L	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	22	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	22	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	22	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	22	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	30	55	14
CFB-A28X-R1-*	2/2 NC	G1 1/2	45	31	0.4 ÷ 10 [AC 50 Hz / DC] - 0.4 ÷ 3.5 [AC 60 Hz]	31	85	138.3	110	138	G1/8	30	62	14
CFB-A29Z-R1-*	2/2 NC	G2	50	45	0.4 ÷ 10 [AC 50 Hz / DC] - 0.4 ÷ 3.5 [AC 60 Hz]	37.5	98.8	152	110	145	G1/8	30	75	14

SERIES CFB SOLENOID VALVES

Series CFB solenoid valve - indirect acting for heavy-duty applications - 2/2

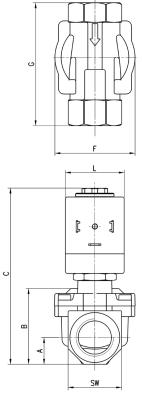


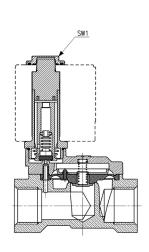


These solenoid valves have a solenoid protection system suitable to be used in particularly humid environments and in harsh conditions. The system consists of two gaskets placed above and below the coil and a lock nut that integrates the upper gasket. The standard diaphragm valve supplied is in NBR.

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)	А	В	С	F	G	Н	L	SW	SW1
CFB-E23L-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	30	24	13
CFB-E24N-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	30	13
CFB-E25P-R1-*	2/2 NC	G3/4	18	5.8	0.2 ÷ 15 [AC / DC]	18	46.5	91.5	54.4	74	M8x0.75	30	34	13
CFB-E26R-R1-*	2/2 NC	G1	26	9.5	0.2 ÷ 12 [AC / DC]	22.5	59.8	104.5	71	93	M8x0.75	30	45	13
CFB-E27T-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	30	55	14
CFB-E28X-R1-*	2/2 NC	G1 1/2	45	31	0.4 ÷ 10 [AC 50 Hz / DC] - 0.4 ÷ 3.5 [AC 60 Hz]	31	85	138.3	110	138	G1/8	30	62	14
CFB-E29Z-R1-*	2/2 NC	G2	50	45	0.4 ÷ 10 [AC 50 Hz / DC] - 0.4 ÷ 3.5 [AC 60 Hz]	37.5	98.8	152	110	145	G1/8	30	75	14

Series CFB - indirect acting - 2/2 NO



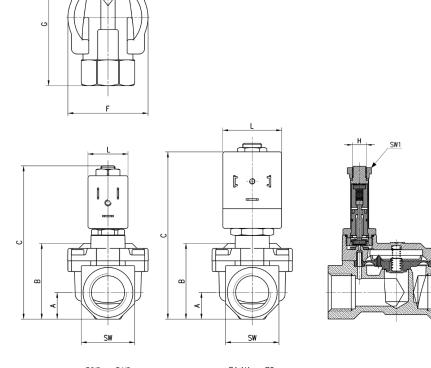
The pilot of these indirect acting solenoid valves controls the diaphragm position through a differential pressure. These valves are therefore particularly suitable for controlling high fluid flow rates and require very low working pressures to operate.

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



G3/8 . . . G1/2 DIN EN 175 301-803-B G1-1/4 . . . G2 DIN EN 175 301-803-A

Mod.	Function	Ports	Ø Orifice (mm)	Kv (m³/h)	Pressure min÷max (bar)	А	В	С	F	G	Н	L	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	22	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	22	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	22	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	22	45	13.5
CFB-A17T-R1-*	2/2 NO	G11/4	32	12.5	0.4 ÷ 12 [AC / DC]	27.5	73.5	130	86.6	111	G1/8	30	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	36	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	36	75	14

SERIES CFB SOLENOID VALVES

SERIES CFB STAINLESS STEEL SOLENOID VALVES

Series CFB stainless steel solenoid valves

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



Series CFB Stainless Steel direct acting 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 Operation Pneumatic connections Orifice diameter Flow coefficient Kv (m ³ /h) Operating pressure Operating temperature Media Response time Installation	2/2 NC - 3/2 NC direct acting poppet type G1/8 G1/2 threads 1.5 4 mm 0.08 0.28 0 ÷ 4 25 bar -10 ÷ 140 °C air, water, liquid and gaseous fluids with max viscosity 37 cSt (5° E) ON <15 ms - OFF <25 ms in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body Seals Internal parts	stainless steel 316L FKM - EPDM stainless steel
ELECTRICAL FEATURES Voltage Voltage tolerance Power consumption Duty cycle Insulation class Electrical connection Protection class	12 V DC, 24 V DC - 24V AC 50 Hz, 110 V AC 50/60 Hz, 220/230 V AC 50/60 Hz ±5% (DC) - ±10% (AC) 19 W (DC) - 15 VA (AC) ED 100% H (180°C) DIN EN 175-301-803-A connector 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.

SERIES CFB STAINLESS STEEL SOLENOID VALVES

CODING EXAMPLE

CFB	-		D		2	1	Α	-	W	Х	-	B8	E
CFB	SERIES												
D	OPERATION D = direct												
2	NUMBER OF V 2 = 2/2-way 3 = 3/2-way	- NC	POSITIONS	5									
1	CONNECTION 1 = G1/8 2 = G1/4 3 = G3/8 4 = G1/2	S											
Α	ORIFICE DIAM A = 1.5 mm B = 2 mm C = 2.5 mm E = 3 mm F = 4 mm	IETER											
W	SEALS MATER W = FKM E = EPDM	IAL											
X	BODY MATER X = 316L stair		eel										
B8	SOLENOID DI B8 = 30 mm	MENSIO	N										
E	VOLTAGE - PO B = 24 V 50/6 D = 110 V 50/ E = 230 V 50/ 2 = 12 V DC - 3 = 24 V DC -	50 Hz - 1 /60 Hz - /60 Hz - 19 W	15 VA 15 VA	ON									

TABLE FOR THE COUPLING BETWEEN SOLENOIDS AND VALVES

For solenoids and their connectors see the dedicated section. Coil mod. B8... - DIN EN 175 301-803-A = connector mod. 124-...

* = 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)

SERIES CFB STAINLESS STEEL SOLENOID VALVES

Series CFB solenoid valve - direct acting - 2/2 and 3/2 NC



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

Ports: from G1/8 to G1/2.

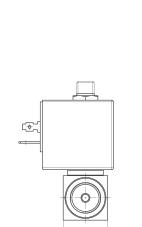
* add - SEALS MATERIAL - VOLTAGE (see CODING EXAMPLE)

Nb

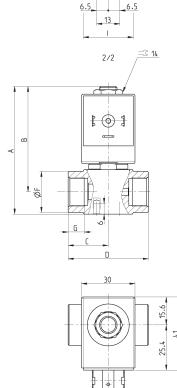
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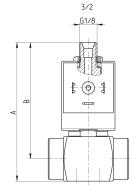
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ШН





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



Series 8 pneumatic operated cartridge valves

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









Series 8 pneumatic operated valves are particularly suitable for applications requiring high flow combined with 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 2/2-way NC.

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

- » New versions with PPS body
- » High flow
- » Manifold assembly
- » Oxygen use
- » Suitable also for general purpose

GENERAL DATA

TECHNICAL FEATURES	
Function Operation Pneumatic connections Orifice diameter Nominal flow Flow coefficient kv (l/min) Operating pressure Piloting pressure Operating temperature Media Installation	2/2 NC - 3/2 NC pneumatic operated poppet type cartridge seat in manifold 5 9 mm 420 1480 Nl/min (air at 6 bar ΔP 1 bar) 6.5 23 3 ÷ 6 bar (0 ÷ 6 bar with external pilot supply) 3 ÷ 6 bar 0 ÷ 50 °C filtered air class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas, oxigen in any position

MATERIALS IN CONTACT WITH THE MEDIUM

Body Internal parts Seals

SERIES 8 CARTRIDGE VALVES

CODING EXAMPLE

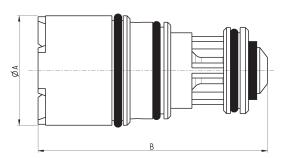
8	10 C5 1 00 - F1 3 2 -	OX2													
8	SERIES														
10	SIZE 10 = size 1 - Ø 10.0 mm 20 = size 2 - Ø 14.5 mm 30 = size 3 - Ø 22.0 mm														
C5	BODY DESIGN C5 = cartridge														
1	NUMBER OF WAYS - FUNCTIONS 1 = 2/2 or 3/2-way - NC														
	NOTE: the function 2/2 o 3/2-way depends on the seat used (see the following pages)														
00	PNEUMATIC CONNECTIONS 00 = cartridge														
F1	ORIFICE 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														
3	SEAL MATERIAL 3 = FKM														
2	BODY MATERIAL 2 = brass B = PPS - size 2 and size 3 only														
0X2	0X2 = 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.														

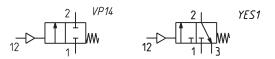
Series 8 pneumatic cartridge valve - 2/2-way NC and 3/2-way NC





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

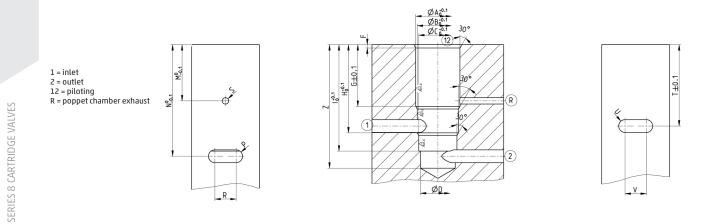




Mod.	Function	Orifice Ø (mm)	kv (l/min)	Min ÷ max pressure (bar)	Min ÷ max pilot pressure (bar)	Body material	A Ø (mm)	B (mm)
810C5100-F132-OX2	2/2 - 3/2 NC	5.0	6.5	0 ÷ 6	3 ÷ 6	brass	10	26.7
820C5100-G73B-OX2	2/2 - 3/2 NC	6.6	12.5	0 ÷ 6	3 ÷ 6	PPS	14.5	30.3
820C5100-G732-OX2	2/2 - 3/2 NC	6.6	12.5	0 ÷ 6	3 ÷ 6	brass	14.5	30.3
830C5100-K13B-OX2	2/2 - 3/2 NC	9.0	23	0 ÷ 6	3 ÷ 6	PPS	22	34.8
830C5100-K132-OX2	2/2 - 3/2 NC	9.0	23	0 ÷ 6	3 ÷ 6	brass	22	34.8

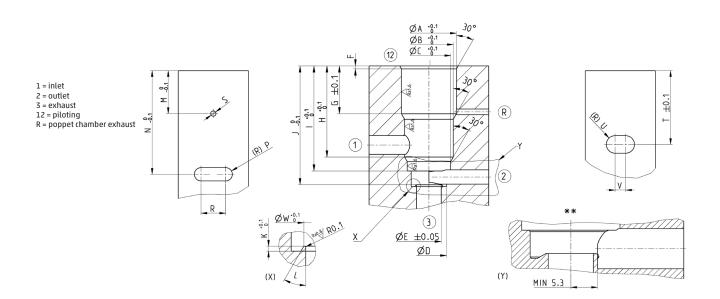
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com.

Series 8 pneumatic cartridge valve - 2/2-way NC - valve seat dimensions



SERIES	SERIES 8																
Size	А	В	С	D	F	G	Н	I	М	N	Р	R	S	т	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	1.5	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

Series 8 pneumatic cartridge valve - 3/2-way NC - valve seat dimensions



SERIE	SERIES 8																				
Size	А	В	С	D	E	F	G	Н	I	1	К	L	м	N	Р	R	S	т	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	1.5	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

CAMOZZI Automation

Series 8 pneumatically and electropneumatically operated valves

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



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 Operation Pneumatic connections Nominal diameter Flow coefficient kv (l/min) Nominal flow Operating pressure External pilot pressure Operating temperature Fluid Response times Installation	2/2 NC - 3/2 NC pneumatic or electropneumatic G1/8 - G1/4 - G3/8 5 9 mm 6.5 23 420 1480 Nl/min (air at 6 bar ΔP 1 bar) 3 ÷ 6 bar (0 ÷ 6 bar with external pilot supply) 3 ÷ 6 bar 0 ÷ 50 °C filtered air class [5:4:4] according to ISO 8573-1:2010 (oil viscosity max. 32 cSt), inert gases ON <10 ms - OFF <10 ms any position
MATERIALS IN CONTACT WITH FLUID	
Body Seals Internal parts	aluminium FKM aluminium – brass

ELECTRICAL SPECIFICATIONS

Voltage	24 V DC – other voltages on demand
Voltage tolerance	Size 1 = ±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 – 300 mm flying leads
Protection class	Size 1 = IP50 – Size 2 and 3 = IP65 (with connector)

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

CODING EXAMPLE

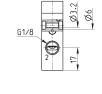
8 1	0 C3 4 O4 - F1 3 1 Y - N 00 2C C014
8	SERIES
10	SIZE 10 = size 1 20 = size 2 30 = size 3
C 3	TYPE OF BODY C3 = valve with aluminium body threaded connections
4	NUMBER OF WAYS - FUNCTIONS 1 = 2/2-way - NC 4 = 3/2-way - NC
04	PNEUMATIC CONNECTIONS 04 = 61/8 (size 1) 05 = 61/4 (size 2) 06 = 63/8 (size 3)
F1	ORIFICE 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
Y	MANUAL OVERRIDE N = not provided Y = provided monostable
Ν	MOUNTING ACCESSORIES N = not provided
00	OPTIONS 00 = no option PP = pneumatic piloting PE = electropilot with external piloting
2C	ELECTRICAL CONNECTION 2C = KN 90° type + protection + led - only for size 1 2F = KN in line type + protection + led - only for size 1 3A = DIN EN 175 301-803-C (8 mm) - only for size 2 and 3 4A = industrial standard (9.4 mm) - only for size 2 and 3 7A = 300 mm flying leads - only for size 2 and 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)

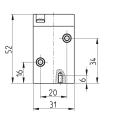
SERIES 8 PNEUMATICALLY AND ELECTROPNEUMATICALLY OPERATED VALVES

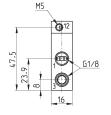
Series 8 pneumatic valve - size 1 - 2/2 and 3/2-ways NC

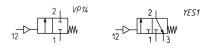










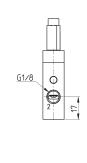


Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)	Min÷max pilot pressure (bar)	Pilot supply	Symbol
810C3104-F131N-NPP	2/2 NC	G1/8	5.0	6.5	420	0 ÷ 6	3 ÷ 6	External	VP14
810C3404-F131N-NPP	3/2 NC	G1/8	5.0	6.5	420	0 ÷ 6	3 ÷ 6	External	YES1

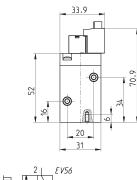
Series 8 solenoid valve - size 1 - 2/2 and 3/2-ways NC

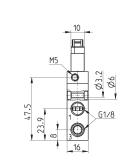


* add - ELECTRICAL CONNECTION - VOLTAGE (see CODING EXAMPLE)



Z











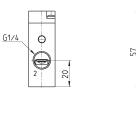
Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)	Min÷max pilot pressure (bar)	Pilot supply	Symbol
810C3104-F131Y-N00*	2/2 NC	G1/8	5.0	6.5	420	3 ÷ 6	-	Internal	EV62
810C3404-F131Y-N00*	3/2 NC	G1/8	5.0	6.5	420	3 ÷ 6	-	Internal	EV54
810C3104-F131Y-NPE*	2/2 NC	G1/8	5.0	6.5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

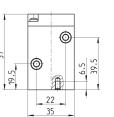
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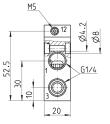
Series 8 pneumatic valve - size 2 - 2/2 and 3/2-ways NC

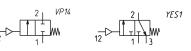










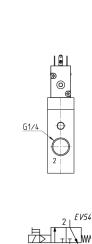


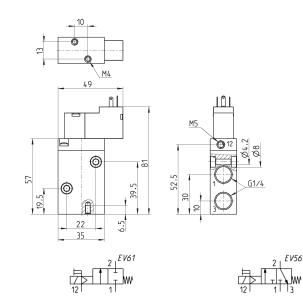
Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)	Min÷max pilot pressure (bar)	Pilot supply	Symbol
820C3105-G731N-NPP	2/2 NC	G1/4	6.6	12.5	800	0 ÷ 6	3 ÷ 6	External	VP14
820C3405-G731N-NPP	3/2 NC	G1/4	6.6	12.5	800	0 ÷ 6	3 ÷ 6	External	YES1

Series 8 solenoid valve - size 2 - 2/2 and 3/2-ways NC



* add - ELECTRICAL CONNECTION - VOLTAGE (see CODING EXAMPLE)





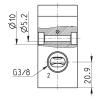
Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)	Min÷max pilot pressure (bar)	Pilot supply	Symbol
820C3105-G731Y-N00*	2/2 NC	G1/4	6.6	12.5	800	3 ÷ 6	-	Internal	EV62
820C3405-G731Y-N00*	3/2 NC	G1/4	6.6	12.5	800	3 ÷ 6	-	Internal	EV54
820C3105-G731Y-NPE*	2/2 NC	G1/4	6.6	12.5	800	0 ÷ 6	3 ÷ 6	External	EV61
820C3405-G731Y-NPE*	3/2 NC	G1/4	6.6	12.5	800	0 ÷ 6	3 ÷ 6	External	EV56

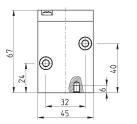


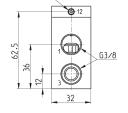
Series 8 pneumatic valve - size 3 - 2/2 and 3/2-ways NC



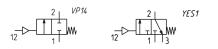








M5

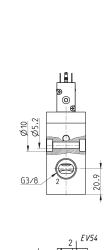


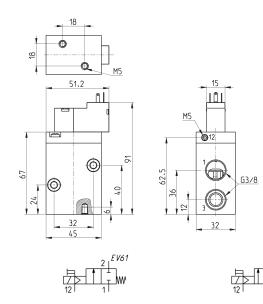
Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Qn (Nl/min)	Min÷max pressure (bar)	Min÷max pilot pressure (bar)	Pilot supply	Symbol
830C3106-K131N-NPP	2/2 NC	G3/8	9.0	23	1480	0 ÷ 6	3 ÷ 6	External	VP14
830C3406-K131N-NPP	3/2 NC	G3/8	9.0	23	1480	0 ÷ 6	3 ÷ 6	External	YES1

Series 8 solenoid valve - size 3 - 2/2 and 3/2-ways NC



* add - ELECTRICAL CONNECTION - VOLTAGE (see CODING EXAMPLE)





Mod.	Function	Ports	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
830C3406-K131Y-N00*	3/2 NC	G3/8	9.0	23	1480	3 ÷ 6	-	Internal	EV54
830C3106-K131Y-NPE*	2/2 NC	G3/8	9.0	23	1480	0 ÷ 6	3 ÷ 6	External	EV61
830C3406-K131Y-NPE*	3/2 NC	G3/8	9.0	23	1480	0 ÷ 6	3 ÷ 6	External	EV56

EV62

EV56

w

Series TC shut-off micro-valves





- » 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.

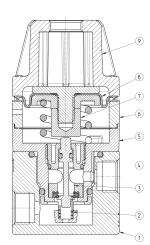
GENERAL DATA

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°C ÷ 50°C
Inlet pressure	0 ÷ 10 bar
Pilot pressure	0.6 ÷ 10 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
ТС	SERIES
1	SIZE
V	VALVE
36	CONSTRUCTION: 36 = pneumatic command
C	PORTS: C = Cartridge 1/8 = G1/8 1/8TF = 1/8NPTF
V	SEALS MATERIAL: V = FKM
0X2	VERSIONS: OX1 = for oxygen (non-volatile residue lower than 550 mg/m²) OX2 = for oxygen (non-volatile residue lower than 33 mg/m²)

Series TC shut-off micro-valves - materials

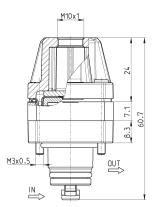


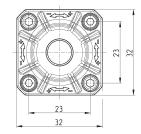
PARTS	MATERIALS	
1. Base body	Anodized aluminium	
2. Lower spring	Stainless steel	
3. Insert	PPS	
4. Poppet	Stainless steel	
5. Body	PPS	
6 Intermediate body	Anodized aluminium	
7. Valve guide	Polyamide	
8. Diaphragm	FKM	
9. Bell	Polyamide	
Seals	FKM	

SERIES TC SHUT-OFF MICRO-VALVES

Series TC cartridge shut-off micro-valves







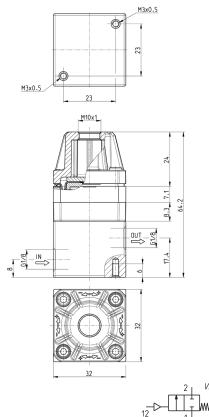
VP 14 2 1 m 12

Mod. TC1-V36-C-V-OX1 TC1-V36-C-V-OX2

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

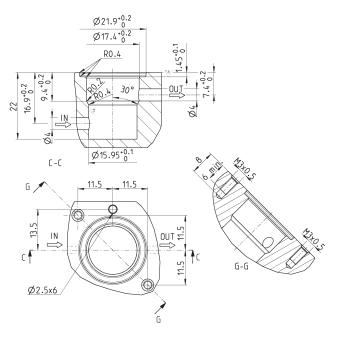


VP14 W

Mod.
TC1-V36-*-V-OX1
TC1-V36-*-V-OX2

SERIES TC SHUT-OFF MICRO-VALVES

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.

GENERAL DATA

Construction	spool-type
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	1W
Class of insulation	class F
Protection class	IP50

CODING EXAMPLE

			I							
E	5	2	1	-	11	 10	-	K	1	3
Ε	SERIES									
5	FUNCTION: 5 = 5/2 6 = 5/3 Cen 7 = 5/3 Cen 8 = 5/3 Cen									
2	SIZE: 2 = 10,5 mr	Π								
1	BODY TYPE: 1 = body wi	ith threaded pla	te							
11	16 = electro 33 = pneum 36 = pneum C33 = pneum	o-pneumatic, bis o-pneumatic, mo natic bistable - tu natic monostable matic bistable - matic monostabl	onostable Jbe 3 e - tube 4 tube 4							
10	INTERFACE: 10									
К	TYPE OF SOL K	ENOID:								
1	SOLENOID D 1 = 10x10	DIMENSION:								
3	SOLENOID V 1 = 6V DC 2 = 12V DC 3 = 24V DC	OLTAGE:								

Pneumatically actuated valve, monostable - size 10,5

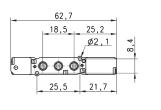
5/2-way

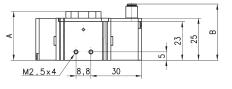
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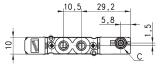


Note: the pilot pressure should never be lower than the operating pressure.

VP07





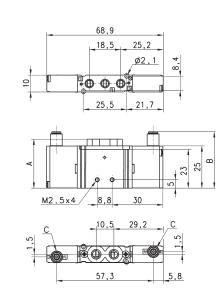


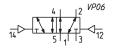
Mod.	Α	В	С	Ports 1-3-5	Ports 2-4	Min pilot pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)
E521-36	29	33,4	Ø3	M5	M5	2,5	2,5 ÷ 7	200
E521-C36	29	39,1	Ø4	M5	M5	2,5	2,5 ÷ 7	200

Pneumatically actuated valve, bistable - size 10,5

5/2-way





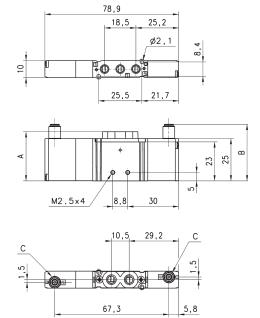


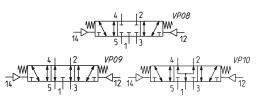
Mod.	A	B	С	Ports 1-3-5	Ports 2-4	Min pilot pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)
E521-33	29	33,4	Ø3	M5	M5	1	-09 ÷ 7	200
E521-C33	29	39,1	Ø 4	M5	M5	1	-09 ÷ 7	200

Pneumatically actuated valve - size 10,5

...

5/3-way CC = Centres closed CO = Centres open CP = Pressure centres





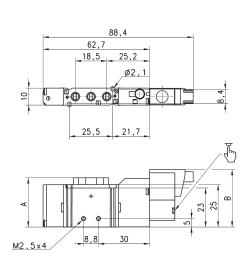
Mod.	А	В	С	Ports 1-3-5	Ports 2-4	Min pilot pressure (bar)	Working pressure (bar)	Flow rate NL/min	Symbol
E621-33	29	33.4	Ø3	M5	M5	2	-0.9 ÷ 7	200	VP08
E621-C33	29	39.1	Ø 4	M5	M5	2	-0.9 ÷ 7	200	VP08
E721-33	29	33.4	Ø 3	M5	M5	2	-0.9 ÷ 7	200	VP09
E721-C33	29	39.1	Ø 4	M5	M5	2	-0.9 ÷ 7	200	VP09
E821-33	29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

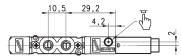


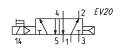
Electropneumatically actuated valve, monostable - size 10,5

5/2-way









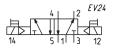
						For solenoid valves with solenoid type K, use connector 121-8
DIMENSIONS						type K, use connector 121-8
Mod.	А	Ports 1-3-5	Ports 2-4	working P. (bar)	Flow rate (Nl/min)	
E521-16-10-K1	29	M5	M5	2,5 ÷ 7	200	

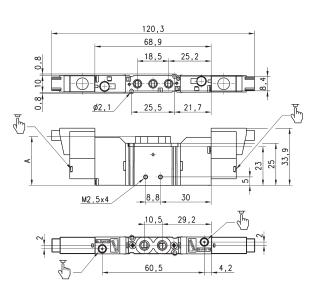
Electropneumatically actuated valve, bistable - size 10,5

5/2-way



Use connector Mod. Mod. 121-8..





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

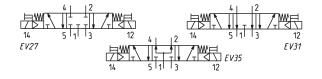
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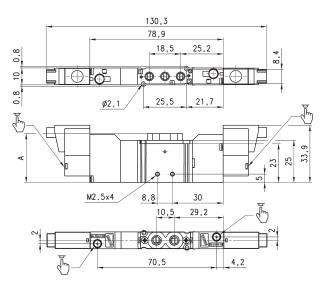
Electropneumatically actuated valve - size 10,5





Use connector Mod. 121-8...





Mod.	A	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
E	SERIES:
5	FUNCTION: 5 = 5/2 6 = 5/3 Centres Closed 7 = 5/3 Centres Open 8 = 5/3 Centres in Pressure
2	SIZE: 2 = 10,5 mm
0	BODY TYPE: 0 = body for sub-base
11	ACTUATION: 11 = electropneumatic bistable 16 = electropneumatic monostable 33 = pneumatic bistable - tube Ø 3 36 = pneumatic monostable - tube Ø 4 C36 = pneumatic monostable - tube Ø 4
10	INTERFACE: 10
К	TYPE OF SOLENOID: K
1	SOLENOID DIMENSIONS: 1 = 10x10
3	SOLENOID VOLTAGE: 1 = 6V DC 2 = 12V DC 3 = 24V DC

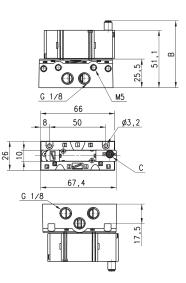
Pneumatically actuated valve, monostable - size 10,5

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	C	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

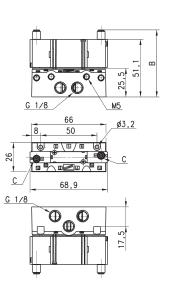
Pneumatically actuated valve, bistable - size 10,5

5/2-way



The single base is ordered separately from the valve.



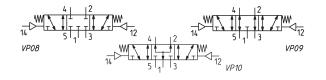


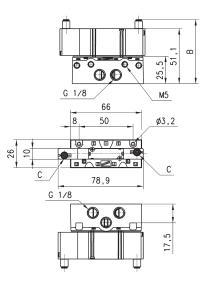
DIMENSIONS					
Mod.	В	С	min. pil P. (bar)	working P. (bar)	Flow rate (Nl/min)
E520-33	59,5	Ø3	1	-0,9 ÷ 7	280
E520-C33	65,2	Ø4	1	-0,9 ÷ 7	280

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	C	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

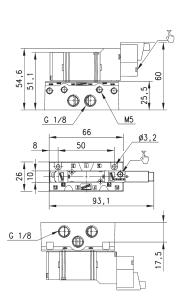
5/2-way



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

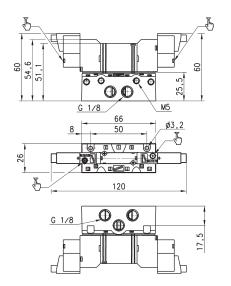
Electropneumatically actuated valve, bistable - size 10,5

5/2-way



The single base is ordered separately from the valve.





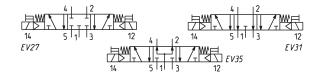
working P. bar	Flow rate Nl/min
2 ÷ 7	280
	2 - 7

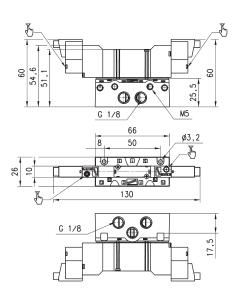
Electropneumatically actuated valve - size 10,5



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

CODING EXAMPLE

E5	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					

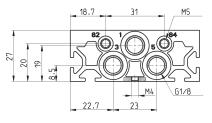
NOTE: When constructing manifolds with 10 or more stations, it is recommended, in order to reduce the risk of pressure drop within the assembly, that pressure is supplied to port 1 at each end of the block. The exhaust ports 3 and 5 at each end should also be utilized (size 10,5 and 16 mm). The same 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.

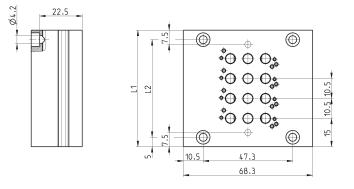
Manifolds for valves with outlets on the body Size 10,5

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



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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	08	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



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



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

|--|--|--|

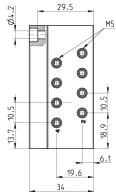
DIMENSIONS																					
Mod.	Size	G1	G2	G3	А	В	С	D	E	F	G	н	L	М	Ν	Р	R	S	Т	U	v
E520-0101	10,5	G1/8	M5	M5	26	66	8	50	4	15	37,3	57,3	8,2	17	18	24,5	8,2	17,2	32	17,5	25,5

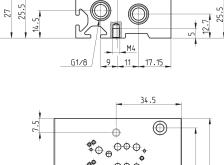
Manifolds for base mounted valves size 10,5 L

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

72







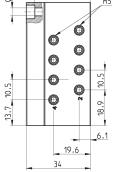
30.7

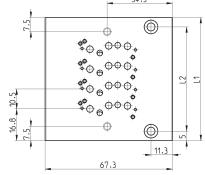
 $(\bigcirc$

M5

18.3

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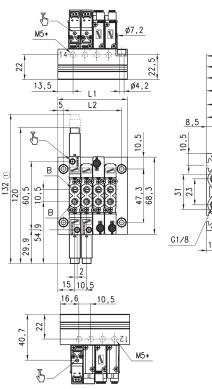


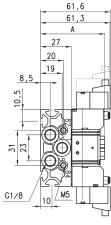
DIMENSIONS													
Mod.	Size	Nr positions	02	03	04	05	06	07	08	09	10	11	12
E520-21	10.5	L1	44	54.5	65	75.5	86	96.5	107	117.5	128	138.5	149
E520-21	10.5	L2	34	44.5	55	65.5	76	86.5	97	107.5	118	128.5	139
E520-2C	10.5	L1	44	54.5	65	75.5	86	96.5	107	117.5	128	138.5	149
E520-2C	10.5	L2	34	44.5	55	65.5	76	86.5	97	107.5	118	128.5	139

Manifolds with valves with outlets on the body - size 10.5

5/2 and 5/3, ports M5







DIMENS	SIONS				
Mod.	Α	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.

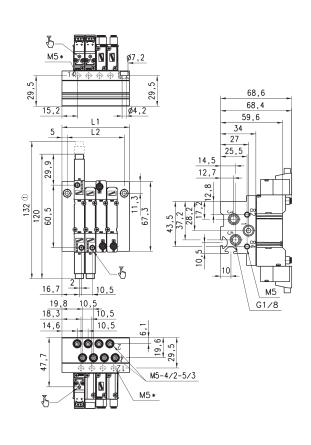
(1) Size referred to 5/3 valve M5* Separate pilot supply on

request.

Manifolds with valves for subbase - size 10.5

5/2 and 5/3





N° Positions 2 3 4 5 6 7 8 9 10				DIMENSIONS										
	POSILIOI	ns 2 3	4	5	6	7	8	9	10	11	12			
LI 44 54,5 65 75,5 86 96,5 107 117,5 128 1	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 1	L2	34 44,	5 55	65,5	76	86,5	97	107,5	118	128,5	139			

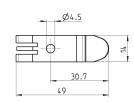
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com.

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



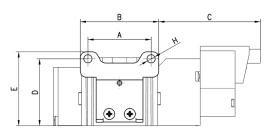


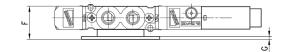
SERIES E VALVES AND SOLENOID VALVES

Horizontal mounting foot bracket for valves with outlets on the body



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



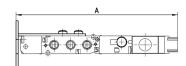


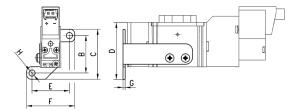
DIMENSION	15								
Mod.	Size	А	В	С	D	E	F	G	Н
B1-E521	10,5	27	33,5	43,4	28,5	31,5	14,2	1,2	3,5

Vertical mounting foot bracket for valves with outlets on the body



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



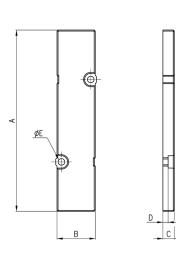


DIMENSIONS									
Mod.	Size	А	В	С	D	E	F	G	Н
B2-E521	10,5	90,8	21	28	31,9	21	27	1,2	3.5

Blanking plate for manifolds - valves with outlets on the body



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

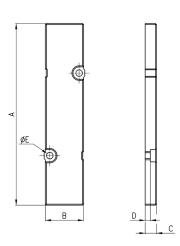


DIMENSIONS	5				
Mod.	Size	A	В	D	øΕ
TP-E521	10,5	66	10	3,5	2,1

Blanking plate for manifolds - base mounted valves



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

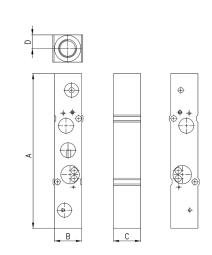


DIMENSION	S					
Mod.	Size	А	В	С	D	ø٤
TP-E520	10,5	66	10	6	3,5	2,1

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.



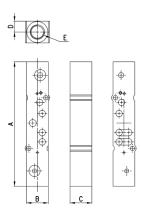
DIMENSIONS						
Mod.	Size	А	В	С	D	E
PCP-E521	10,5	72,5	10	10	5	M5

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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.

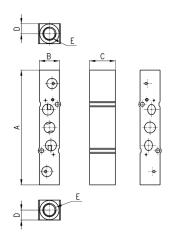


DIMENSIONS						
Mod.	Size	А	В	С	D	E
PCP-E520	10,5	72,5	10	10	5	M5

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.

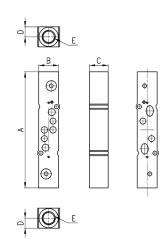


DIMENSIONS						
Mod.	Size	А	В	С	D	E
PCS-E521	10,5	76	10	10	5	M5

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



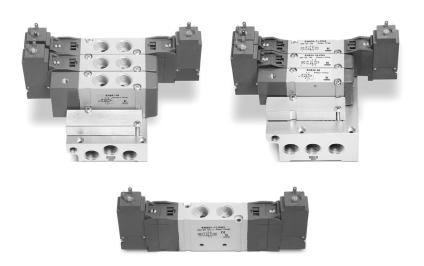
Kits for valves mounted on sub-base Mod. E2*0-**. The following is supplied: 1x plate 2x screws 1x interface seal 2x OR.



DIMENSIONS						
Mod.	Size	А	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	
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
Ports	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

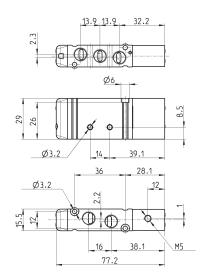
		1	1			1				
EN	5	3	1	-	11	-	PN3			
EN	SERIES									
5	FUNCTION: 5 = 5/2 6 = 5/3 Centre Close 7 = 5/3 Centre Oper 8 = 5/3 Pressure Ce	n								
3	SIZE: 3 = size 16 5 = size 19									
1	BODY TYPE: 1 = body with threa	BODY TYPE: 1 = body with threaded plate								
11	ACTUATION: 11 = electro-pneumatic, 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 P13 = 24V DC - 1W PN4 = 48V DC - 2W PN6 = 110V DC - 2W P53 = 24V DC - 2W P53 = 24V DC - 2W P56 = 110V DC - 2W W53 = 24V DC - 2W W54 = 48V DC - 2W	,								
	In case of application	ons with alternate curre	it, use a bridge rectifier	connector (see the con	nectors at the end of the sec	tion)				

Pneumatically actuated valve, monostable - size 16

5/2-way



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



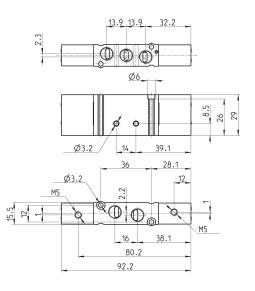


Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN531-36	G1/8	M5	2,5 ÷ 10	-0.9 ÷ 10	550

Pneumatically actuated valve, bistable - size 16

5/2-way





VP06 $\overline{14}$ J₁₂

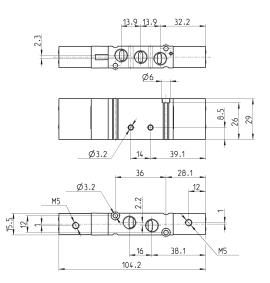
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN531-33	G1/8	M5	2÷10	-0.9 ÷ 10	550

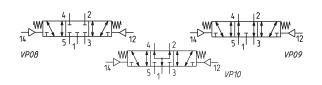
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Pneumatically actuated valve - size 16







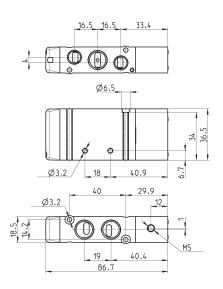
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN631-33	G1/8	M5	3÷10	-0.9 ÷ 10	550	VP08
EN731-33	G1/8	M5	3÷10	-0.9 ÷ 10	550	VP09
EN831-33	G1/8	M5	3÷10	-0,9 ÷ 10	550	VP10

Pneumatically actuated valve, monostable - size 19

5/2-way



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



VP07 $\overline{14}$

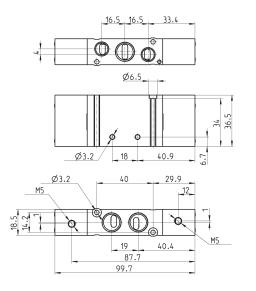
Mod.	Ports 1-2-4	Ports 3-5	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN551-36	G1/4	G1/8	M5	2.5 ÷ 10	-0.9 ÷ 10	920

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Pneumatically actuated valve, bistable - 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)
EN551-33	G1/4	G1/8	M5	2 ÷ 10	-0,9 ÷ 10	920

Pneumatically actuated valve - size 19

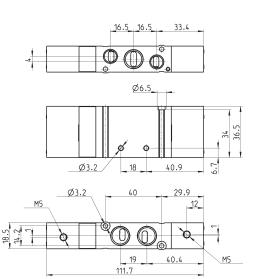
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	And	

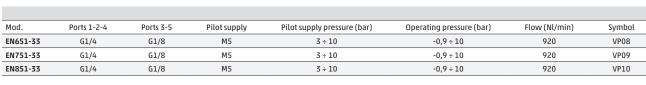
VP08

5/3-way CC = Centres closed CO = Centres open CP = Pressure Centres

14^C

VP10





VP09

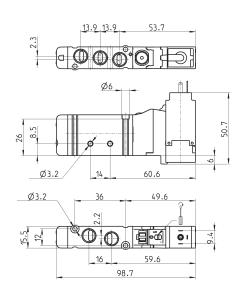
Electro-pneumatically actuated valve, monostable - size 16





Connectors at the end of this section





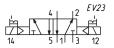
Mod.	Ports	Operating pressure (bar)	Flow (Nl/min)
EN531-16-PN	G1/8	2,5 ÷ 10	550

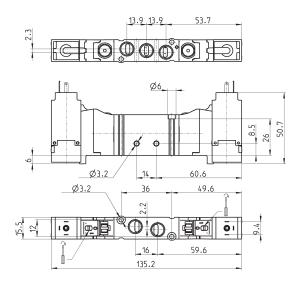
Electro-pneumatically actuated valve, bistable - size 16





Connectors at the end of this section

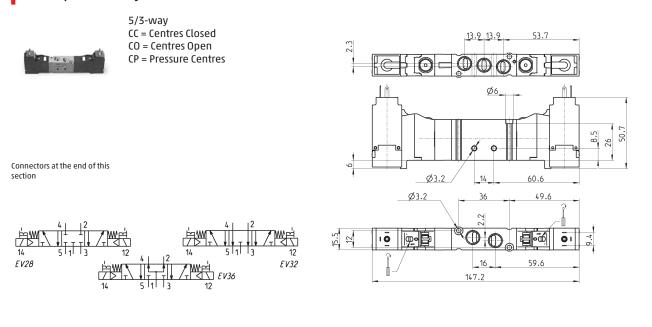




Mod.	Ports	Operating pressure (bar)	Flow (Nl/min)
EN531-11-PN	G1/8	2÷10	550



Electro-pneumatically actuated valve - size 16



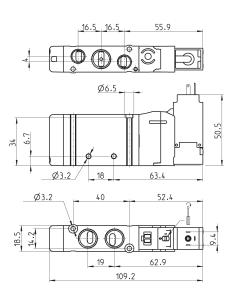
Mod.	Ports	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN631-11-PN	G1/8	3÷10	550	EV28
EN731-11-PN	G1/8	3÷10	550	EV32
EN831-11-PN	G1/8	3÷10	550	EV36

Electro-pneumatically actuated valve, monostable - size 19

5/2-way

Connectors at the end of this section



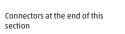


Mod.	Ports 1-2-4	Ports 3-5	Operating pressure (bar)	Flow (Nl/min)
EN551-16-PN	G1/4	G1/8	2,5 ÷ 10	920

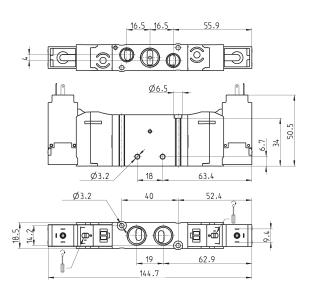
Electro-pneumatically actuated valve, bistable - size 19







	4	2	EV23
			₫
14	5	1 3	12



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

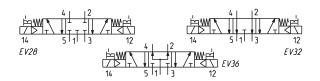
Electro-pneumatically actuated valve - size 19

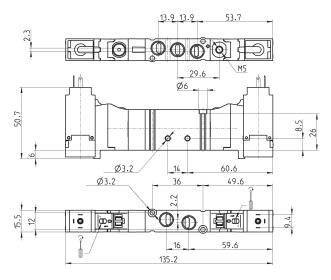
5/3-way



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

Connectors at the end of this section





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

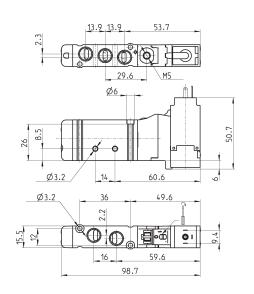
Electro-pneum. valve, monostable - ext. servo-pilot supply - size 16

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

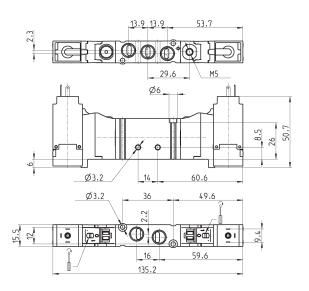
Electro-pneum. valve, bistable - ext. servo-pilot supply - size 16

5/2-way

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Connectors at the end of this section

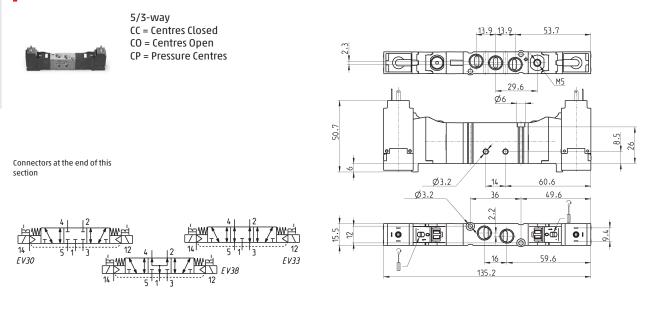




Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN531-E11-PN	G1/8	M5	2÷10	-0,9 ÷ 10	550

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



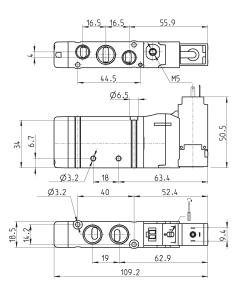
Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN631-E11-PN		G1/8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV30
EN731-E11-PN		G1/8	M5	3÷10	-0,9 ÷ 10	550	EV33
EN831-E11-PN		G1/8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV38

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

5/2-way

Connectors at the end of this section

EV22



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

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General terms and conditions for sal

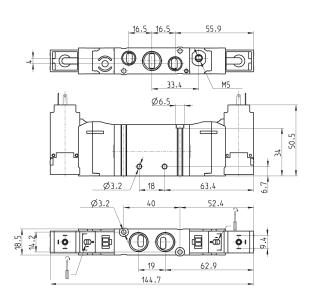
Electro-pneum. valve, bistable - ext. servo-pilot supply - size 19

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

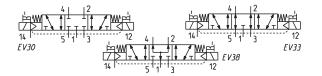
Electro-pneum. valve - ext. servo-pilot supply - size 19

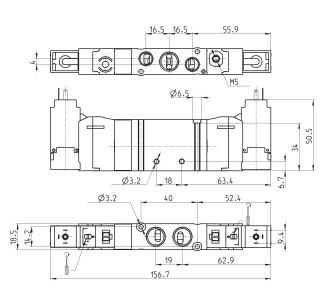
5/3-way

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

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 (NI/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 EV33								
EN751-E11-PN G1/4 G1/8 M5 3÷10 -0,9÷10 920 EV33	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
FN851-F11-PN . 61/4 61/8 M5 3÷10 -09÷10 920 FV38	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

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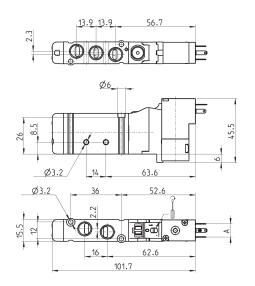
Electro-pneum. valve, monostable, solenoid P, W - size 16

5/2-way



Connectors at the end of this	
section	





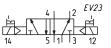
Mod.	Ports	A	Operating pressure (bar)	Flow (Nl/min)
EN531-16-P13	G1/8	9,4	2,5 ÷ 10	550
EN531-16-P54	G1/8	9,4	2,5 ÷ 10	550
EN531-16-P56	G1/8	9,4	2,5 ÷ 10	550
EN531-16-W53	G1/8	8	2,5 ÷ 10	550
EN531-16-W54	G1/8	8	2,5 ÷ 10	550

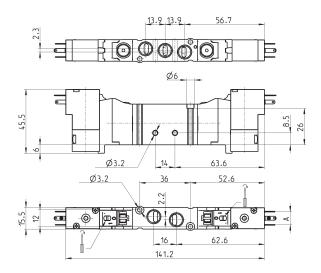
Electro-pneum. valve, bistable, solenoid P, W - size 16

5/2-way



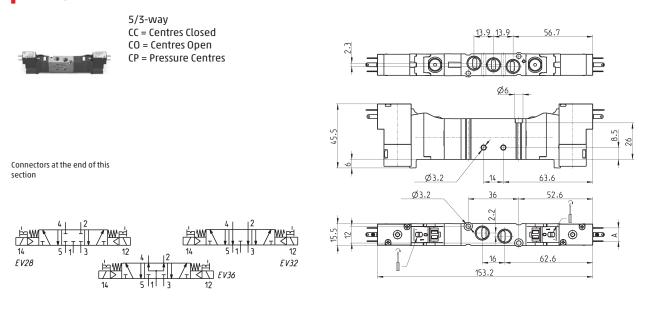
Connectors at the end of this section





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



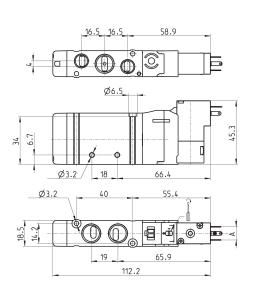
Mod.	Ports	А	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN631-11-P	G1/8	9,4	3÷10	550	EV28
EN731-11-P	G1/8	9,4	3 ÷ 10	550	EV32
EN831-11-P	G1/8	9,4	3÷10	550	EV36
EN631-11-W	G1/8	8	3 ÷ 10	550	EV28
EN731-11-W	G1/8	8	3÷10	550	EV32
EN831-11-W	G1/8	8	3÷10	550	EV36

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

5/2-way

Connectors at the end of this section





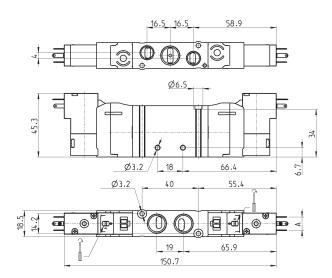
Mod.	Ports 1-2-4	Ports 3-5	А	Operating pressure (bar)	Flow (Nl/min)
EN551-16-P13	G1/4	G1/8	9,4	2,5 ÷ 10	920
EN551-16-P54	G1/4	G1/8	9,4	2,5 ÷ 10	920
EN551-16-P56	G1/4	G1/8	9,4	2,5 ÷ 10	920
EN551-16-W53	G1/4	G1/8	8	2,5 ÷ 10	920
EN551-16-W54	G1/4	G1/8	8	2,5 ÷ 10	920

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

5/2-way





Connectors at the end of this section



EV23

Mod.	Ports 1-2-4	Ports 3-5	А	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

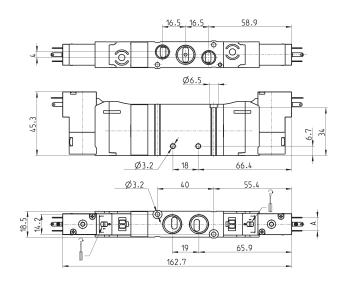
12

Connectors at the end of this

section

14 *E V28*

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



Mod.	Ports 1-2-4	Ports 3-5	A	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

EV32

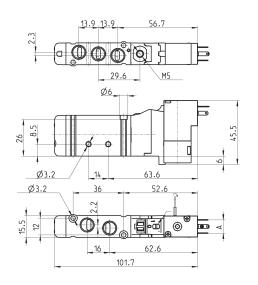
Electro-pneum. valve, monost. ext. servo-pilot sup., sol. P/W - size 16

5/2-way



Connectors at the end of this section





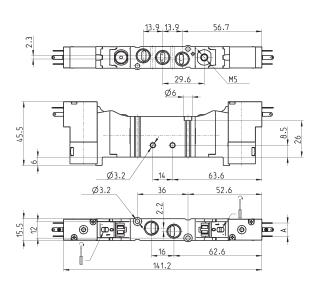
Mod.	Ports	А	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN531-E16-P	G1/8	9,4	M5	2,5 ÷ 10	-0,9 ÷ 10	550
EN531-E16-W	G1/8	8	M5	2,5 ÷ 10	-0,9 ÷ 10	550

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

5/2-way

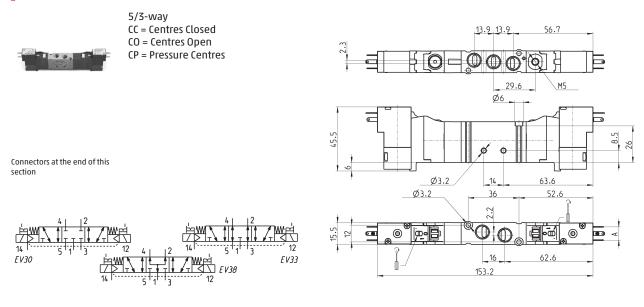
Connectors at the end of this section

EV26



Mod.	Ports	A	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



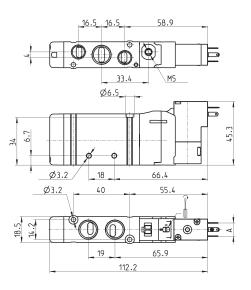
A 9,4 9,4 9,4 9,4 9,4	Pilot supply M5 M5	Pilot supply pressure (bar) 3 ÷ 10 3 ÷ 10	Operating pressure (bar) -0,9 ÷ 10 -0,9 ÷ 10	Flow (Nl/min) 550 550	Symbol EV30 EV33
9,4	M5	3÷10			
			-0,9 ÷ 10	550	EV33
0.4	145				
9,4	M5	3 ÷ 10	-0,9 ÷ 10	550	EV38
8	M5	3÷10	-0,9÷10	550	EV30
8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV33
8	M5	3 ÷ 10	-0,9 ÷ 10	550	EV38
	8				

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

5/2-way

Connectors at the end of this section

EV22



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

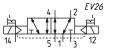
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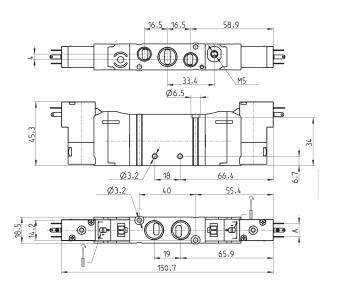
Electro-pneum. valve, bistable ext. servo-pilot sup., sol. P/W - size 19

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

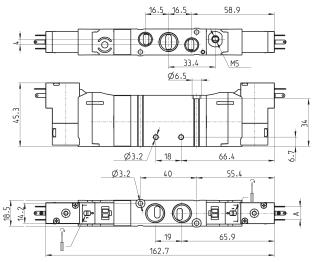


Connectors at the end of this

section

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



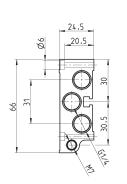
14 [*] EV30	5 1 3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

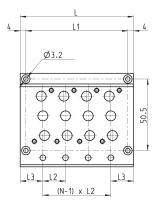
Mod.	Ports 1-2-4	Ports 3-5	А	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN651-E11-P	G1/4	G1/8	9,4	M5	3÷10	-0,9 ÷ 10	920	EV30
EN751-E11-P	G1/4	G1/8	9,4	M5	3÷10	-0,9 ÷ 10	920	EV33
EN851-E11-P	G1/4	G1/8	9,4	M5	3÷10	-0,9 ÷ 10	920	EV38
EN651-E11-W	G1/4	G1/8	8	M5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

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





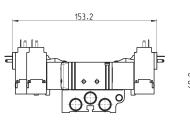


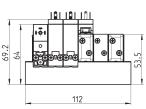
Mod.	Nr of valve positions	L	L1	L2	L3
EN531-1002	2	48	40	16	16
EN531-1003	3	64	56	16	16
EN531-1004	4	80	72	16	16
EN531-1005	5	96	88	16	16
EN531-1006	6	112	104	16	16
EN531-1008	8	144	136	16	16
EN531-1010	10	176	168	16	16
EN531-1012	12	208	200	16	16
EN551-1002	2	53	45	19	17
EN551-1003	3	72	64	19	17
EN551-1004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

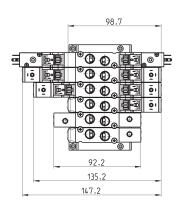
Manifolds complete with valves with outlets on the body - size 16







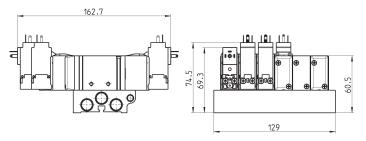


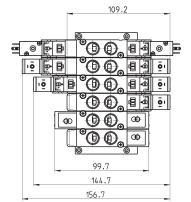


Manifolds complete with valves with outlets on the body - size 19

ports G1/4









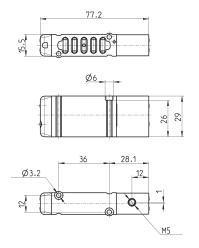
CODING EXAMPLE

				1		1	
EN	5	3	0	-	11	-	PN3
EN	SERIES						
5	FUNCTION: 5 = 5/2 6 = 5/3 Centre Close 7 = 5/3 Centre Oper 8 = 5/3 Pressure Ce	ו					
3	SIZE: 3 = size 16 5 = size 19						
0	BODY TYPE: 0 = body for sub-ba	se					
11		natic, monostable table		ply			
PN3	TYPE OF SOLENOID: PN3 = 24V DC - 1W PN4 = 48V DC - 2W PN6 = 110V DC - 2W PN7 = 230V - 2W P13 = 24V DC - 1W P54 = 48V DC - 2W W53 = 24V DC - 2W W54 = 48V DC - 2W						
	In case of application	ons with alternate currer	t, use a bridge rectifier o	connector (see connecto	ors at the end of this section	ı)	



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

5/2-way



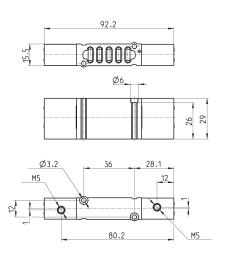


Mod.	Pilot supply	min. pilot Pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)
EN530-36	M5	2,5	2,5 ÷ 10	610

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

5/2-way

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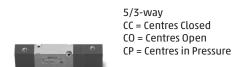


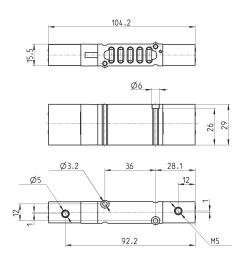
VP06 $\overline{14}$ 1-12

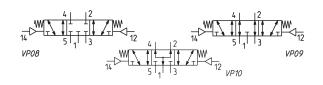
Mod.	Pilot supply	min. pilot pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)
EN530-33	M5	2	-0,9 ÷ 10	610

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





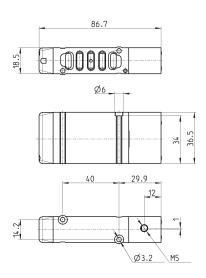


Mod.	Pilot supply	min. pilot pressure (bar)	Working pressure (bar)	Flow rate (Nl/min)	Symbol
EN630-33	M5	3	-0,9 ÷ 10	610	VP08
EN730-33	M5	3	-0,9÷10	610	VP09
EN830-33	M5	3	-0,9 ÷ 10	610	VP10

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

5/2-way





VP07 $\overline{14}$

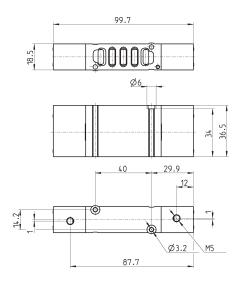
Mod.	Pilot supply	min. pilot pressure (bar)	working P. (bar)	Flow rate (Nl/min)
EN550-36	M5	2,5	2÷10	1000

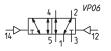
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Pneumatic valve, bistable with outlets on sub-base - size 19

5/2-way

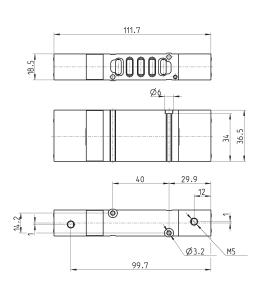


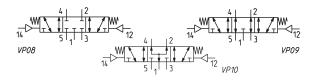




Mod.	Pilot supply	min. pilot pressure (bar)	Working pressure (bar)	Flow rate Nl/min
EN550-33	M5	2	-0,9 ÷ 10	1000

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





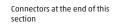
Mod.	Pilot supply	min. pilot pressure (bar)	working P. bar	Flow rate Nl/min	Symbol
EN650-33	M5	3	-0,9 ÷ 10	1000	VP08
EN750-33	M5	3	-0,9 ÷ 10	1000	VP09
EN850-33	M5	3	-0,9 ÷ 10	1000	VP10

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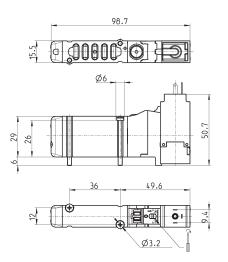
Electropneumatic valve, monostable with outlets on sub-base - s. 16







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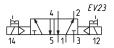


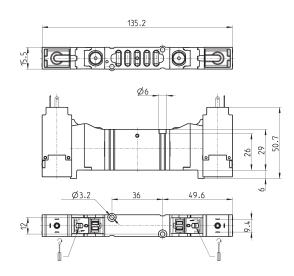
Mod.	Working pressure (bar)	Flow rate (Nl/min)
EN530-16-PN	2,5 ÷ 10	610

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

5/2-way

Connectors at the end of this section



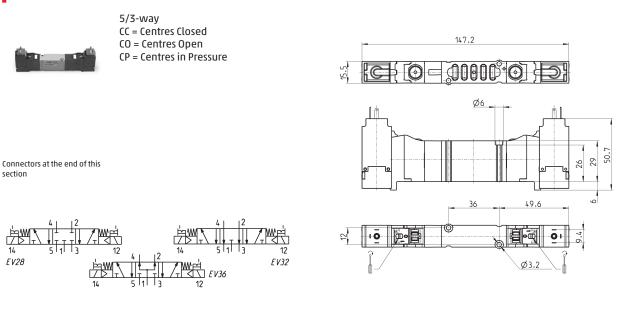


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Mod.	Working pressure (bar)	Flow rate (Nl/min)
EN530-11-PN	2÷10	610



Electropneumatical valve with outlets on sub-base - size 16



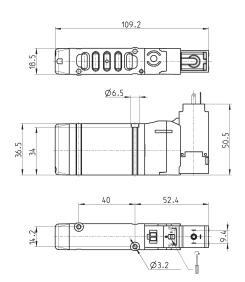
Mod.	Working pressure (bar)	Flow rate (Nl/min)	Symbol
EN630-11-PN	3÷10	610	EV28
EN730-11-PN	3÷10	610	EV32
EN830-11-PN	3÷10	610	EV36

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

5/2-way

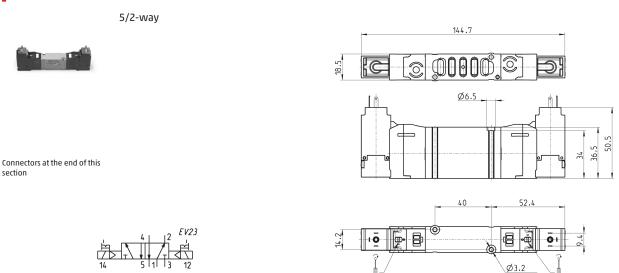
Connectors at the end of this section





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

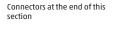


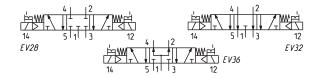
Mod.	Working presure (bar)	Flow rate (Nl/min)
EN550-11-PN	2÷10	1000

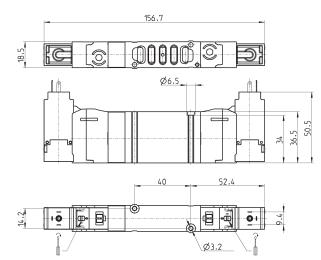
Electropneumatical valve with outlets on sub-base - size 19

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

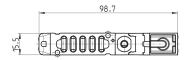
section

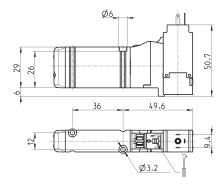
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Electro-pn. monost. valve, ext. pilot supply, outlets on sub-base - s. 16

5/2-way







Connectors at the end of this section

EV22

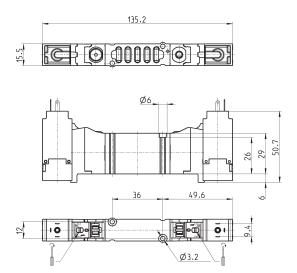
Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN530-E16-PN	2,5 ÷ 10	-0,9÷10	610

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

Connectors at the end of this section

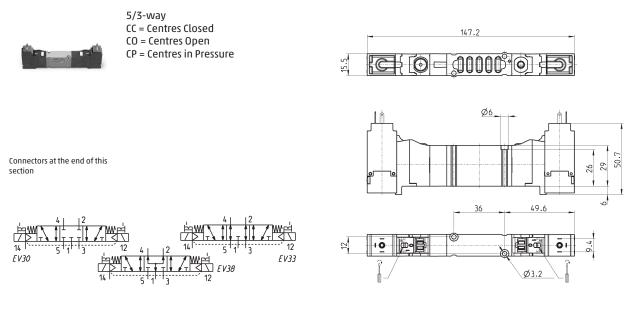
EV26

5/2-way



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



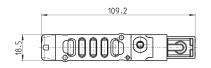
Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN630-E11-PN	3÷10	-0,9÷10	610	EV30
EN730-E11-PN	3÷10	-0,9÷10	610	EV33
EN830-E11-PN	3÷10	-0,9÷10	610	EV38

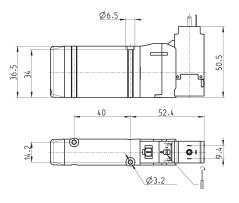
Electro-pn. monost. valve, ext. pilot supply, outlets on sub-base - s. 19

5/2-way

Connectors at the end of this section

EV22





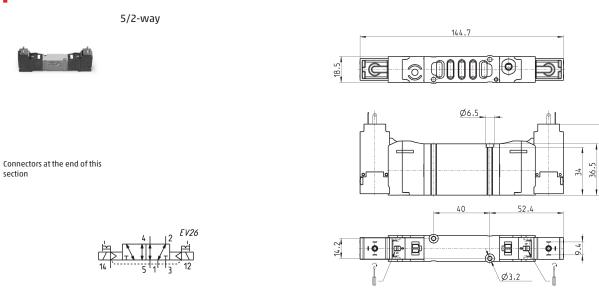
Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN550-E16-PN	2,5 ÷ 10	-0,9÷10	1000

Automatio

EN550-I

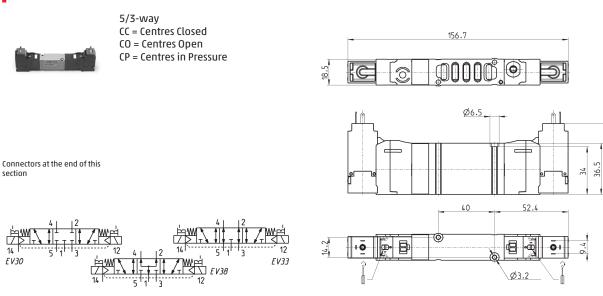


Electro-pn. bistable valve, ext. pilot supply, outlets on sub-base - s. 19



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



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

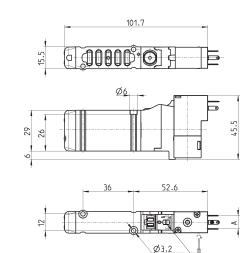
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Electro-pn. monostable valve, sol. P / W, outlets on sub-base - s. 16

5/2-way





Connectors at the end of this section

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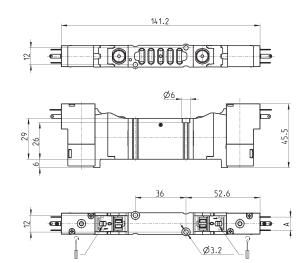
Mod.	А	Operating pressure (bar)	Flow (Nl/min)
EN530-16-P13	9,4	2,5 ÷ 10	610
EN530-16-P54	9,4	2,5 ÷ 10	610
EN530-16-P56	9,4	2,5 ÷ 10	610
EN530-16-W53	8	2,5÷10	610
EN530-16-W54	8	2,5÷10	610

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

5/2-way

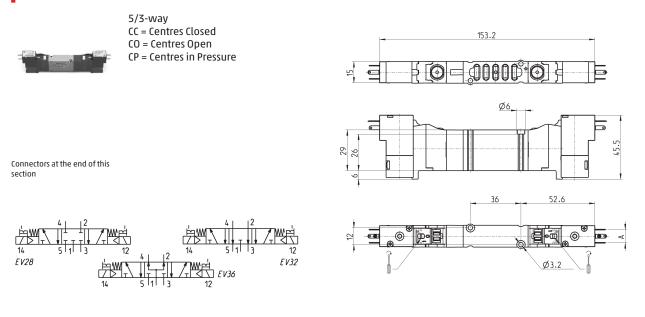
Connectors at the end of this section





Mod.	A	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



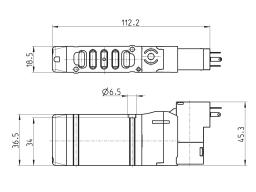
Mod.	А	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN630-11-P	9,4	3÷10	610	EV28
EN730-11-P	9,4	3÷10	610	EV32
EN830-11-P	9,4	3÷10	610	EV36
EN630-11-W	8	3÷10	610	EV28
EN730-11-W	8	3÷10	610	EV32
EN830-11-W	8	3÷10	610	EV36

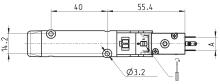
Electro-pn. monostable valve, sol. P / W, outlets on sub-base - s. 19

5/2-way

Connectors at the end of this section





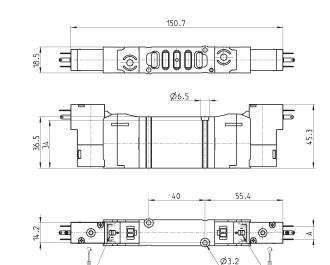


Mod.	Operating pressure (bar)	Flow (Nl/min)
EN550-16-P13	2,5 ÷ 10	1000
EN550-16-P54	2,5 ÷ 10	1000
EN550-16-P56	2,5÷10	1000
EN550-16-W53	2,5÷10	1000
EN550-16-W54	2,5 ÷ 10	1000

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

5/2-way





Connectors at the end of this section



Mod.	A	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

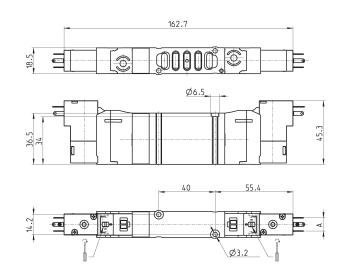
Connectors at the end of this

12

section

14 E V28

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



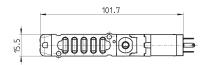
Mod.	А	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN650-11-P	9,4	3÷10	1000	EV28
EN750-11-P	9,4	3÷10	1000	EV32
EN850-11-P	9,4	3÷10	1000	EV36
EN650-11-W	8	3÷10	1000	EV28
EN750-11-W	8	3÷10	1000	EV32
EN850-11-W	8	3 ÷ 10	1000	EV36

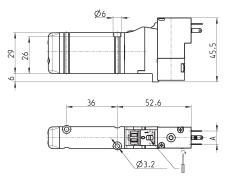
EV32

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

5/2-way







Connectors at the end of this section

EV22

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

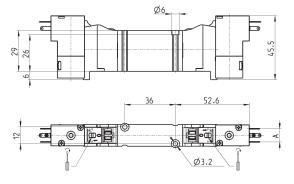
EV26

5/2-way

Connectors at the end of this section

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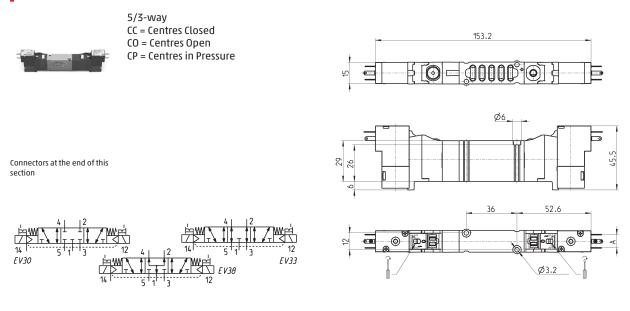
141.2



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

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



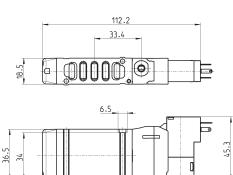
Mod.	Α	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN630-E11-P	9,4	3÷10	-0,9 ÷ 10	610	EV30
EN730-E11-P	9,4	3÷10	-0,9 ÷ 10	610	EV33
EN830-E11-P	9,4	3÷10	-0,9 ÷ 10	610	EV38
EN630-E11-W	8	3÷10	-0,9 ÷ 10	610	EV30
EN730-E11-W	8	3÷10	-0,9 ÷ 10	610	EV33
EN830-E11-W	8	3÷10	-0,9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

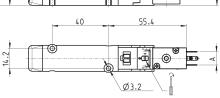
Electro-pn. mono. valve, pilot sup. sol. P / W, outlets on base - s. 19

5/2-way

Connectors at the end of this section







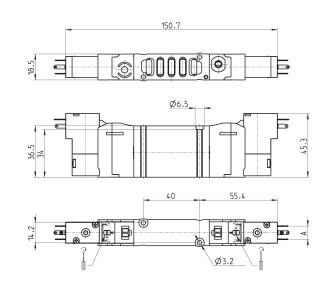
Mod.	А	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN550-E16-P	9,4	2,5 ÷ 10	-0,9 ÷ 10	1000
EN550-E16-W	8	2,5 ÷ 10	-0,9 ÷ 10	1000

Automation

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

5/2-way





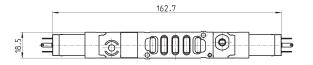
Connectors at the end of this section

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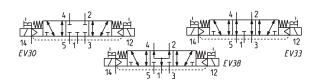
Mod.	А	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
EN550-E11-P	9,4	2 ÷ 10	-0,9 ÷ 10	1000
EN550-E11-W	8	2÷10	-0,9 ÷ 10	1000

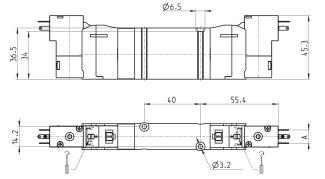
Electro-pneum. valve, pilot sup. sol. P / W, outlets on base - s. 19

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







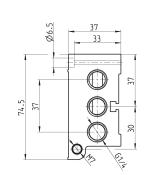


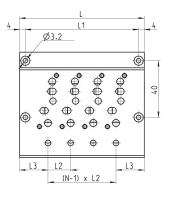
Mod.	А	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
EN650-E11-P	9,4	3÷10	-0,9 ÷ 10	1000	EV30
EN750-E11-P	9,4	3÷10	-0,9 ÷ 10	1000	EV33
EN850-E11-P	9,4	3÷10	-0,9 ÷ 10	1000	EV38
EN650-E11-W	8	3÷10	-0,9 ÷ 10	1000	EV30
EN750-E11-W	8	3÷10	-0,9 ÷ 10	1000	EV33
EN850-E11-W	8	3÷10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

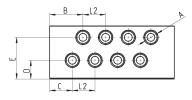
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Manifold for valves size 16 and 19 (outlets on manifolds)





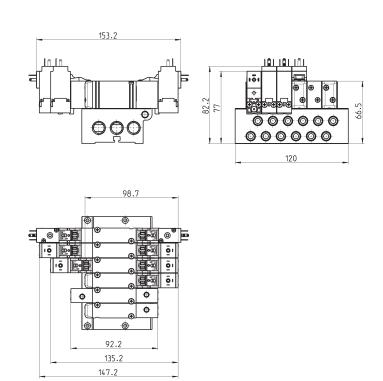




Mod.	Nr of valve positions	Α	В	C	D	E	1	L1	L2	L3
EN530-2102	2	G1/8	23,5	16	12,8	29	56	48	16	20
EN530-2102	3	G1/8	23,5	16	12,8	29	72	64	16	20
	-		· · ·							
EN530-2104	4	G1/8	23,5	16	12,8	29	88	80	16	20
EN530-2105	5	G1/8	23,5	16	12,8	29	104	96	16	20
EN530-2106	6	G1/8	23,5	16	12,8	29	120	112	16	20
EN530-2108	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

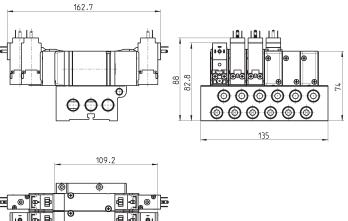
Manifolds complete with base moutend valves - size 16

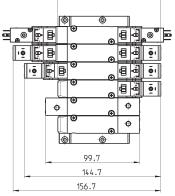




Manifolds complete with base moutend valves - size 19



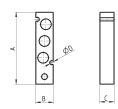




Blanking plate for manifolds - valves with outlets on the body



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

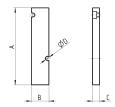


Mod.	Size	А	В	С	ØD
TP-EN531	16	60	14,5	12	3,2
TP-EN551	19	62	17,3	12	3,2

Blanking plate for manifolds - base mounted valves



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



Mod.	Size	А	В	C	ØD
TP-EN530	16	64	14,7	6	3,2
TP-EN550	19	64	17	6	3,2

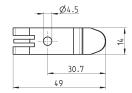
Mounting brackets for DIN rail



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

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

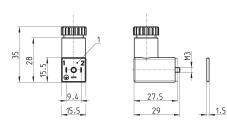






Connector Mod. 125-... DIN 43650 pitch 9.4 mm



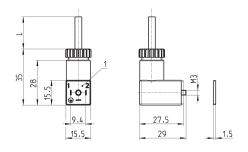


Mod.	description	colour	working voltage	cable gland	tightening torque	
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm	
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm	1 = 90° adjustable connector
125-800	connector, without electronics	black	-	PG7	0.3 Nm	

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



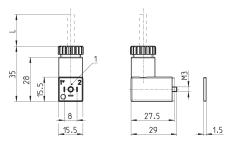
The internal rectifier circuit of the connector Mod. 125-900 allows to use solenoid valves with different AC voltage, even if the voltage indicated on the solenoid valve is DC.



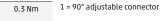
Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque	
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm	
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm	
125-601-2	pre-wired cable, diode + Led	transparent	10/50 V DC	2000 mm	PG7	0.3 Nm	1 = 90° adjustable connect
125-571-3	moulded cable, varistor + Led	black	24 V AC/DC	3000 mm	-	0.3 Nm	
125-900	pre-wired cable with voltage rectifier	black	6 V - 110 V AC/DC	2000 mm	PG7	0.3 Nm	

Connector Mod. 126-... DIN 43650 pitch 8 mm



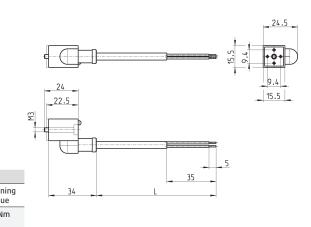


Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque
126-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm
126-800	connector, without electronics	black	-	-	PG7	0.3 Nm
126-701	connector, varistor + Led	transparent	24 V AC/DC	-	PG7	0.3 Nm



In-line connectors with cable

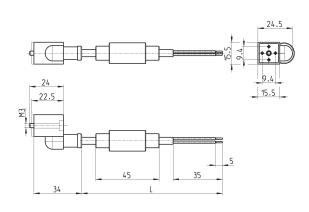




Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque
125-503-2	in-line moulded cable, with diode + Led	black	24 V DC	2000 mm	-	0.3 Nm
125-503-5	in-line moulded cable, with diode + Led	black	24 V DC	5000 mm	-	0.3 Nm
125-553-2	in-line moulded cable, without electronics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



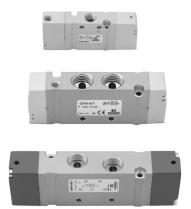


Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque
125-903-2	in-line moulded cable with voltage rectifier	black	6 V - 230 V AC/DC	2000 mm	-	0.3 Nm
125-903-5	in-line moulded cable with voltage rectifier	black	6 V - 230 V AC/DC	5000 mm	-	0.3 Nm



Series D valves and solenoid valves VA version

3/2; 2x3/2; 5/2; 5/3-way With outlets on the body - For individual or manifold assembly Size 10,5 - 16 - 25 mm









Camozzi has developed a new series of valves for applications with limited installation space where it is necessary to have the control elements as close to the actuator as possible.

Valves with threads on the body can be used individually or assembled on manifold. The sub-base version allows a better cleaning of the application. Thanks to the extreme robust aluminium body, the Series D valves guarantee maximum reliability even under difficult operating conditions.

- » Can be used individually or in parallel groups
- » Pneumatic and electric version
- » Flow up to 2000 Nl/min
- Aluminium body and technolpolymer end caps
- » Installation in narrow spaces
- » Electric connection also with M8 connector

GENERAL DATA

Valve construction	spool- type
Valve functions	3/2 NC/N0; 2x3/2 NC/N0/NC+N0; 5/2; 5/3 CC/CO/CP
Materials	body, spool, bases = AL; end caps = technopolymer; seals = HNBR
Ports	M7 - G1/4 - G3/8
Ambient temperature	0°C min. + 50° C max
Medium	compressed, filtered and non-lubricated air in class [7:4:4] according to ISO 8573-1:2010. In case lubrication should be necessary, only use oils with a maximum viscosity of 32 Cst and the version with external servo pilot. The air quality for the servo pilot should be of class [7:4:4] according to ISO 8573-1:2010
Voltage	24V DC
Voltage tolerance	±10%
Power consumption	1W
Class of insulation	class F
Protection class	IP65 with EN 175301 C connector ("3" actuation. Ex DIN 43650)* IP65 with M8 connector ("C" actuation)* IP40 with micro connector ("E" actuation)* *See coding example

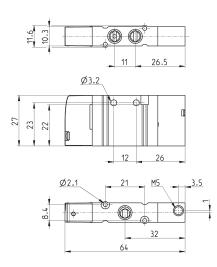
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com

CODING EXAMPLE

	-	_			_			
D	1	E	VA	-	B	P	-	BS
D	SERIES							
1	SIZE: 1 = 10.5 mm 2 = 16 mm 4 = 25 mm							
E	ACTUATION: E = electric (D1 ar 3 = electric 15 mm C = electric with M P = pneumatic		d D2)					
VA	COMPONENT: VA = Valve with th	readed body						
В	TYPE OF SOLENOID M = 5/2 Monostab B = 5/2 Bistable P = 3/2 NC Q = 3/2 NO $C = 2 \times 3/2$ NO $G = 2 \times 3/2$ NO $G = 2 \times 3/2$ NO $G = 2 \times 3/2$ (NC+NI N = 5/3 CP V = 5/3 CO K = 5/3 CO	le	SOLENOID VAI MZ = 5/2 Mon BZ = 5/2 Bista PZ = 3/2 NC QZ = 3/2 NO CZ = 2 × 3/2 N AZ = 2 × 3/2 N GZ = 2 × 3/2 (NZ = 5/3 CP VZ = 5/3 CC	bile C O	RVO-PILOT SUPPLY			
Ρ	TYPE OF MANUAL C P = push button (r R = with push and 0 = for P actuation	not for D4) turn device						
BS	CONNECTIONS: T = Thread A = 04 (D1) fitting 06 (D2) S6510 6 C = 08 (D2) fitting D = 010 (D4) fittin 010 (D4) S6510 E = 012 (D4) fittin F = 014 (D4) fittin	s 6512 6-M7-M -1/4 s 6510 8-1/4 gs 6512 10-1/4-M 10-3/8 gs 6510 12-3/8	BS = Ø6 (D1) Ø6 (D2) S6 CS = Ø8 (D2) 1 DS = Ø10 (D2 Ø10 S6510 ES = Ø12 (D4)	fittings 6512 6-M7-M 510 6-1/4 + 2921 1/4 "ittings S6510 8-1/4-) fittings 6512 10-1/4 10-3/8 + 2921 3/8 I fittings S6510 12-3/	+ silencers 2931 M7 + silencers 2931 M7 # M + silencers 2921 1/4 4-M + silencers 2921 1 78 + silencers 2931 3/8 8 + silencers 2931 3/8	externa are alre Ø4 (D2 4 Ø6 (D4 /4 3	eady equipped with fit Land D2) 6512 4 – M	ith connections from A to F tings on the pilot ports
	rectifier bridge 12	h the connector with 25-571-3, can be used the connectors at the	l for AC					

3/2-way pneumatically operated valve, monostable - size 10,5





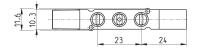


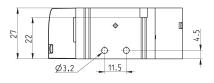
Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D1PVA-P0-T	NC	M7	M5	2.5 ÷ 10	-0.9 ÷ 10	200	VP01
D1PVA-Q0-T	NO	M7	M5	2.5 ÷ 10	-0.9 ÷ 10	200	VP01

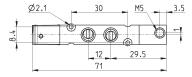
5/2-way pneumatically operated valve, monostable - size 10,5

۲		0
	DIPVA-MO-T	:

N.B. the pilot pressure should never be lower than the operating pressure.





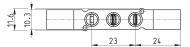


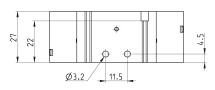


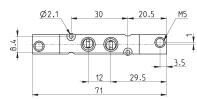
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
D1PVA-M0-T	M7	M5	2.5 ÷ 10	2.5 ÷ 10	270

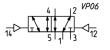
5/2-way operated actuated valve, bistable - size 10,5









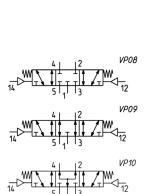


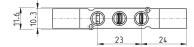
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
D1PVA-B0-T	M7	M5	1.5 ÷ 10	-0.9 ÷ 10	270

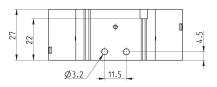
5/3-way pneumatically operated valve - size 10,5

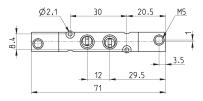
CC = Centres Closed CO = Centres Open CP = Centres Pressurized







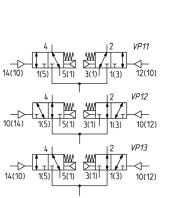


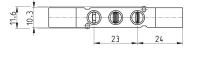


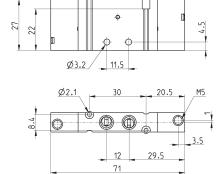
Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D1PVA-V0-T	CC	M7	M5	2.5 ÷ 10	-0.9 ÷ 10	250	VP08
D1PVA-K0-T	CO	M7	M5	2.5 ÷ 10	-0.9 ÷ 10	220	VP09
D1PVA-N0-T	СР	M7	M5	2.5 ÷ 10	-0.9 ÷ 10	220	VP10

2X3/2 -way pneumatically operated valve - size 10,5





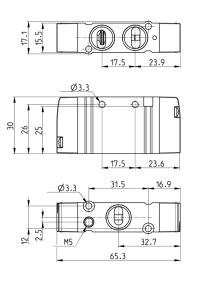




Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D1PVA-CO-T	NC	M7	M5	2.5 ÷ 10	-0.9 ÷ 10	250	VP11
D1PVA-A0-T	NO	M7	M5	2.5 ÷ 10	-0.9 ÷ 10	220	VP12
D1PVA-G0-T	NC+NO	M7	M5	2.5 ÷ 10	-0.9 ÷ 10	220	VP13

3/2-way pneumatically operated valve, monostable - size 16





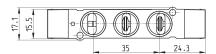
VP01 W 12(10) 1(3) 3(1)

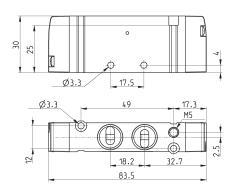
Mod.	Function	Ports	Pilot supply	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2PVA-P0-T	NC	G1/4	M5	-0.9 ÷ 10	950	VP01
D2PVA-Q0-T	NO	G1/4	M5	-0.9 ÷ 10	950	VP01

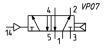
5/2-way pneumatically operated valve, monostable - size 16



N.B. the pilot pressure should never be lower than the operating pressure.



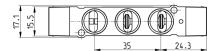


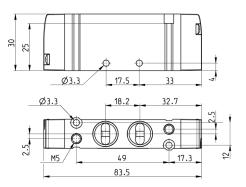


Mod.	Ports	Pilot supply	Operating pressure (bar)	Flow (Nl/min)
D2PVA-M0-T	G1/4	M5	3 ÷ 10	950

5/2-way pneumatically operated valve, bistable - size 16







VP06

Mod.	Ports	Pilot supply	Operating pressure (bar)	Flow (Nl/min)
D2PVA-B0-T	G1/4	М5	-0.9 ÷ 10	950

5/3-way pneumatically operated valve - size 16

w

14^D

14





VP08

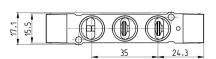
12

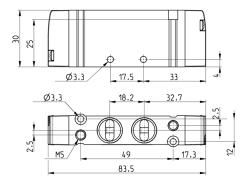
VP09

VP 10

⊲<u>_12</u>

W

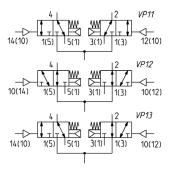


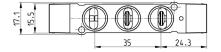


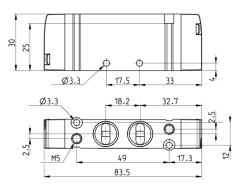
Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2PVA-V0-T	CC	G1/4	M5	1.5 ÷ 10	-0.9 ÷ 10	950	VP08
D2PVA-K0-T	CO	G1/4	M5	1.5 ÷ 10	-0.9 ÷ 10	950	VP09
D2PVA-N0-T	СР	G1/4	M5	1.5 ÷ 10	-0.9 ÷ 10	950	VP10

2X3/2 -way pneumatically operated valve - size 16







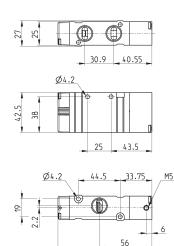


Mod.	Function	Ports	Pilot supply	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2PVA-C0-T	NC	G1/4	M5	-0.9 ÷ 10	950	VP11
D2PVA-A0-T	NO	G1/4	M5	-0.9 ÷ 10	950	VP12
D2PVA-G0-T	NC+NO	G1/4	M5	-0.9÷10	950	VP13

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3/2-way pneumatically operated valve, monostable - size 25





100

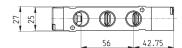
	2	VP01
12(10)		WW 3(1)

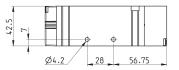
Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D4PVA-P0-T	NC	G3/8	M5	2.5 ÷ 10	-0.9 ÷ 10	1800	VP01
D4PVA-Q0-T	NO	G3/8	M5	2.5 ÷ 10	-0.9 ÷ 10	1800	VP01

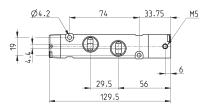
5/2-way pneumatically operated valve, monostable - size 25

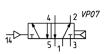


Note: the pilot pressure should never be lower than the operating pressure.





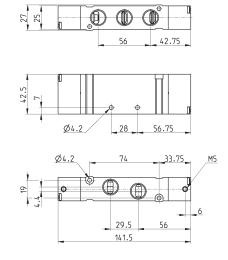




Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
D4PVA-M0-T	G3/8	M5	2.5 ÷ 10	2.5 ÷ 10	2000

5/2-way pneumatically operated valve, bistable - size 25





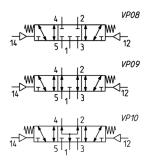


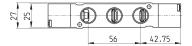
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)
D4PVA-B0-T	G3/8	M5	1.5 ÷ 10	-0.9 ÷ 10	2000

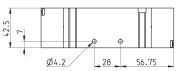
5/3-way pneumatically operated valve - size 25

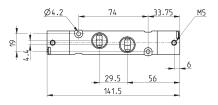
CC = Centres Closed CO = Centres Open CP = Centres Pressurized









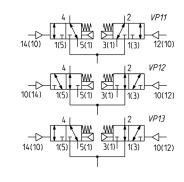


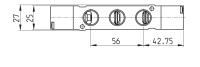
Mod.	Function	Dosts	Diletsupply	Dilat supply assesses (bas)	Operation prosture (bac)	Flow (NII /min)	Symbol
MOO.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D4PVA-V0-T	CC	G3/8	M5	2.5 ÷ 10	-0.9 ÷ 10	1800	VP08
D4PVA-K0-T	CO	G3/8	M5	2.5 ÷ 10	-0.9 ÷ 10	1800	VP09
D4PVA-N0-T	СР	G3/8	M5	2.5 ÷ 10	-0.9 ÷ 10	1800	VP10

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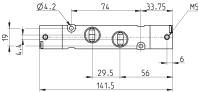
2X3/2-way pneumatically operated valve - size 25











Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D4PVA-C0-T	NC	G3/8	M5	3÷10	-0.7 ÷ 10	1800	VP11
D4PVA-A0-T	NO	G3/8	M5	3÷10	-0.7 ÷ 10	1800	VP12
D4PVA-G0-T	NO+NC	G3/8	M5	3÷10	-0.7 ÷ 10	1800	VP13

3/2-way solenoid valve, monostable - size 10,5



The indications given are valid for the versions D1EVA and D1CVA. The symbols of the versions with manual override type P are shown in the Appendix.

EV11

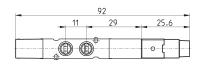
EV13

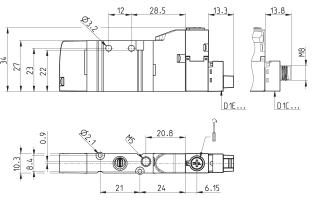
Connectors at the end of this section



EV 12







Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D1EVA-PR-T / D1CVA-PR-T	NC	M7	-	-	2.5 ÷ 7	200	EV10
D1EVA-PZR-T / D1CVA-PZR-T	NC	M7	M5	2.5 ÷ 7	-0.9 ÷ 10	200	EV11
D1EVA-QR-T / D1CVA-QR-T	NO	M7	-	-	2.5 ÷ 7	200	EV12
D1EVA-QZR-T - D1CVA-QZR-T	NO	M7	M5	2.5 ÷ 7	-0.9 ÷ 10	200	EV13

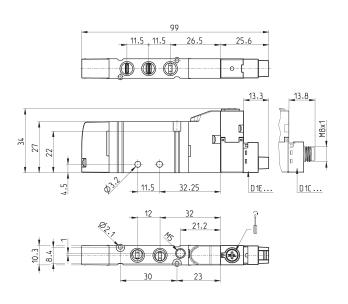


5/2-way solenoid valve, monostable - size 10,5

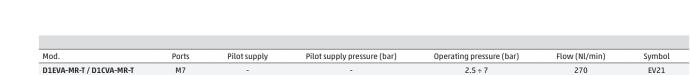


The indications given are valid for the versions D1EVA and D1CVA. The symbols of the versions with manual override type P are shown in the Appendix.

Connectors at the end of this section







2.5 ÷ 7

2 EV22

5/2-way solenoid valve, bistable - size 10,5

Μ7

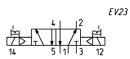


D1EVA-MZR-T / D1CVA-MZR-T

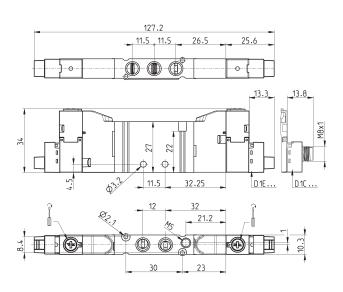
The indications given are valid for the versions D1EVA and D1CVA. The symbols of the versions with manual override type P are shown in the Appendix.

М5

Connectors at the end of this section







-0.9 ÷ 10

270

EV22

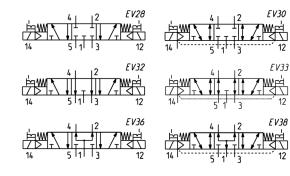
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D1EVA-BR-T / D1CVA-BR-T	D1EVA-BR-T / D1CVA-BR-T M7 -		-	1.5 ÷ 7	270	EV23
D1EVA-BZR-T / D1CVA-BZR-T	M7	M5	1.5 ÷ 7	-0.9 ÷ 10	270	EV26

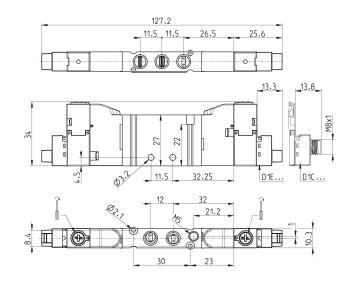
5/3 - way solenoid valve - size 10,5



CC = Centres Closed CO = Centres Open **CP = Centres Pressurized** The indications given are valid for the versions D1EVA and D1CVA. The symbols of the versions with manual override type P are shown in the Appendix.

Connectors at the end of this section





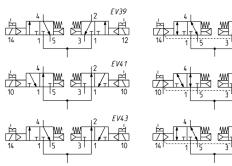
Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D1EVA-VR-T / D1CVA-VR-T	CC	M7	-	-	2.5 ÷ 7	250	EV28
D1EVA-VZR-T / D1CVA-VZR-T	CC	M7	M5	2.5 ÷ 7	-0.9 ÷ 10	250	EV30
D1EVA-KR-T / D1CVA-KR-T	CO	M7	-	-	2.5 ÷ 7	220	EV32
D1EVA-KZR-T / D1CVA-KZR-T	CO	M7	M5	2.5 ÷ 7	-0.9 ÷ 10	220	EV33
D1EVA-NR-T / D1CVA-NR-T	СР	M7	-	-	2.5 ÷ 7	220	EV36
D1EVA-NZR-T / D1CVA-NZR-T	СР	M7	M5	2.5 ÷ 7	-0.9 ÷ 10	220	EV38

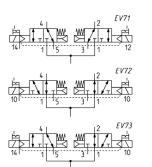
2x3/2-way solenoid valve - size 10,5

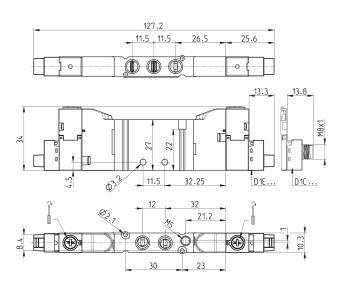


These solenoid valves integrate two independent 3/2-way functions in the same body. The indications given are valid for the versions D1EVA and D1CVA. The symbols of the versions with manual override type P are shown in the Appendix.

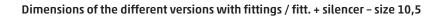
Connectors at the end of this section



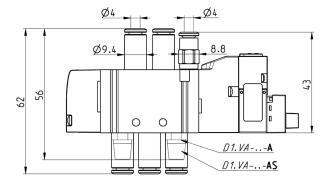




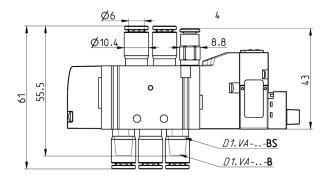
Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D1EVA-CR-T / D1CVA-CR-T	2 x 3/2 NC	M7	-	-	2.5 - 7	250	EV39
D1EVA-CZR-T / D1CVA-CZR-T	2 x 3/2 NC	M7	M5	2.5 - 7	-0.9 ÷ 10	250	EV71
D1EVA-AR-T / D1CVA-AR-T	2 x 3/2 NO	M7	-	-	2.5 - 7	220	EV41
D1EVA-AZR-T / D1CVA-AZR-T	2 x 3/2 N0	M7	M5	2.5 - 7	-0.9 ÷ 10	220	EV72
D1EVA-GR-T / D1CVA-GR-T	1 x 3/2 NC + 1 x 3/2 NO	M7	-	-	2.5 - 7	220	EV43
D1EVA-GZR-T / D1CVA-GZR-T	1 x 3/2 NC + 1 x 3/2 NO	M7	M5	2.5 - 7	-0.9 ÷ 10	220	EV73



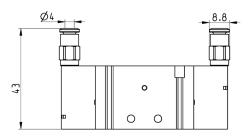
See coding at the beginning of this section The dimensions are also valid for pneumatically operated versions













Auto

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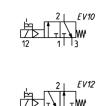
3/2-way solenoid valve, monostable - size 16

SOLENOID, PNEUMATIC AND MANIFOLD VALVES > SERIES D VALVES AND SOLENOID VALVES



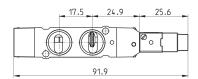
The indications given are valid for the versions D2EVA and D2CVA. The symbols of the versions with manual override type P are shown in the Appendix.

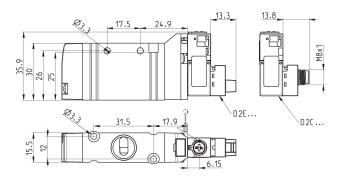
Connectors at the end of this section





EV11





Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2EVA-PR-T / D2CVA-PR-T	NC	G1/4	-	-	3 ÷ 7	950	EV10
D2EVA-PZR-T / D2CVA-PZR-T	NC	G1/4	M5	3 ÷ 7	-0.9 ÷ 10	950	EV11
D2EVA-QR-T / D2CVA-PR-T	NO	G1/4	-	-	3 ÷ 7	950	EV12
D2EVA-QZR-T / D2CVA-PZR-T	NO	G1/4	M5	3 ÷ 7	-0.9 ÷ 10	950	EV13

3/2-way solenoid valve, monostable - size 16



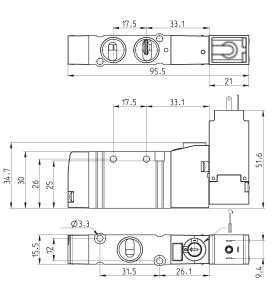
Connectors at the end of this section











Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D23VA-PR-T	NC	G1/4	-	-	3÷10	950	EV10
D23VA-PZR-T	NC	G1/4	M5	3÷10	-0.9 ÷ 10	950	EV11
D23VA-QR-T	NO	G1/4	-	-	3÷10	950	EV12
D23VA-QZR-T	NO	G1/4	M5	3÷10	-0.9 ÷ 10	950	EV13

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5/2-way solenoid valve, monostable - size 16

EV 18

2

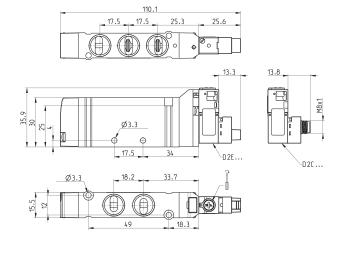


The indications given are valid for the versions D2EVA and D2CVA. The symbols of the versions with manual override type P are shown in the Appendix.

2 EV19

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Connectors at the end of this section

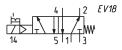


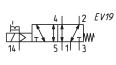
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2EVA-MR-T / D2CVA-MR-T	G1/4	-	-	3 ÷ 7	950	EV18
D2EVA-MZR-T / D2CVA-MZR-T	G1/4	M5	3 ÷ 7	-0.9 ÷ 10	950	EV19

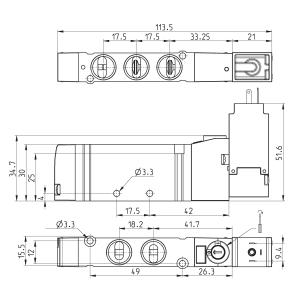
5/2-way solenoid valve, monostable with 15 mm coil - size 16



Connectors at the end of this section







Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D23VA-MR-T	G1/4	-	-	3 ÷ 10	950	EV18
D23VA-MZR-T	G1/4	M5	3÷10	-0.9 ÷ 10	950	EV19

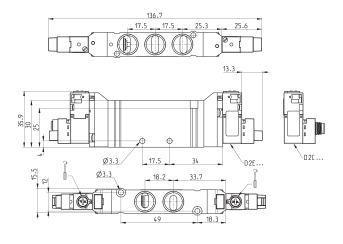
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com

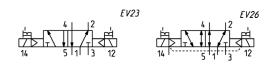
5/2-way solenoid valve, bistable - size 16



The indications given are valid for the versions D2EVA and D2CVA. The symbols of the versions with manual override type P are shown in the Appendix.

Connectors at the end of this section





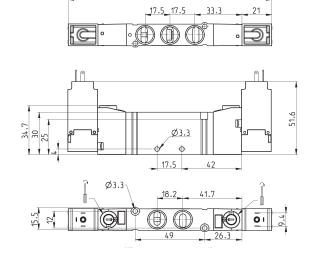
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2EVA-BR-T / D2CVA-BR-T	G1/4	-	-	1.5 ÷ 7	950	EV23
D2EVA-BZR-T / D2CVA-BZR-T	G1/4	M5	1.5 ÷ 7	-0.9 ÷ 10	950	EV26

5/2-way solenoid valve, bistable with 15 mm coil - size 16

EV23



Connectors at the end of this section



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Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D23VA-BR-T	G1/4	-	-	1.5 ÷ 10	950	EV23
D23VA-BZR-T	G1/4	M5	1.5 ÷ 10	-0.9 ÷ 10	950	EV26

EV26

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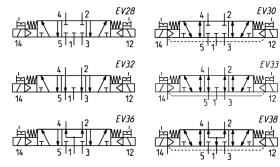


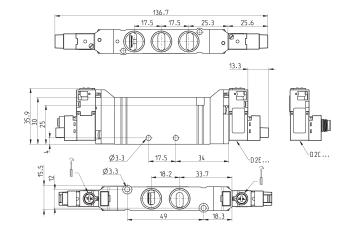
5/3 - way solenoid valve - size 16



CC = Centres Closed CO = Centres Open **CP = Centres Pressurized** The indications given are valid for the versions D2EVA and D2CVA. The symbols of the versions with manual override type P are shown in the Appendix.

Connectors at the end of this section





Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2EVA-VR-T / D2CVA-VR-T	CC	G1/4	-	-	1.5 ÷ 7	950	EV28
D2EVA-VZR-T / D2CVA-VZR-T	CC	G1/4	M5	1.5 ÷ 7	-0.9 ÷ 10	950	EV30
D2EVA-KR-T / D2CVA-KR-T	CO	G1/4	-	-	1.5 ÷ 7	950	EV32
D2EVA-KZR-T / D2CVA-KZR-T	CO	G1/4	M5	1.5 ÷ 7	-0.9 ÷ 10	950	EV33
D2EVA-NR-T / D2CVA-NR-T	СР	G1/4	-	-	1.5 ÷ 7	950	EV36
D2EVA-NZR-T / D2CVA-NZR-T	СР	G1/4	M5	1.5 ÷ 7	-0.9 ÷ 10	950	EV38

EV30 Wr

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EV33

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EV38

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5/3 - way solenoid valve with 15 mm coil - size 16

EV28

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EV32

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EV36

12

12

12

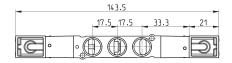
Connectors at the end of this

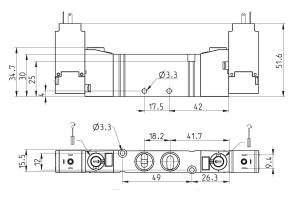
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CO = Centres Open CP = Centres Pressurized

CC = Centres Closed





Function Flow (Nl/min) Mod. Ports Pilot supply Pilot supply pressure (bar) Operating pressure (bar) Symbol D23VA-VR-T СС G1/4 1.5 ÷ 10 950 EV28 D23VA-VZR-T СС G1/4 M5 $1.5 \div 10$ -0.9 ÷ 10 950 EV30 D23VA-KR-T CO G1/4 1.5 ÷ 10 950 EV32 D23VA-KZR-T CO G1/4 М5 1.5 ÷ 10 -0.9 ÷ 10 950 EV33 950 D23VA-NR-T СР G1/4 1.5 ÷ 10 FV36 1.5 ÷ 10 D23VA-NZR-T СР G1/4 М5 -0.9 ÷ 10 950 EV38

2x3/2-way solenoid valve - size 16

These solenoid valves integrate two independent 3/2-way functions in the same body.

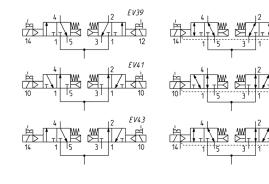
The indications given are valid for the versions D2EVA and D2CVA. The symbols of the versions with manual override type P are shown in the Appendix.

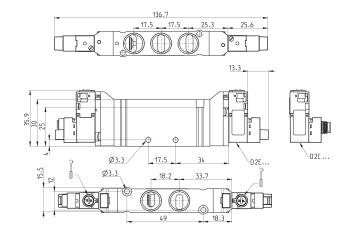
EV71

EV72

EV73

Connectors at the end of this section





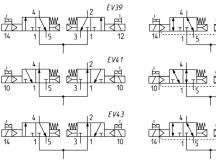
Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2EVA-CR-T / D2CVA-CR-T	2 x 3/2 NC	G1/4	-	-	1.5 ÷ 7	950	EV39
D2EVA-CZR-T / D2CVA-CZR-T	2 x 3/2 NC	G1/4	M5	1.5 ÷ 7	-0.9 ÷ 10	950	EV71
D2EVA-AR-T / D2CVA-AR-T	2 x 3/2 NO	G1/4	-	-	1.5 ÷ 7	950	EV41
D2EVA-AZR-T / D2CVA-AZR-T	2 x 3/2 N0	G1/4	M5	1.5 ÷ 7	-0.9 ÷ 10	950	EV72
D2EVA-GR-T / D2CVA-GR-T	1 x 3/2 NC + 1 x 3/2 NO	G1/4	-	-	1.5 ÷ 7	950	EV43
D2EVA-GZR-T / D2CVA-GZR-T	1 x 3/2 NC + 1 x 3/2 NO	G1/4	M5	1.5 - 7	-0.9 ÷ 10	220	EV73

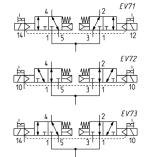
2x3/2-way solenoid valve with 15 mm coil - size 16

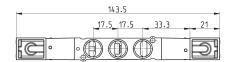


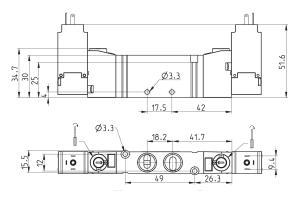
These solenoid valves integrate two independent 3/2-way functions in the same body. The symbols of the versions with manual override type P are shown in the Appendix.

Connectors at the end of this section

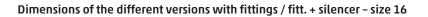




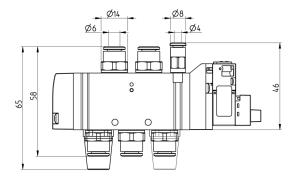


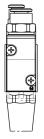


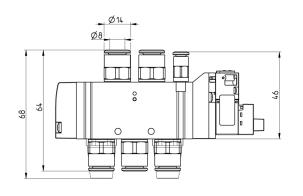
Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D23VA-CR-T	2 x 3/2 NC	G1/4	-	-	1.5 ÷ 10	950	EV39
D23VA-CZR-T	2 x 3/2 NC	G1/4	M5	1.5 ÷ 10	-0.9 ÷ 10	950	EV71
D23VA-AR-T	2 x 3/2 NO	G1/4	-	-	1.5 ÷ 10	950	EV41
D23VA-AZR-T	2 x 3/2 N0	G1/4	M5	1.5 ÷ 10	-0.9 ÷ 10	950	EV72
D23VA-GR-T	1 x 3/2 NC + 1 x 3/2 NO	G1/4	-	-	1.5 ÷ 10	950	EV43
D23VA-GZR-T	1 x 3/2 NC + 1 x 3/2 NO	G1/4	M5	1.5 ÷ 10	-0.9 ÷ 10	950	EV73

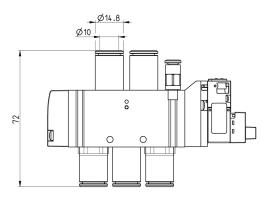


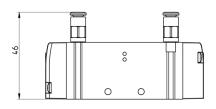
See coding table at the beginning of this section The dimensions are also valid for pneumatically operated versions

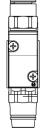


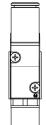












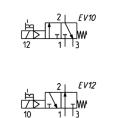


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3/2-way solenoid valve, monostable - size 25



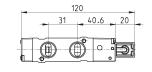
Connectors at the end of this section

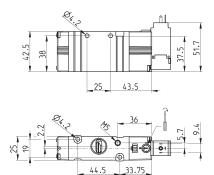




EV11





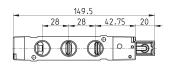


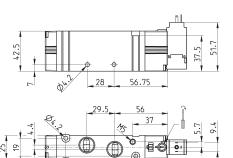
Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D43VA-PR-T	NC	G3/8	-	-	2.5 ÷ 10	1800	EV10
D43VA-PZR-T	NC	G3/8	M5	2.5 ÷ 10	-0.9 ÷ 10	1800	EV11
D43VA-QR-T	NO	G3/8	-	-	2.5 ÷ 10	1800	EV12
D43VA-QZR-T	NO	G3/8	M5	2.5 ÷ 10	-0.9 ÷ 10	1800	EV13

5/2-way solenoid valve, monostable - size 25



Connectors at the end of this section





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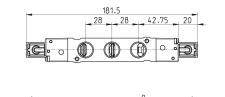


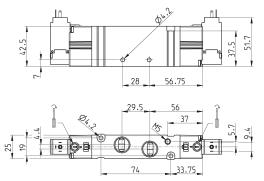
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D43VA-MR-T	G3/8	-	-	2.5 ÷ 10	2000	EV21
D43VA-MZR-T	G3/8	M5	2.5 ÷ 10	-0.9 ÷ 10	2000	EV22

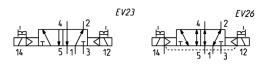
5/2-way solenoid valve, bistable - size 25



Connectors at the end of this section





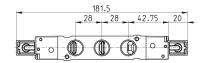


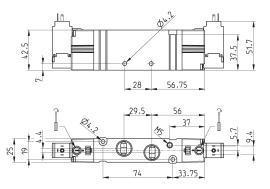
Mod.	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D43VA-BR-T	G3/8	-	-	1.5 ÷ 10	2000	EV23
D43VA-BZR-T	G3/8	M5	1.5 ÷ 10	-0.9 ÷ 10	2000	EV26

5/3-way solenoid valve – size 25

CC = Centres Closed CO = Centres Open CP = Centres Pressurized

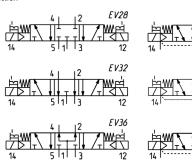


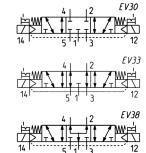




Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D43VA-VR-T	CC	G3/8	-	-	2.5 ÷ 10	1800	EV28
D43VA-VZR-T	CC	G3/8	M5	2.5 ÷ 10	-0.9 ÷ 10	1800	EV30
D43VA-KR-T	CO	G3/8	-	-	2.5 ÷ 10	1800	EV32
D43VA-KZR-T	CO	G3/8	M5	2.5 ÷ 10	-0.9 ÷ 10	1800	EV33
D43VA-NR-T	СР	G3/8	-	-	2.5 ÷ 10	1800	EV36
D43VA-NZR-T	СР	G3/8	M5	2.5 ÷ 10	-0.9 ÷ 10	1800	EV38

Connectors at the end of this section





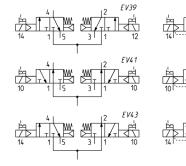
2x3/2-way solenoid valve - size 25

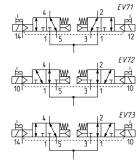


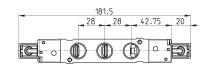
These solenoid valves integrate two indipendent 3/2-way functions in the same body.

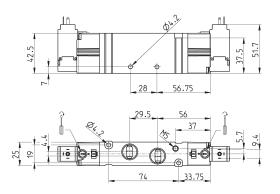
SOLENOID, PNEUMATIC AND MANIFOLD VALVES > SERIES D VALVES AND SOLENOID VALVES

Connectors at the end of this section





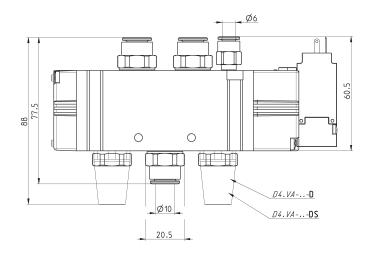




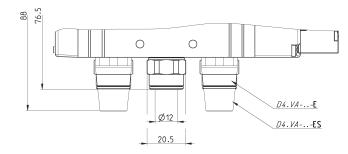
Mod.	Function	Ports	Pilot supply	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D43VA-CR-T	2 x 3/2 NC	G3/8	-	-	3.5 ÷ 10	1800	EV39
D43VA-CZR-T	2 x 3/2 NC	G3/8	M5	3.5 ÷ 10	-0.7 ÷ 10	1800	EV71
D43VA-AR-T	2 x 3/2 NO	G3/8	-	-	3.5 ÷ 10	1800	EV41
D43VA-AZR-T	2 x 3/2 N0	G3/8	M5	3.5 ÷ 10	-0.7 ÷ 10	1800	EV72
D43VA-GR-T	1 x 3/2 NC + 1 x 3/2 NO	G3/8	-	-	3.5 ÷ 10	1800	EV43
D43VA-GZR-T	1 x 3/2 NC + 1 x 3/2 NO	G3/8	M5	3.5 ÷ 10	-0.7 ÷ 10	1800	EV73



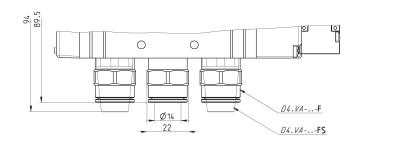
See coding table at the beginning of this section The dimensions are also valid for pneumatically operated versions







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CODING EXAMPLE

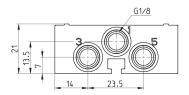
DC	Α	1	0	-	12
DC	SERIES				
Α	MANIFOLD: A = For type VA valves				
1	SIZE 1 = 10.5 mm 2 = 16 mm 4 = 25 mm				
0	BODY TYPE 0 = body for sub-base assembly				
12	N° OF POSITIONS: 2 3 4 16 17 (no D4) 18 (no D4) 19 (no D4)				

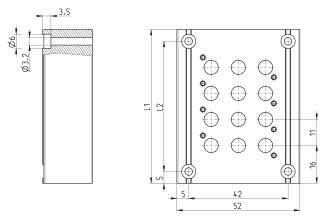


Manifolds for valves model VA, Size 10,5

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







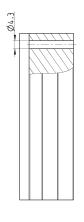
DIMENSIONS			
Mod.	Nr positions	L1	L2
DCA10-2	2	43	33
DCA10-3	3	54	44
DCA10-4	4	65	55
DCA10-5	5	76	66
DCA10-6	6	87	77
DCA10-7	7	98	88
DCA10-8	8	109	99
DCA10-9	9	120	110
DCA10-10	10	131	121
DCA10-11	11	142	132
DCA10-12	12	153	143
DCA10-13	13	164	154
DCA10-14	14	175	165
DCA10-15	15	186	176
DCA10-16	16	197	187
DCA10-17	17	208	198
DCA10-18	18	219	209
DCA10-19	19	230	220

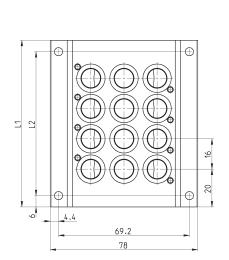
Manifolds for valves model VA, Size 16

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



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DIMENSIONS			
Mod.	Nr positions	L1	L2
DCA20-2	2	56	44
DCA20-3	3	72	60
DCA20-4	4	88	76
DCA20-5	5	104	92
DCA20-6	6	120	108
DCA20-7	7	136	124
DCA20-8	8	152	140
DCA20-9	9	168	156
DCA20-10	10	184	172
DCA20-11	11	200	188
DCA20-12	12	216	204
DCA20-13	13	232	220
DCA20-14	14	248	236
DCA20-15	15	264	252
DCA20-16	16	280	268
DCA20-17	17	296	284
DCA20-18	18	312	300
DCA20-19	19	328	316

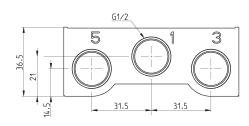
CAMOZZI Automation

SERIES D VALVES AND SOLENOID VALVES

Manifolds for valves model VA, Size 25

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







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	•	\bigcirc	\bigcirc	
	•	\bigcirc	\bigcirc	
L1 L2	•	\bigcirc		5
	•	\bigcirc	\oplus_{\bullet}	5 25.5
, <u> </u>	€) (Ð	24.5
¢.	30.5	<u>31.5</u> 92.5		+

DIMENSIONS			
Mod.	Nr positions	11	L2
DCA40-2	2	74.5	62.5
DCA40-3	3	100	88
DCA40-4	4	125.5	113.5
DCA40-5	5	151	139
DCA40-6	6	176.5	164.5
DCA40-7	7	202	190
DCA40-8	8	227.5	215.5
DCA40-9	9	253	241
DCA40-10	10	278	266.5
DCA40-11	11	304	292
DCA40-12	12	329.5	317.5
DCA40-13	13	355	343
DCA40-14	14	380.5	368.5
DCA40-15	15	406	394
DCA40-16	16	431.5	419.5



KIT CONTAINING SEAL + VALVE FIXING SCREWS







DCA40-K1

DCA10-K1

DCA20-K1

kit to be purchased in case of replacing L-X-Y with valve

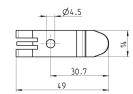
Mounting brackets for DIN rail

DIN EN 50022 (7,5mm x 35mm - width 1)



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





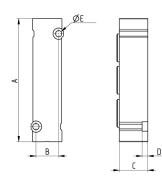
Mod. PCF-E531

Blanking plate for manifolds - free position L



The following is supplied: 1x plate 2x screws 1x seal.

(only for D1)



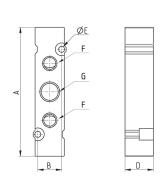
DIMENSIONS	5					
Mod.	Pitch	А	В	D	øЕ	C
D1AVA-L	10,5	45.5	8.4	5	2.1	10
D2AVA-L	16	65	12	3	3.3	15
D4AVA-L	25	92.5	19	5	4.2	20



Module X for additional supply and exhaust for size 10,5



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

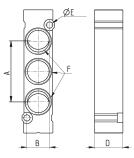


DIMENSION	s						
Mod.	Pitch	А	В	D	ø٤	F	G
D1AVA-X	10.5	45.5	8.4	10	2.1	M5	1/8

Module X for additional supply and exhaust for size 16



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

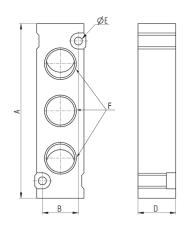


DIMENSION	S					
Mod.	Pitch	А	В	D	øЕ	F
D2AVA-X	16	65	12	15	3,3	G1/4

Module X for additional supply and exhaust for size 25



The following is supplied: 1x plate 2x screws 1x seal.



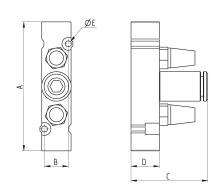
DIMENSIONS	5					
Mod.	Pitch	А	В	D	øЕ	F
D4AVA-X	25	92.5	19	20	4.2	G3/8



Module Y for additional supply and exhaust with silencer for size 10,5



The following is supplied: 1x plate 2x screws 1x seal. 2x silencers 2931 M5 1x fitting 6512 6-M7



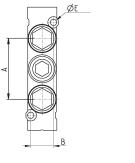
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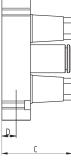
DIMENSIONS	;					
Mod.	Pitch	А	В	С	D	øE
D1AVA-Y	10.5	45.5	8.4	27	10	2.1

Module Y for additional supply and exhaust with silencer for size 16



The following is supplied: 1x plate 2x screws 1x seal. 2x silencers 2931 M5 1x fitting 6512 6-M7



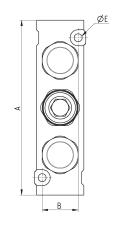


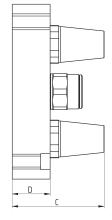
DIMENSIONS	5					
Mod.	Pitch	А	В	C	D	øE
D2AVA-Y	16	65	12	37	15	3,3

Module Y for additional supply and exhaust with silencer for size 25



The following is supplied: 1x plate 2x screws 1x seal. 2x silencers 2931 3/8 1x fitting 6512 12-3/8





DIMENSIONS	5					
Mod.	Pitch	А	В	C	D	øE
D4AVA-Y	25	92.5	19	48.5	20	4.2

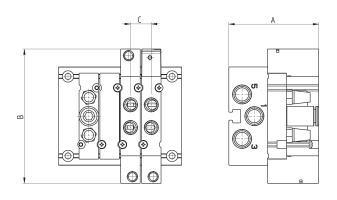
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CODING EXAMPLE MANIFOLD WITH VALVES AND FITTINGS

DC A 1	L E P - MBMXCVB -	3BX2AB -	CSL - R
DC	SERIES		
Α	MANIFOLD WITH VALVES A = For type VA valve		
1	SIZE/DIMENSION 1 = 10.5 mm 2 = 16 mm 4 = 25 mm		
E	ACTUATION E = Electric (D1 and D2) 3 = Electric with solenoid 15 mm (D2 and D4) C = Electric with M8 connector (D1 and D2) P = Pneumatic		
Р	TYPE OF MANUAL OVERRIDE P = push button (not for "3" actuation) R = with push and turn device O = without manual override (for "P" actuation)		
MBMXCVB	TYPE OF VALVE / SOLENOID VALVE M = 5/2 Monostable B = 5/2 Bistable $C = 2 \times 3/2$ NC $A = 2 \times 3/2$ NO $G = 2 \times 3/2$ (NC + NO) V = 5/3 CC X = 5/3 CO N = 5/3 CP L = Free position X = Additional supply and exhaust $Y = Additional supply and exhaust with silencer$	SOLENOID VALVE WITH EXTERNAL SERVO-PILOT SUPPLY MZ = 5/2 Monostable BZ = 5/2 Bistable $CZ = 2 \times 3/2$ NC $AZ = A = 2 \times 3/2$ NO $GZ = 2 \times 3/2$ (NC + NO) VZ = 5/3 CC KZ = 5/3 CO NZ = 5/3 CP	
3BX2AB	CONNECTIONS ON VALVE POSITIONS T = Thread A = $\emptyset 4$ (D1) Fittings 6512 4-M7-M B = $\emptyset 6$ (D1) Fittings 6512 6-M7-M C = $\emptyset 8$ (D2) Fittings 6510 8-1/4 D = $\emptyset 10$ (D2) Fittings 6512 10-1/4-M E = $\emptyset 12$ (D4) Fittings 56510 12-3/8 F = $\emptyset 14$ (D4) Fittings 56510 14-3/8 L = Free position X = Threaded plate Y = See code D1AVA-Y / D2AVA-Y / D4AVA-Y	(D2) 56510 6-1/4 (D4) 56510 10-3/8	The pneumatically operated solenoid valves with external servo-pilot supply with connections from A to F are already equipped with fittings on the pilot ports Ø4 (D1 and D2) 65124 - M5 Ø6 (D4) 65126 - M5
CSL	MANIFOLD CONNECTIONS T = Thread (on both sides) C = Fittings on connections 1;3;5 CS = Fittings Ø 8 - Silencer 2931 1/8 on supply + silencers on exhausts D = Fittings Ø 10 on connections 1;3;5 DS = Fittings Ø 12 on supply + silencers on exhausts E = Fittings Ø 12 on supply + silencers on exhausts F = Fittings Ø 14 on connections 1;3;5 FS = Fittings Ø 14 on supply + silencers on exhausts G = Fittings Ø 16 (D4), S6510 16-1/2 GS = Fittings Ø 16 on supply + silencers on exhausts CONNECTION SIDE = Both L = Fittings on the Left (right side covered) R = Fittings on the Right (left side covered)	(D1) 6512 8-1/8-M (D1) 6512 8-1/8-M + 2921 1/8 (D2) 56510 10-3/8 (D2) 56510 10-3/8 (D4) 56510 12-1/2 (D4) 56510 12-1/2 (D4) 56510 14-1/2 (D4) 56510 14-1/2 + 2921 1/2 (D4) 56510 16-1/2 (D4) 56510 16-1/2 + 2921 1/2	(D2) 56510 8-3/8 (D2) 56510 8-3/8 + 2921 3/8 (D4) 56510 10-1/2 (D4) 56510 10-1/2 + 2921 1/2
R	FIXING: = Direct R = Port for DIN rail (only for D1) In case of the same consecutive codes, group them and indicate the total quantity, for example: DCA1EP-MMMYCCVG-BBBYBAAA-CSL-R DCA1EP-3MY2CVG-3BYB3A-CSL-R VERSION 3, through the connector with rectifier bridge, can be used for AC applications. (see the connectors at the end of the section)		

Manifold with valves, outlets on the body - size 10,5

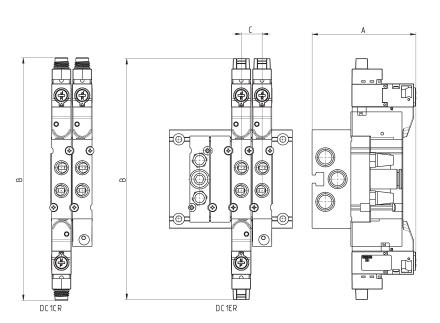




DIMENSIONS			
Mod.	А	В	C
DCA1PO	47.5	71	11

Manifold with solenoid valves, outlets on the body - size 10,5





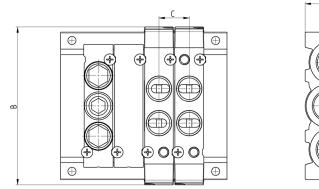
DIMENSIONS			
Mod.	А	В	С
DCA1ER	55	127.2	11
DCA1CR	55	128.2	11

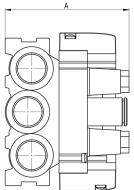
2.08.32 201



Manifold with valves, outlets on the body - size 16



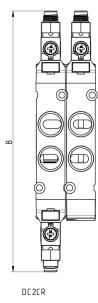


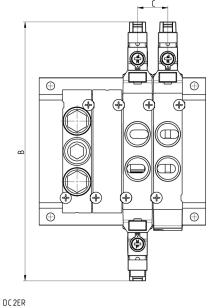


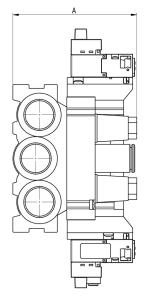
DIMENSIONS			
Mod.	А	В	C
DCA2PO	65,5	83,5	16

Manifold with solenoid valves, outlets on the body - size 16









 DIMENSIONS
 A
 B
 C

 Mod.
 A
 B
 C

 DCA2ER-.
 65.5
 136.7
 16

 DCA2CR-.
 65.5
 137.7
 16

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

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Manifold with solenoid valves, outlets on the body - size 16

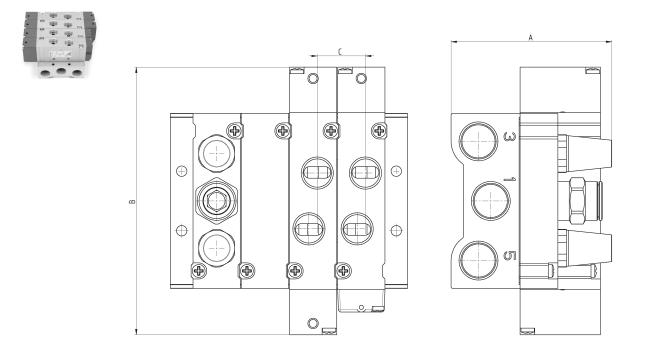


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DIMENSIONS			
Mod.	А	В	C
DCA23R	80.2	143.5	16



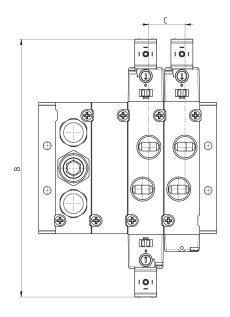
Manifold with valves, outlets on the body - size 25

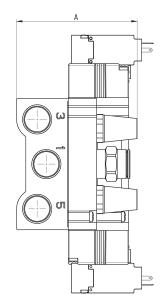


DIMENSIONS Mod. А В С 141.5 DCA4P0-. 85 25,5

Manifold with solenoid valves, outlets on the body - size 25



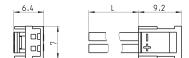




DIMENSIONS			
Mod.	А	В	C
DCA43R	85	181.5	25,5

Connector Mod. 121-8.. for "E" actuation





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
				F3

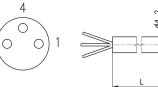
3-wire extension with M8 3-pin female connector for "C" actuation

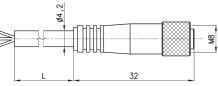


With PU sheathing, non shielded cable.

Protection class: IP65 1 BN = Brown +/-

4 BK = Black +/-3 BU = Blue NC





Mod.	L = cable length (m)
CS-2	2
CS-5	5
CS-10	10

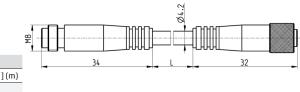
3

Extension with M8 connector, 3 pin male/female for "C" actuation

Non shielded





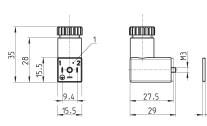


					-	34
Mod.	description	type of connector	connection	L [cable length] (m)		
CS-DW03HB-C250	moulded cable	straight	M8 3 pin male / female	2.5		
CS-DW03HB-C500	moulded cable	straight	M8 3 pin male / female	5		



Connector Mod. 125-... for "3" actuation



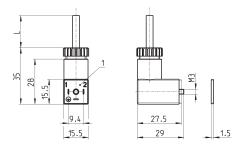


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Mod.	description	colour	working voltage	cable gland	tightening torque	
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm	
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm	1 = 90° adjustable connecto
125-800	connector, without electronics	black	-	PG7	0.3 Nm	

Connector Mod. 125-... for 3 actuation

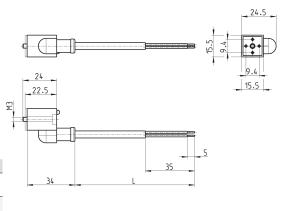




Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque	
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm	-
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm	1 = 90° adjustable connecto

In-line connectors with cable for 3 actuation





Mod.	description	colour	working voltage	cable length [L]	cable gland	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



Series D Solenoid valves VB version

2x3/2; 5/2; 5/3-way Manifold assembly Size 10,5 - 16 - 25 mm







Camozzi has developed a new series of valves for applications with limited installation space where it is necessary to have the control elements as close to the actuator as possible.

Thanks to the extreme robust aluminium body, the Series D valves guarantee maximum reliability even under difficult operating conditions.

- » Flow up to 2000 Nl/min
- » Aluminium body and technolpolymer end caps
- » Installation in narrow spaces
- » Electric connection also with M8 connector

GENERAL DATA

Valve construction	spool- type
Valve functions	2x3/2 NC/NO/NC+NO; 5/2; 5/3 CC/CO/CP
Materials	body, spool, bases = AL; end caps = technopolymer; seals = HNBR
Ambient temperature	0°C ÷ 50° C
Medium	compressed, filtered and non-lubricated air in class [7:4:4] according to ISO 8573-1:2010. In case lubrication should be necessary, only use oils with a maximum viscosity of 32 Cst and the version with external servo pilot. The air quality for the servo pilot should be of class [7:4:4] according to ISO 8573-1:2010
Voltage	24V DC
Voltage tolerance	±10%
Power consumption	1W
Class of insulation	class F
Protection class	IP65 with EN 175301 C connector ("3" actuation. Ex DIN 43650)* IP65 with M8 connector ("C" actuation)* IP40 with micro connector ("E" actuation)* *See coding example

SOLENOID VALVES VB VERSION

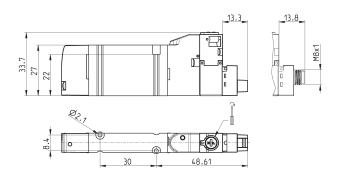
CODING EXAMPLE

D	1	E	VB	-	В	Р	
				1			
D	SERIES						
1	SIZE: 1 = 10,5 mm 2 = 16 mm 4 = 25 mm						
E	ACTUATION: E = electric (D1 and D2) 3 = electric 15 mm (D2 an C = electric with M8 conne						
VB	COMPONENT: VB = Valve with body for s	ub-base					
В	TYPE OF SOLENOID VALVE: M = 5/2 Monostable B = 5/2 Bistable $C = 2 \times 3/2$ NC $A = 2 \times 3/2$ NC $G = 2 \times 3/2$ (NC+NO) N = 5/3 CP V = 5/3 CC K = 5/3 CO						
Ρ	TYPE OF MANUAL OVERRID P = push button (not for D R = with push and turn de	4)					
	VERSION 3, through the co (see the connectors at the		125-571-3, can be used for AC ap	plications.			

5/2-way solenoid valve, monostable, outlets on subbase - size 10.5



The symbols of the versions with manual override type P are shown in the Appendix.



Connectors at the end of this section

	4	2	EV22
	1		
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Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D1EVB-MR / D1CVB-MR	2.5 ÷ 7	2.5 ÷ 10	300	EV22

5/2-way solenoid valve, bistable, outlets on subbase - size 10.5

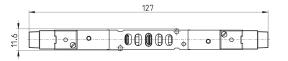


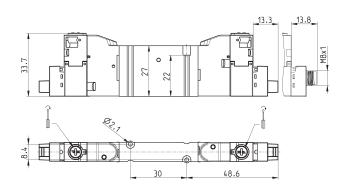
Connectors at the end of this

section

The symbols of the versions with manual override type P are shown in the Appendix.

EV26





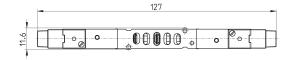
Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D1EVB-BR / D1CVB-BR	2.5 ÷ 7	2.5 ÷ 10	300	EV26



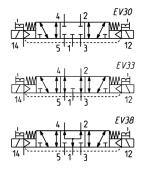
5/3-way solenoid valve, outlets on subbase - size 10.5

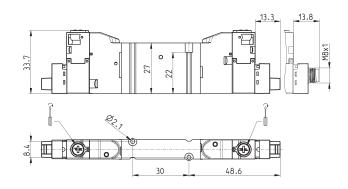


CC = Centres Closed CO = Centres Open CP = Centres Pressurized The symbols of the versions with manual override type P are shown in the Appendix.



Connectors at the end of this section





Mod.	Function	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D1EVB-VR / D1CVB-VR	CC	2.5 ÷ 7	2.5 ÷ 10	260	EV30
D1EVB-KR / D1CVB-KR	CO	2.5 ÷ 7	2.5 ÷ 10	260	EV33
D1EVB-NR / D1CVB-NR	СР	2.5 ÷ 7	2.5 ÷ 10	260	EV38

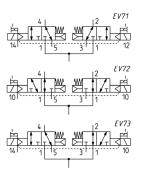
2x3/2-way solenoid valve, outlets on subbase - size 10.5

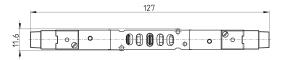


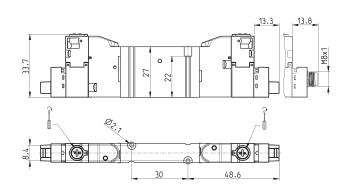
These solenoid valves integrate two 3/2-way functions in the same body.

The symbols of the versions with manual override type P are shown in the Appendix.

Connectors at the end of this section







Mod.	Function	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D1EVB-CR / D1CVB-CR	2 x 3/2 NC	2.5 ÷ 7	2.5 ÷ 10	280	EV71
D1EVB-AR / D1CVB-AR	2 x 3/2 NO	2.5 ÷ 7	2.5 ÷ 10	280	EV72
D1EVB-GR / D1CVB-GR	1 x 3/2 NC + 1 x 3/2 NO	2.5 ÷ 7	2.5 ÷ 10	280	EV73

SOLENOID VALVES VB VERSION

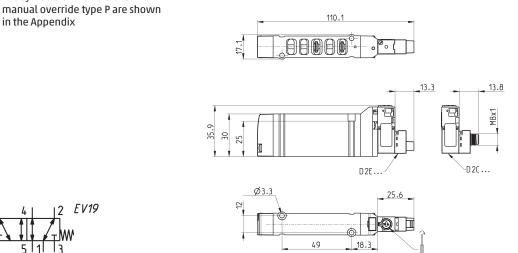
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com. SOLENOID VALVES VB VERSION

in the Appendix

5/2-way solenoid valve, monostable, outlets on subbase - size 16

The symbols of the versions with





Connectors at the end of this section

		4		2	EV 19
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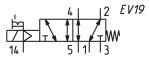
Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2EVB-MR / D2CVB-MR	3 ÷ 7	-0.9 ÷ 10	950	EV19

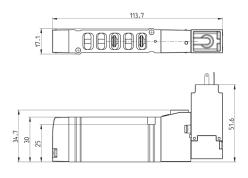
5/2-way solenoid valve, monostable, outlets on subbase with 15 mm coil - size 16

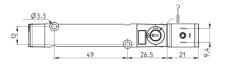


The symbols of the versions with manual override type P are shown in the Appendix

Connectors at the end of this section







Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D23VB-MR	3÷10	-0.9 ÷ 10	950	EV19

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SOLENOID VALVES VB VERSION

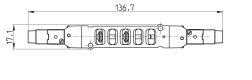
5/2-way solenoid valve, bistable, outlets on subbase - size 16

in the Appendix

The symbols of the versions with manual override type P are shown

EV26

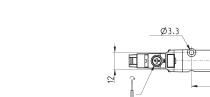




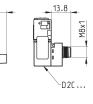
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Connectors at the end of this section



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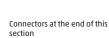


Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2EVB-BR / D2CVB-BR	1.5 ÷ 7	-0.9 ÷ 10	950	EV26

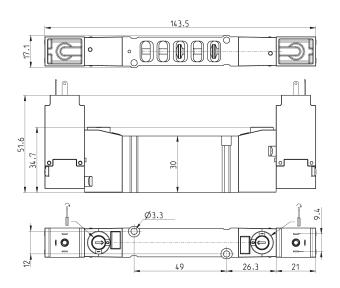
5/2-way solenoid valve, bistable, outlets on subbase with 15 mm coil - size 16



The symbols of the versions with manual override type P are shown in the Appendix







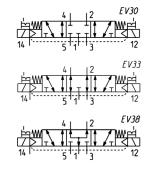
Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D23VB-BR	1.5 ÷ 10	-0.9 ÷ 10	950	EV26

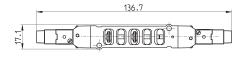
5/3-way solenoid valve, outlets on subbase - size 16

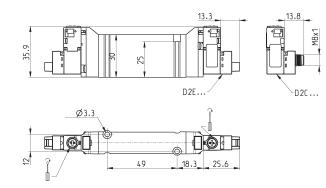


CC = Centres Closed CO = Centres Open CP = Centres Pressurized The indications given are valid for versions: D2EVB and D2CVB The symbols of the versions with manual override type P are available in the "appendix" section

Connectors at the end of this section





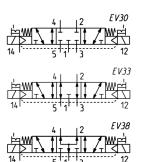


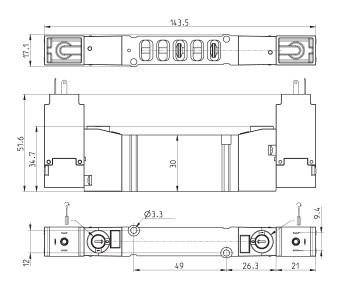
Mod.	Function	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2EVB-VR / D2CVB-VR	CC	1.5 ÷ 7	-0.9 ÷ 10	950	EV30
D2EVB-KR / D2CVB-KR	CO	1.5 ÷ 7	-0.9 ÷ 10	950	EV33
D2EVB-NR / D2CVB-NR	СР	1.5 ÷ 7	-0.9 ÷ 10	950	EV38

5/3-way solenoid valve, outlets on subbase with 15 mm coil - size 16



CC = Centres Closed CO = Centres Open CP = Centres Pressurized The symbols of the versions with manual override type P are available in the "appendix" section





Mod.	Function	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D23VB-VR	CC	1.5 ÷ 10	-0.9 ÷ 10	950	EV30
D23VB-KR	CO	1.5 ÷ 10	-0.9 ÷ 10	950	EV33
D23VB-NR	СР	1.5 ÷ 10	-0.9 ÷ 10	950	EV38

SOLENOID VALVES VB VERSION

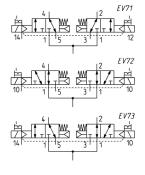
2x3/2-way solenoid valve, outlets on subbase - size 16

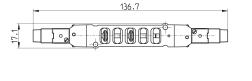
These solenoid valves integrate two 3/2-way functions in the same

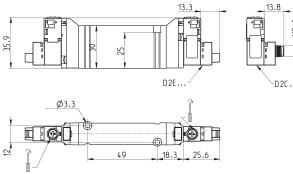


body. The symbols of the versions with manual override type P are shown in the Appendix.

Connectors at the end of this section









Mod.	Function	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D2EVB-CR / D2CVB-CR	2 x 3/2 NC	1.5 ÷ 7	-0.9 ÷ 10	950	EV71
D2EVB-AR / D2CVB-AR	2 x 3/2 NO	1.5 ÷ 7	-0.9 ÷ 10	950	EV72
D2EVB-GR / D2CVB-GR	1 x 3/2 NC + 1 x 3/2 NO	1.5 ÷ 7	-0.9 ÷ 10	950	EV73

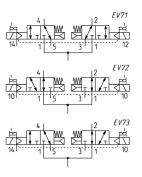
2x3/2-way solenoid valve, outlets on subbase with 15 mm coil - size 16

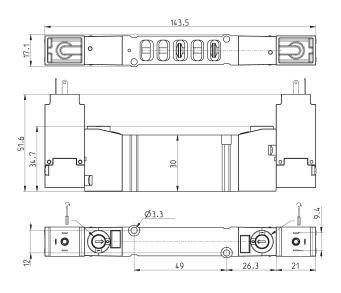


These solenoid valves integrate two 3/2-way functions in the same body. The symbols of the versions with

manual override type P are shown in the Appendix.

Connectors at the end of this section



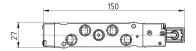


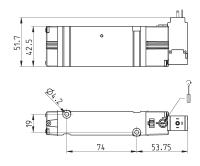
Mod.	Function	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D23VB-CR	2 x 3/2 NC	1.5 ÷ 10	-0.9 ÷ 10	950	EV71
D23VB-AR	2 x 3/2 NO	1.5 ÷ 10	-0.9 ÷ 10	950	EV72
D23VB-GR	1 x 3/2 NC + 1 x 3/2 NO	1.5 ÷ 10	-0.9 ÷ 10	950	EV73

SOLENOID VALVES VB VERSION

5/2-way solenoid valve, monostable, outlets on subbase - size 25







Connectors at the end of this section

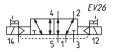


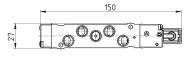
Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D43VB-MR	2.5 ÷ 10	2.5 ÷ 10	2000	EV22

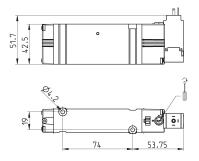
5/2-way solenoid valve, bistable, outlets on subbase - size 25



Connectors at the end of this section







Mod.	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D43VB-BR	2.5 ÷ 10	2.5 ÷ 10	2000	EV26

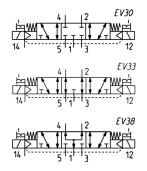
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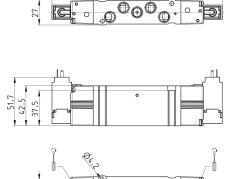
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5/3-way solenoid valve, outlets on subbase - size 25



Connectors at the end of this section





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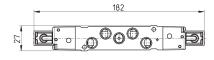
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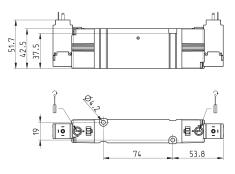
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Mod.	Function	Pilot supply pressure (bar)	Operating pressure (bar)	Flow (Nl/min)	Symbol
D43VB-VR	CC	2.5 ÷ 10	2.5 ÷ 10	1800	EV30
D43VB-KR	CO	2.5 ÷ 10	2.5 ÷ 10	1800	EV33
D43VB-NR	СР	2.5 ÷ 10	2.5 ÷ 10	1800	EV38

2x3/2-way solenoid valve, outlets on subbase - size 25

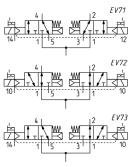
Solenoid valves available in versions with 2x3/2-way valves on the same valve body





Mod. Function Pilot supply pressure (bar) Operating pressure (bar) Flow (Nl/min) Symbol D43VB-CR 2x3/2NC 2.5 ÷ 10 2.5 ÷ 10 1800 EV71 D43VB-AR 1800 EV72 2x3/2N0 2.5 ÷ 10 2.5 ÷ 10 D43VB-GR 1 x 3/2 NC + 1 x 3/2 NO 2.5 ÷ 10 2.5 ÷ 10 1800 EV73

Connectors at the end of this section



CODING EXAMPLE

DC	В	1	0	-	12
DC	SERIES				
В	MANIFOLD: B = For type VB solenoid valves				
1	SIZE 1 = 10.5 mm 2 = 16 mm 4 = 25 mm				
0	SERVO-PILOT 0 = Kit included for internal/exterr	nal servo-pilot supply			
12	N° OF POSITIONS: 2 3 4 16 17 (no D4) 18 (no D4) 19 (no D4)				



Manifolds for solenoid valves model VB, Size 10,5



The Manifold package includes a closing cap and a spool to insert in position A, necessary to establish internal or external pilot supply. In the configuration with the cap only, pilot supply is established through connection 1, channels 12/14 must be closed.

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In the other variant with cap and spool, channels 1 and 12/14 are separated and must be supplied individually.

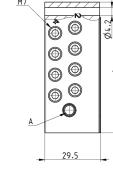
M7 Φ 15.4 \$ 0000 Ò \bigcirc Σ \bigcirc \bigcirc Φ Α

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<u>M7</u>



DIMENSIONS			
Mod.	Nr positions	L	11
DCB10-2	2	47	37
DCB10-3	3	58	48
DCB10-4	4	69	59
DCB10-5	5	80	70
DCB10-6	6	91	81
DCB10-7	7	102	92
DCB10-8	8	113	103
DCB10-9	9	124	114
DCB10-10	10	135	125
DCB10-11	11	146	136
DCB10-12	12	157	147
DCB10-13	13	168	158
DCB10-14	14	179	169
DCB10-15	15	190	180
DCB10-16	16	201	191
DCB10-17	17	212	202
DCB10-18	18	223	213
DCB10-19	19	234	224

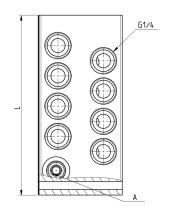
Manifolds for solenoid valves model VB, Size 16

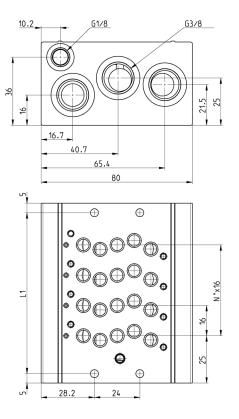


The Manifold package includes a closing cap and a spool to insert in position A, necessary to establish internal or external pilot supply. In the configuration with the cap only, pilot supply is established through connection 1, channels 12/14 must be closed.

In the other variant with cap and spool, channels 1 and 12/14 are separated and must be supplied individually.

Automation





DIMENSIONS			
Mod.	Nr positions	L	L1
DCB20-2	2	63	53
DCB20-3	3	79	69
DCB10-4	4	95	85
DCB20-5	5	111	101
DCB20-6	6	127	117
DCB20-7	7	143	133
DCB20-8	8	159	149
DCB20-9	9	175	165
DCB20-10	10	191	181
DCB20-11	11	207	197
DCB20-12	12	223	213
DCB20-13	13	239	229
DCB20-14	14	255	245
DCB20-15	15	271	261
DCB20-16	16	287	277
DCB20-17	17	303	293
DCB20-18	18	319	309
DCB20-19	19	335	325



Manifolds for solenoid valves model VB, Size 25

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The Manifold package includes a closing cap and a spool to insert in position A, necessary to establish internal or external pilot supply. In the configuration with the cap only, pilot supply is established through connection 1, channels 12/14 must be closed.

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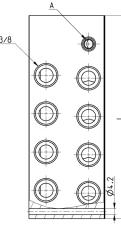
In the other variant with cap and spool, channels 1 and 12/14 are separated and must be supplied individually.

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DIMENSIONS			
Mod.	Nr positions	L	11
DCB40-2	2	89	79
DCB40-3	3	116	106
DCB40-4	4	143	133
DCB40-5	5	170	160
DCB40-6	6	197	187
DCB40-7	7	224	214
DCB40-8	8	251	241
DCB40-9	9	278	268
DCB40-10	10	305	295
DCB40-11	11	332	322
DCB40-12	12	359	349
DCB40-13	13	386	376
DCB40-14	14	413	403
DCB40-15	15	440	430
DCB40-16	16	467	457

CODING EXAMPLE MANIFOLD WITH SOLENOID VALVES AND FITTINGS

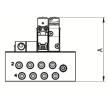
DC B 1	E R A - MBMXCVB - 3BX2AB - CSL - R
DC	SERIES
B	MANIFOLD WITH SOLENOID VALVES B = For type VB solenoid valve
1	SIZE 1 = 10.5 mm 2 = 16 mm 4 = 25 mm
E	ACTUATION E = Electric (D1 and D2) 3 = Electric 15 mm (D2 and D4) C = Electric with M8 connector (D1 and D2)
R	TYPE OF MANUAL OVERRIDE P = push button (not for 3 actuation) R = with push and turn device
А	SERVO-PILOT SUPPLY A = internal B = external
MBMXCVB	TYPE OF SOLENOID VALVE M = 5/2 Monostable B = 5/2 Bistable $C = 2 \times 3/2$ NC $A = 2 \times 3/2$ NO $G = 2 \times 3/2$ (NC + NO) V = 5/3 CC X = 5/3 CO N = 5/3 CP L= Free position X = Additional supply and exhaust Y = Additional supply and exhaust with silencer
3BX2AB	CONNECTIONS ON VALVE POSITIONS (OUTLETS 2 AND 4 ON MANIFOLD) T = Thread A = Ø4 (D1) Fittings 6512 4-M7-M B = Ø6 (D1) Fittings 6512 6-M7-M; (D2) 56510 6-1/4 C = Ø8 (D2) Fittings 6512 10 1/4-M; (D4) 56510 10-3/8 E = Ø12 (D4) Fittings 6512 10 1/4-M; (D4) 56510 10-3/8 E = Ø12 (D4) Fittings 56510 12-3/8 F = Ø14 (D4) Fittings 56510 12-3/8 L = Free position X = Threaded plate Y = See codes D1AVB-Y / D2AVB-Y / D4AVB-Y
CSL	MANIFOLD CONNECTIONS (supply and exhausts) T = Thread (on both sides) C = Fittings Ø8 on connections 1;3;5 (D1) 6512 8-1/8-M (D2) 56510 8-3/8 D = Fittings Ø10 on connections 1;3;5 (D2) 56510 10-3/8 (D4) 56510 10-1/2 D S = Fittings Ø10 on supply + silencers on exhausts (D2) 56510 10-3/8 (D4) 56510 10-1/2 D S = Fittings Ø12 on connections 1;3;5 (D4) 56510 10-3/8 (D4) 56510 10-1/2 E = Fittings Ø12 on connections 1;3;5 (D4) 56510 12-1/2 E E = Fittings Ø14 on connections 1;3;5 (D4) 56510 12-1/2 E F = Fittings Ø14 on supply + silencers on exhausts (D4) 56510 12-1/2 F F = Fittings Ø14 on supply + silencers on exhausts (D4) 56510 14-1/2 F F = Fittings Ø16 on connections 1;3;5 (D4) 56510 16-1/2 F G = Fittings Ø16 on supply + silencers on exhausts (D4) 56510 16-1/2 F G = Fittings Ø16 on supply + silencers on exhausts (D4) 56510 16-1/2 F F G = Fittings Ø16 on supply + silencers on exhausts (D4) 56510 16-1/2 F F G = Fittings Ø16 on supply + silencers on exhausts (D4) 56510 16-1/2 F F G = Fittings Ø16 on supply + silencers on exhausts (D4) 56510 16-1/2
R	FIXING: = Direct R = Port for DIN rail
	VERSION 3, through the connector with rectifier bridge, can be used for AC applications. (see the connectors at the end of the section)

SOLENOID VALVES VB VERSION

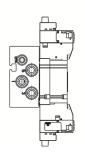
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Manifold with solenoid valves, outlets on subbase - size 10,5





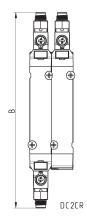
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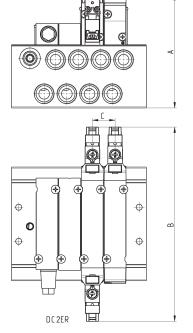


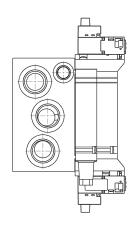
DIMENSIONS			
Mod.	А	В	C
DCB1ER	63	127.2	11
DCB1CR	63	128.2	11

Manifold with solenoid valves, outlets on base - size 16





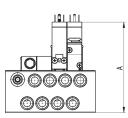


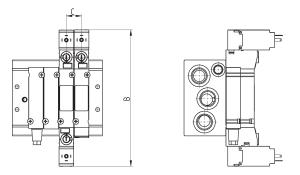


DIMENSIONS			
Mod.	А	В	C
DCB2ER	105	136.7	16
DCB2CR	105	137.7	16

Manifold with solenoid valves, outlets on base - size 16



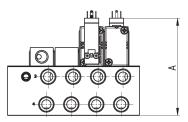


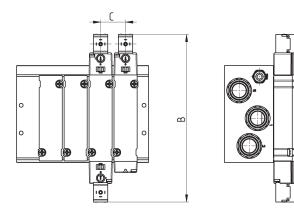


DIMENSIONS			
Mod.	А	В	C
DCB23R	105	181.5	16

Manifold with solenoid valves, outlets on base - size 25







DIMENSIONS			
Mod.	А	В	C
DCB43R	51.7	150	27

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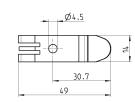
Mounting brackets for DIN rail

DIN EN 50022 (7,5mm x 35mm - width 1)



Supplied with: 2x plates 2x screws M4 UNI 5931 2x nuts (D2 and D4) 2x M4 UNI EN ISO 7089 (D2) washers



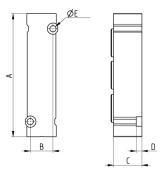


Mod.		
PCF-D1	(only for D1)	
PCF-D2	(only for D2)	
PCF-D4	(only for D4)	

Blanking plate for manifolds - free position L



The following is supplied: 1x plate 2x screws 1x seal.

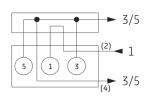


DIMENSIONS	5					
Mod.	Size	А	В	C	D	øE
D1AVA-L	10.5	45.5	8.4	10	5	2.1
D2AVB-L	16	65	12	15	3	3.3
D4AVA-L	25	92.5	19	20	5	4.2

Module X for additional supply and exhaust for size 10,5



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



В

8.4

С

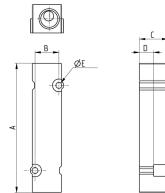
10

D

5

øЕ

2.1



N	
	Automation

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

Size

А

45

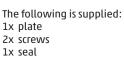
DIMENSIONS Mod.

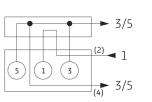
D1AVB-X

SOLENOID VALVES VB VERSION

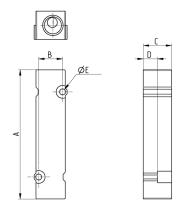
Module X for additional supply and exhaust for size 16







_øE 3,3

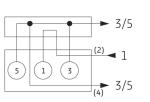


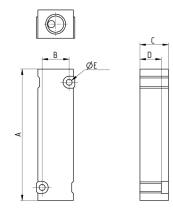
DIMENSIONS	5					
Mod.	Size	А	В	С	D	
D2AVB-X	16	65	12	15	12	

Module X for additional supply and exhaust for size 25



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



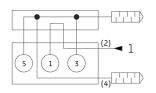


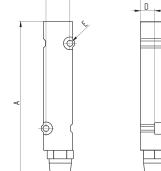
DIMENSIONS	5					
Mod.	Size	А	В	C	D	øE
D4AVB-X	25	65	19	20	15	4.2

Module Y for additional supply and exhaust with silencer for size 10,5



The following is supplied: 1x plate 2x screws 1x seal 2x silencers 2931 M7 1x fitting 6512 6-M7-M





В

DIMENSIONS						
Mod.	Size	А	В	С	D	ø٤
D1AVB-Y	10.5	57	8.4	10	5	2.1

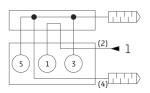
C

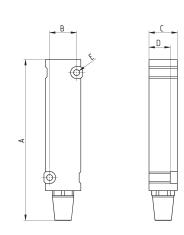


Module Y for additional supply and exhaust with silencer for size 16



The following is supplied: 1x plate 2x screws 1x seal 1x silencers 2931 1/4 1x silencers 2931 1/4 1x fitting 6512 1/4



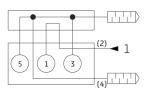


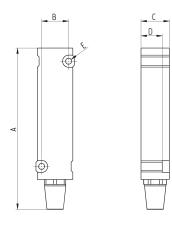
DIMENSIONS	5					
Mod.	Size	А	В	С	D	øE
D2AVB-Y	16	81,4	12	15	12	3.3

Module Y for additional supply and exhaust with silencer for size 25



The following is supplied: 1x plate 2x screws 1x seal. 1x silencer 2931 1/4 1x silencer 2931 3/8 1x fitting 6512 12-3/8





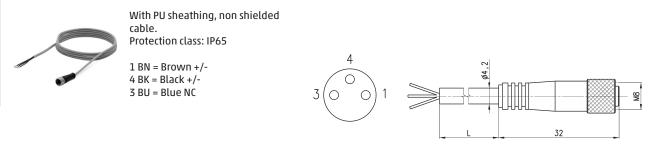
DIMENSIONS	5					
Mod.	Size	A	В	С	D	"Е
D4AVB-Y	25	113,5	19	20	15	4.2

Connector Mod. 121-8..



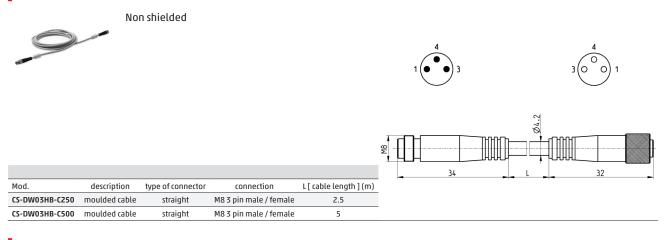
description	colour	L = cable length (mm)	cable holding
crimped cable	black	300	crimping
crimped cable	black	600	crimping
crimped cable	black	1000	crimping
crimped cable	black	3000	crimping
	crimped cable crimped cable crimped cable	crimped cable black crimped cable black crimped cable black	crimped cable black 300 crimped cable black 600 crimped cable black 1000

3-wire extension with M8 3-pin female connector for "C" actuation



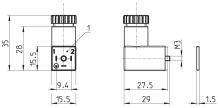
Mod.	L = cable length (m)	
CS-2	2	
CS-5	5	
CS-10	10	

Extension with M8 connector, 3 pin male/female for "C" actuation



Connector Mod. 125-... for "3" actuation





Mod.	description	colour	working voltage	cable gland	tightening torque	_
125-601	connector, diode + Led	transparent	10/50 V DC	PG7	0.3 Nm	
125-701	connector, varistor + Led	transparent	24 V AC/DC	PG7	0.3 Nm	. 1
125-800	connector, without electronics	black	-	PG7	0.3 Nm	

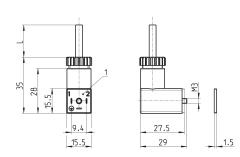
1 = 90° adjustable connector





Connector Mod. 125-... pitch 9.4 mm with cable for "C" actuation

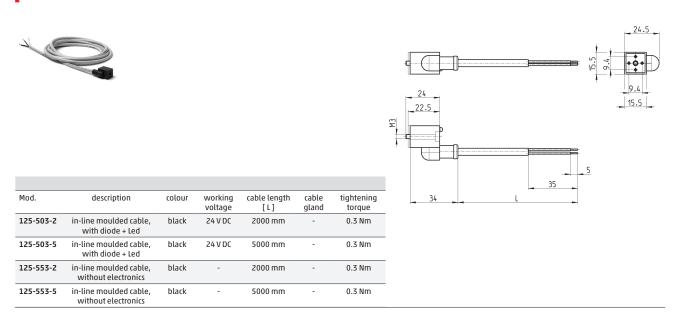




Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque
125-501-2	moulded cable with diode + Led	black	10/50 V DC	2000 mm	-	0.3 Nm
125-550-1	moulded cable, without electronics	black	-	1000 mm	-	0.3 Nm

1 = 90° adjustable connector

In-line connectors with cable for "E" actuation



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

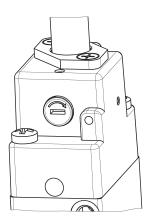
Construction	spool - type
Valve group	2x3/2 - 3/2 - 5/2 - 5/3-way CC CO CP
Materials	AL body, stainless steel spool, NBR seals
Ports	G1/8 - G1/4
Installation	in any position
Operating temperature	0 ÷ 60°C (with dry air at -20°C)
Operating pressure	see tables
Fluid	filtered air, without lubrication. If lubricated air is used, it is recommended to use ISOVG32 oil. Once applied the lubrication should never be interrupted.

SERIES 3 VALVES AND SOLENOID VALVES

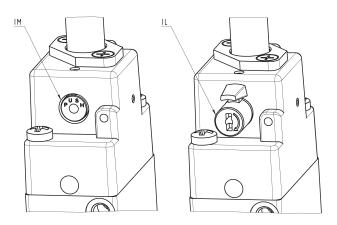
CODING EXAMPLE

3	3	8	D	-	015	-	02	IL	-	U7	7
3	SERIES										
3	3 = 3/2 4 = 3/2 5 = 5/2 6 = 5/3 (7 = 5/3 (8 = 5/3 (NO CC CO									
8	PORTS: 8 = G1/8 4 = G1/4										
D		dard ble valve 2x3/	/2 nbly (only for sole	noid valves 3/2	with G1/8 ports)						
015	015 = sin 016 = sin E11 = do E15 = sin 033 = pr	ouble solenoio ngle solenoid ngle solenoid ouble solenoio	, spring return , pneumatic spring d external servo-co , external servo-co umatic	ommand							
02		ID INTERFACE: ch. sol. 22 x 2	2								
IL	= bista IL = bist										
U7	A8 = PPS G7 = PA G8 = PA G9 = PA H8 = PA	ULATING MATEI 5 / 30 x 30 / 22 x 22 / 30 x 30 (24 V / 22 x 58 6 V0 / 30 x 30 Г / 22 x 22		MENSIONS:							
7	SOLENO	ID VOLTAGE (se	e the dedicated s	ection 2.35)							

TYPES OF MANUAL OVERRIDE



Example of solenoid valve with a bistable standard manual override.

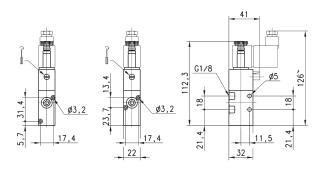


Example of solenoid monostable valve (IM) and bistable valve with a lever type manual override (IL).

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. *Side fixing holes not present





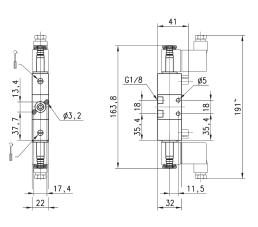


Mod.	Mounting	Function	Flow rate (Nl/min)	Operating pressure (bar)	Symbol
338-015-02	in-line	3/2 NC	700	2,5 ÷ 10	EV10
338L-015-02*	on manifold	3/2 NC	700	2,5 ÷ 10	EV10
348-015-02	in-line	3/2 NO	700	2,5 ÷ 10	EV12
348L-015-02	on manifold	3/2 NO	700	2,5 ÷ 10	EV12
338L-015-02IL*	in-line	3/2 NC	700	2,5 ÷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



EV14

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

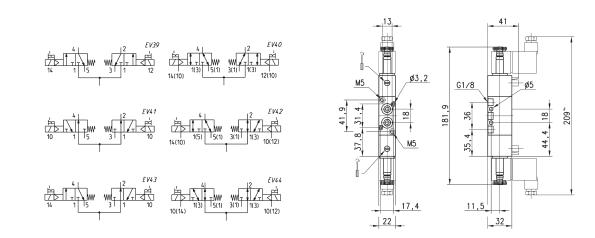
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2 x 3/2-way solenoid valve, G1/8 - Mod. 338D..., 348D... e 398D...



These solenoid valves are available in versions with $2 \times 3/2$ 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

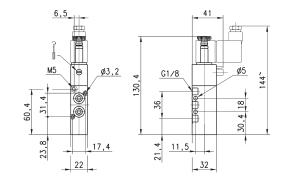
5/2-way solenoid valve, G1/8, monostable - Mod. 358...



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
358-015-02IL	5/2	700	2,5 ÷ 10	-	EV18
358-015-02EX	5/2	700	2,5 ÷ 10	-	EV18

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

SOLENOID, PNEUMATIC AND MANIFOLD VALVES > SERIES 3 VALVES AND SOLENOID VALVES

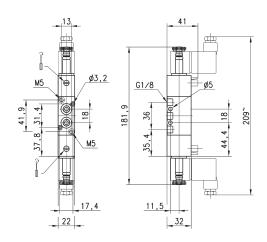


These solenoid valves with electropneumatic actuation and return are suitable for controlling double-acting cylinders.

et.

EV23



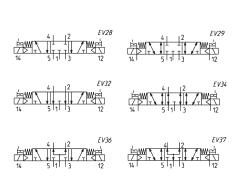


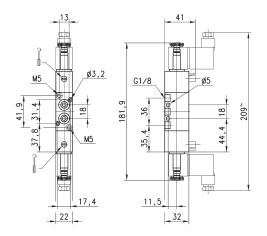
Mod.	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
358-011-02	5/2	700	1,5 ÷ 10	-	EV23
358-E11-02	5/2	700	-0,9 ÷ 10	1,5 ÷ 10	EV25
358-011-02IL	5/2	700	1,5÷10	-	EV23

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

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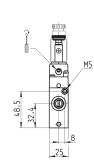
3/2-way solenoid valve, G1/4, monostable - Mod. 334... Mod 344...

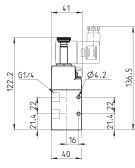


These solenoid valves, which have electropneumatic actuation and spring return, are available in the NC (closed) or NO (open) version.







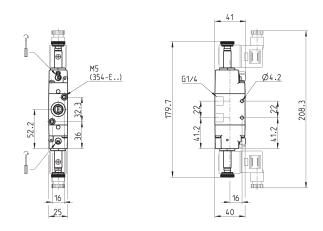


Mod.	Mounting	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
334-015-02	in-line	3/2 NC	1300	2.5 ÷ 10	-	EV10
334-E15-02	in-line	3/2 NC	1300	-0.9 ÷ 10	2.5 ÷ 10	EV11
344-015-02	in-line	3/2 NO	1300	2.5 ÷ 10	-	EV12
344-E15-02	in-line	3/2 NO	1300	-0.9 ÷10	2.5 ÷ 10	EV13

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.

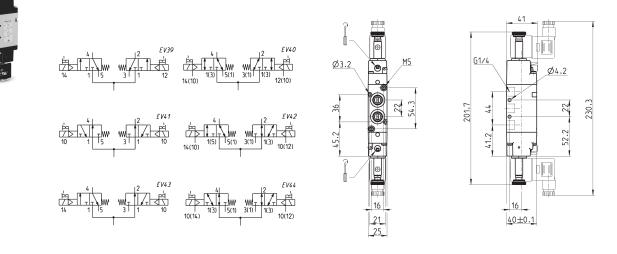


Mod.	Mounting	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
334-011-02	in-line	3/2	1300	1.5 ÷ 10	-	EV14
334-E11-02	in-line	3/2	1300	1.5 ÷ 10	2.5 ÷ 10	EV15

SERIES 3 VALVES AND SOLENOID VALVES

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

These solenoid values are available in versions with $2 \times 3/2$ values in the same value.



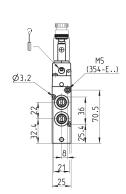
Mod.	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
334D-015-02	2 x 3/2 NC	1200	2,5 ÷ 10	-	EV39
344D-015-02	2 x 3/2 NO	1050	2,5 ÷ 10	-	EV41
334D-E15-02	2 x 3/2 NC	1200	-0,9 ÷ 10	2,5 ÷ 10	EV40
344D-E15-02	2 x 3/2 NO	1050	-0,9 ÷ 10	2,5 ÷ 10	EV44
394D-015-02	1 x 3/2 NC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

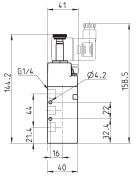
5/2-way solenoid valve, G1/4, monostable - Mod. 354...



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



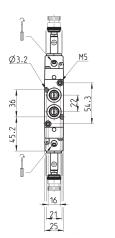
5/2-way solenoid valve, G1/4, bistable - Mod. 354...

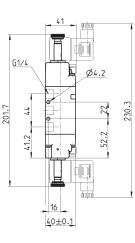


These solenoid valves, which have electropneumatic actuation and spring return, are suitable for operating double-acting cylinders.

EV23 Æ





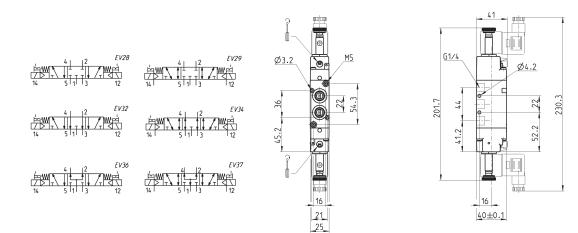


Mod.	Function	Flow rate (Nl/min)	Operating pressure (bar)	Pilot pressure (bar)	Symbol
354-011-02	5/2	1300	1,5 ÷ 10	-	EV23
354-E11-02	5/2	1300	-0,9 ÷ 10	2,5 ÷ 10	EV25

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



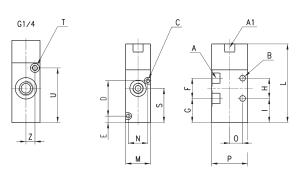
CC = Centres Closed CO = Centres Open CP = Pressure Centres



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

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



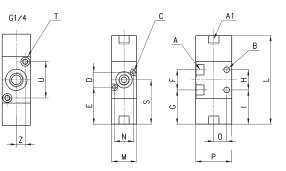




DIMENSION	۱S																							
Mod.	Mounting	Function F	low rate (Nl/min)	Min. pilot press. (bar)	Working press. (bar)	Α	A1	В	С	D	Е	F	G	Н	Т	L	М	Ν	0	Р	S	Т	U	Z
338-035	in-line	3/2 NC	700	2.5	-0.9 ÷ 10	G1/8	G1/8	53	i.2	-	5.7	18 2	21.4	18 2	21.4	69.8	22	-	11.5	32	30.4	-	-	-
338L-035	on manifold	3/2 NC	700	2.5	-0.9 ÷ 10	G1/8	G1/8	- 3	.2 3	1.4	5.7	18 2	21.4	- 2	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 2	21.4	22 2	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)		
12(10)	1(3)	3(1) (0(12)

DIMENSION	٧S																							
Mod.	Mounting	Function	Flow rate (Nl/min)	Min. pilot press. (bar)	Working press. (bar)	А	A1	В	С	D	Е	F	G	Н	Т	L	М	Ν	0	Р	S	Т	U	Ζ
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 1	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	M5	32.3	8

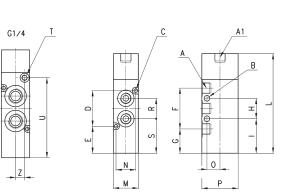


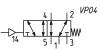
SERIES 3 VALVES AND SOLENOID VALVES

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



In-line or manifold mounting



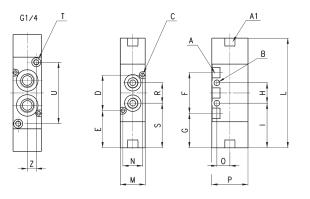


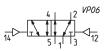
DIMENSIO	NS																						
Mod.	Function	Flow rate (Nl/min)	min pilot press. (bar)	Working press. (bar)	А	A1	В	С	D	Е	F	G	Н	I	L	М	Ν	0	Р	S	Т	U	Z
358-035	5/2	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	23,8	36	21,4	18	30,4	87,8	22	17,4	11,5	32	30,4	-	-	-
354-035	5/2	1300	3	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	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





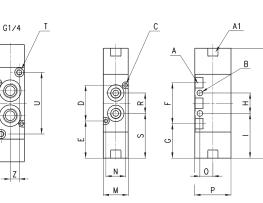
DIMENSIO	NS																						
Mod.	Function	Flow rate (Nl/min)	min. pilot pressure (bar)	Working pressure (bar)	Α	A1	В	С	D	Е	F	G	Н	T	L	М	Ν	0	Р	S	Т	U	Z
358-033	5/2	700	1,5	-0,9÷10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	-
354-033	5/2	1300	2,5	-0,9÷10	G1/4		4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	38

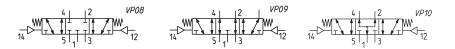
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com.

5/3-way valve, G1/8 or G1/4



In-line or manifold mounting



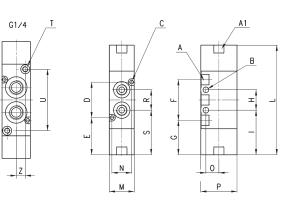


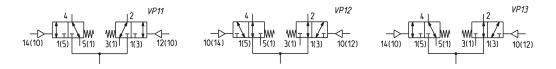
DIMENSIONS Function Flow rate (Nl/min) Min. pilot pr. (bar) Working pr. (bar) Mod. А A1 В С D Е F G Н Т L М Ν 0 Ρ S Т U Z Svmb. 368-033 5/3 CC 700 2,5 -0,9 ÷ 10 G1/8 G1/8 5 3,2 31,4 32,8 36 30,4 18 39,4 96,8 22 17,4 11,5 32 39,4 - VP08 -364-033 5/3 CC 1200 2,5 -0,9 ÷ 10 G1/4 4,1 3,2 36 33,7 44 29,7 22 40,7 103,3 25 21 16 40 40,7 M5 54,3 8 VP08 G1/8 G1/8 5 3,2 31,4 32,8 36 30,4 18 39,4 378-033 5/3 CO 700 2,5 -0,9÷10 96,8 22 17,4 11,5 32 39,4 --- VP09 374-033 5/3 CO 1050 2,5 -0,9 ÷ 10 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 G1/4 388-033 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





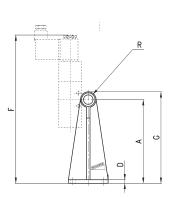
DIMENSION	15																							
Mod.	Function	Flow rate (Nl/min)	min. pilot pr. (bar)	Working pr. (bar)	А	A1	В	С	D	Е	F	G	Н	I	L	М	Ν	0	Р	S	Т	U	ZS	ymb.
338D-035	2x3/2 NC	700	2,5	-0,9 ÷ 10	G1/8	G1/8	5	3,2	31,4	32,8	36	30,4	18	39,4	96,8	22	17,4	11,5	32	39,4	-	-	- V	/P11
334D-035	2x3/2 NC	1050	2,5	-0,9 ÷ 10	G1/4	-	4,1	3,2	36	33,7	44	29,7	22	40,7	103,3	25	21	16	40	40,7	M5	54,3	8 V	/P11
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	-	-	- V	/P12
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 V	/P12
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	-	-	- V	/P13
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 V	/P13

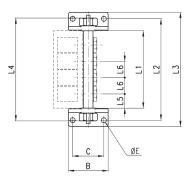


Manifold bars with separate exhausts (low version)



The following is supplied: 2x feet 1x manifold 1x inlet fitting 1x plug 4x washers





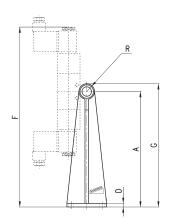
DIMENSION	S															
Mod.	Nr of valves	А	В	С	D	ØE	F	G	R	L1	L2	L3	L4	L5	L6	Suitable for Series
CNV-318-2	2	73	56	44	5	7	178	83	G1/4	63	97	115	99	20	23	3 - G1/8
CNV-318-3	3	73	56	44	5	7	178	83	G1/4	86	120	138	119	20	23	3-G1/8
CNV-318-4	4	73	56	44	5	7	178	83	G1/4	109	143	161	142	20	23	3 - G1/8
CNV-318-5	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

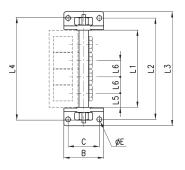
The fixing screws of the valves Mod. 1631 01-1/8 must be ordered separately.

Manifold bars with separate exhausts (high version)



The following is supplied: 2x feet 1x manifold 1x inlet fitting 1x plug 4x washers





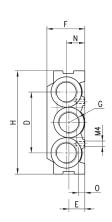
DIMENSION	S															
Mod.	Nr of valves	Α	В	С	D	ØE	F	G	R	ι1	L2	L3	L4	L5	L6	Suitable for Series
CNV-328-2	2	118	56	44	5	7	223	128	G1/4	63	97	115	99	20	23	3-G1/8
CNV-328-3	3	118	56	44	5	7	223	128	G1/4	86	120	138	119	20	23	3-G1/8
CNV-328-4	4	118	56	44	5	7	223	128	G1/4	109	143	161	142	20	23	3-G1/8
CNV-328-5	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

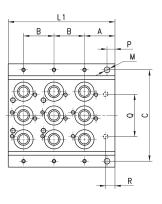
The fixing screws of the valves Mod. 1631 01-1/8 must be ordered separately. SERIES 3 VALVES AND SOLENOID VALVES

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



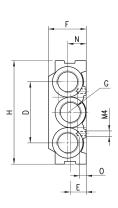


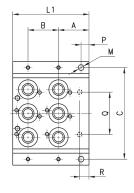
DIMENSION	IS															
Mod.	Α	В	С	D	E	F	Н	L1	М	Ν	0	Р	Q	R	G	CNVL-3H3: for Series 3. G1/8
CNVL-3H3	23	23	69,2	46	12	29	78	80,5	4,3	14	5	6	32	7	3/8	CNVL-4H3: for Series 3, G1/4
CNVL-4H3	26	26	88	60	14	29	98	91	4,3	-	5	5	38	7	1/2	

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



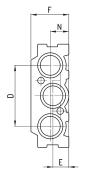


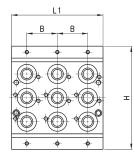
DIMENSION	S															
Mod.	А	В	С	D	Е	F	Н	L1	М	Ν	0	Р	Q	R	G	CNVL-3H2: for Series 3, G1/8
CNVL-3H2	23	23	69,2	46	12	29	78	57,5	4,3	14	5	6	32	7	3/8	CNVL-4H2: for Series 3, G1/4
CNVL-4H2	26	26	88	60	14	29	98	65	4,3	-	5	5	38	7	1/2	

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

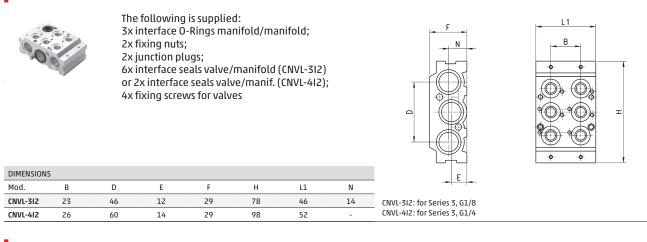




DIMENSIONS	5							
Mod.	В	D	E	F	Н	L1	Ν	CNVL-3I3: for Series 3, G1/8
CNVL-313	23	46	12	29	78	69	14	CNVL-4I3: for Series 3, G1/4
CNVL-413	26	60	14	29	98	78	-	-



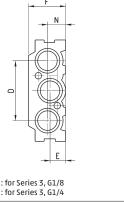
Intermediate module with 2 positions - Mod. CNVL-...

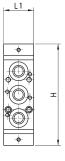


Intermediate module with 1 position - Mod. CNVL-...



The following is supplied: 3x interface O-Rings manifold/manifold; 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

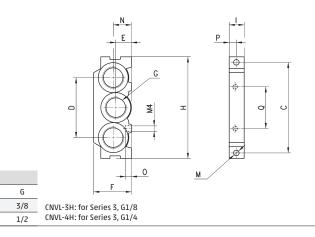




DIMENSIONS	;						
Mod.	D	E	F	н	L1	Ν	_
CNVL-311	46	12	29	78	23	14	CNVL-3I1: for Sei
CNVL-411	60	14	29	98	26	-	CNVL-4I1: for Se

Terminal module Mod. CNVL-*H





Interface module manifold between Series 3 G1/8 and G1/4

н

78

29 98

1

11,5

13

м

4,3

4,3

N O P Q

14 5 6

5 8 29

32

The following is supplied:

2x fixing nuts



С

69,5

88

D

46

60 14

E F

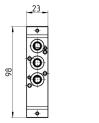
12 29

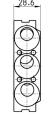
DIMENSIONS Mod.

CNVL-3H

CNVL-4H

The following is supplied: 3x interface seal 2x screws 2x pins 4x plugs 6x O-Rings





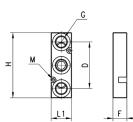
It is possible to seat 1 valve, series 3 with G1/8 port.

Mod. CNVL-4H-3H

Intermediate plate for additional inlet and exhaust pressure



The following is supplied: 3x O-Rings 2x fixing screws



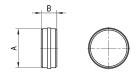
DIMENSION	S							
Mod.	G	Н	М	F	L1	D	F	
CNVL-3P	G1/4	70	3.2	29	22	50	15	CNVL-3P: for Series 3, G1/8
CNVL-4P	G1/4	73	3.2	29	25	50	20	CNVL-4P: for Series 3, G1/4

Separation diaphragm

For separation of channel: 1 - 3 - 5.



The following is supplied: 1x diaphragm



DIMENSIONS			
Mod.	А	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



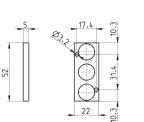
Mod.		
TCNVL/3	for Series 3, G1/8	
TCNVL/5	for Series 3, G1/4	

Blanking plate Mod. CNVL for manifolds

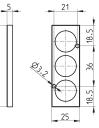
It is used to blank vacant positions of a manifold.



The following is supplied: 2x fixing screws 3x O-Rings



CNVL/1



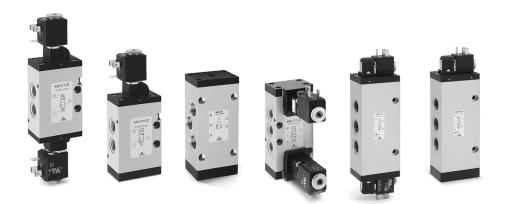
CNVL/4

Mod.		
CNVL/1	for Series 3, G1/8	
CNVL/4	for Series 3, G1/4	



Series 4 valves and solenoid valves

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.

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

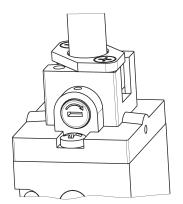
GENERAL DATA

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
Installation	in any position
Operating temperature	0 ÷ 60°C (with dry air at -20°C)
Operating pressure	see table
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.

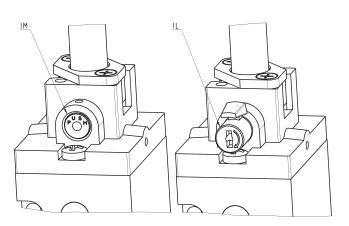
CODING	EXAMPLE
CODING	

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) 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 (vertical solenoid) for G1/4 port only 33 = pneumatic differential 34 = pneumatic differential 35 = pneumatic spring
22	SOLENOID INTERFACE:: 22 = mech. sol. 22 x 22 50 = mech. sol. 32 x 32 (only for 452C version)
IL	TYPE OF MANUAL OVERRIDE: = bistable, standard IL = bistable, lever type (available on demand) IM = monostable (available on demand)
U7	ENCAPSULATING MATERIAL / SOLENOID DIMENSIONS: A6 = PPS / 32 x 32 (only for 452C version) 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).

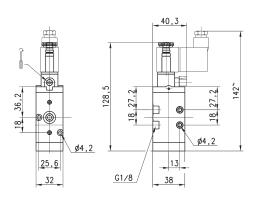


SERIES 4 VALVES AND SOLENOID VALVES

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.



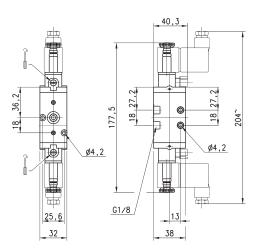


Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol
438-015-22	3/2 NC	650	2.5 ÷ 10	EV10
438-016-22	3/2 NC	650	2.5 ÷ 10	EV16
448-015-22	3/2 NO	650	2.5 ÷ 10	EV12
448-016-22	3/2 NO	650	2.5 ÷10	EV17

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.



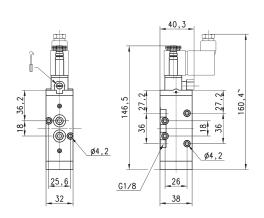
EV 14

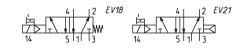
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	
438-011-22	3/2	650	2 ÷10	

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.





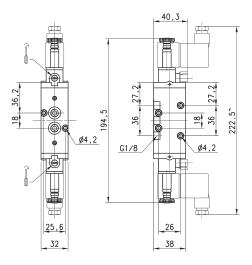
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol
458-015-22	5/2	650	2.5 ÷10	EV18
458-016-22	5/2	650	2.5 ÷10	EV21
458-015-22IL	5/2	650	2.5 ÷10	EV18

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.

EV23



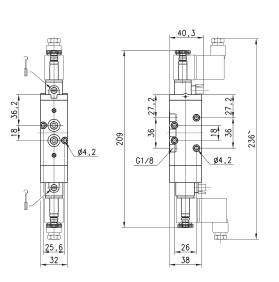
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)
458-011-22	5/2	650	2 ÷ 10



5/3-way solenoid valve, G1/8 - Mod. 468-011... and 478-011...



CC = Centres Closed CO = Centres Open



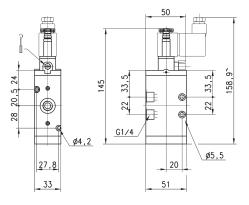


Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol
468-011-22	5/3 CC	600	2.5 ÷ 10	EV28
478-011-22	5/3 CO	600	2.5 ÷ 10	EV32

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 E	V16	2 EV1	^	2 EV17
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12	1 3	12	1 3	10	11 3	10	1 3

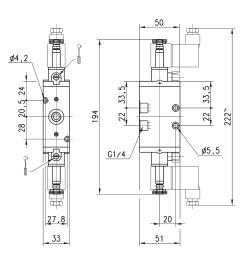
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol
434-015-22	3/2 NC	1250	2.5 ÷ 10	EV10
434-016-22	3/2 NC	1250	2.5 ÷ 10	EV16
444-015-22	3/2 NO	1250	2.5 ÷ 10	EV12
444-016-22	3/2 NO	1250	2.5 ÷ 10	EV17
434-015-22IL	3/2 NC	1250	2.5 ÷ 10	EV10

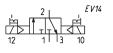
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3/2-way solenoid valve, G1/4, bistable - Mod. 434-011...



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





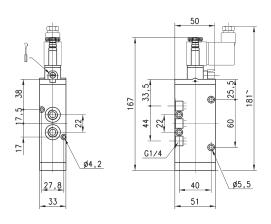
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)
434-011-22	3/2	1250	2 ÷ 10

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.

EV21



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

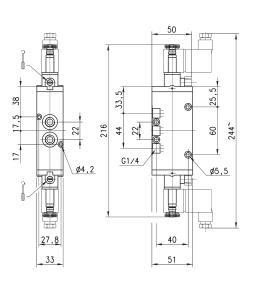


5/2-way solenoid valve, G1/4, bistable - Mod. 454-011...



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

EV23

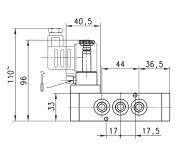


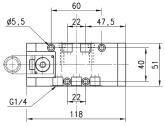
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)
454-011-22	5/2	1250	2 ÷ 10
454-011-22IL	5/2	1250	2 ÷ 10

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.





EV21 14

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

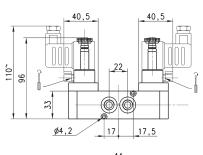
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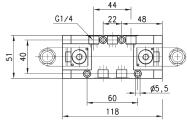
5/2-way solenoid valve, G1/4, bistable - Mod. 454-V11...

SOLENOID, PNEUMATIC AND MANIFOLD VALVES > SERIES 4 VALVES AND SOLENOID VALVES



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

EV28

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12



50 ш αĦ A 10 T S 38 33, ¢ 17,5 22 230 44 17 ø4,2 G1/4 Þ EV32 27,8 40 12 33 51

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

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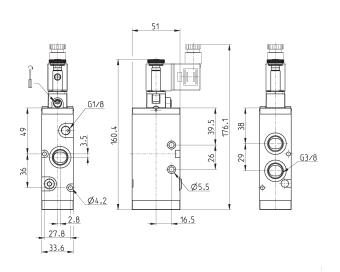
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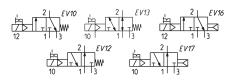
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3/2-way solenoid valve, G3/8, monostable Mod. 433... and Mod. 443...



(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

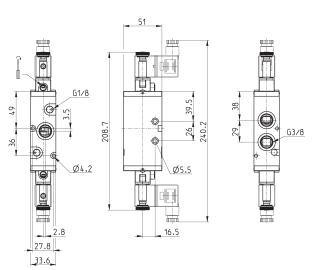
3/2-way solenoid valve, G3/8, bistable - Mod. 433...



These solenoid valves, which have electropneumatic actuation and return, assume the NC (closed) or NO (open) position depending on the last pulse received. The E11 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

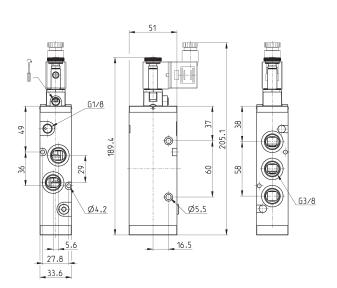
New

5/2-way solenoid valve, G3/8, monostable - Mod. 453...



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

EV21



Mod.	Function	Flow Qn (Nl/min)	Working pressure (bar)	Min. pilot pressure (bar)	Symbol
453-015-22	5/2	1800	2.5 ÷ 10	-	EV18

2.5 ÷ 10

5/2-way solenoid valve, G3/8, bistable - Mod. 453...

EV25

5/2

EV 19

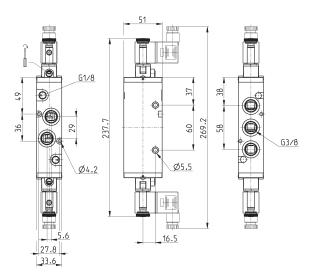


EV23

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

1800



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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

EV 18

453-016-22

New

EV21

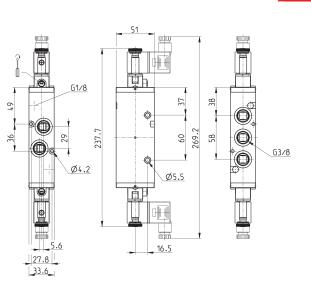


New

5/3-way solenoid valve, G3/8 - Mod. 463-... and 473-...



CC = Centres Closed CO = Centres Open





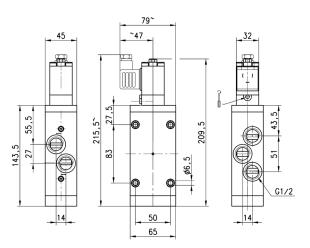
Mod.	Function	Flow Qn (Nl/min)	Working pressure (bar)	Min. pilot pressure (bar)	Symbol
463-011-22	5/3 CC	1600	2.5 ÷ 10	-	EV28
463-E11-22	5/3 CC	1600	-0.9 ÷ 10	2.5	EV29
473-011-22	5/3 CO	1600	2.5 ÷ 10	-	EV32
473-E11-22	5/3 CO	1600	-0.9 ÷ 10	2.5	EV34

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.

EV21



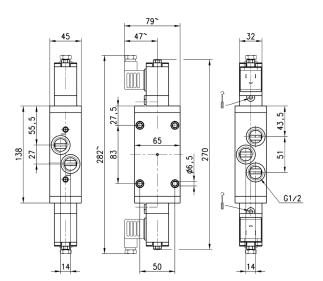
Mod.	Function	Flow rate Qn (Nl/min)	Operating pressure (bar)	Symbol	
452C-015-50-A6*	5/2	2500	2.5 ÷ 10	EV18	* choose the desired voltage
452C-016-50-A6*	5/2	2500	2.5 ÷ 10	EV21	* choose the desired voltage
452C-015	5/2	2500	2.5 ÷ 10		* choose the desired voltage
452C-015-22	5/2	2500	2.5 ÷ 10		* choose the desired voltage
452C-016	5/2	2500	2.5 ÷ 10		* choose the desired voltage

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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
452C-011-22	5/2	2500	2÷10	* choose the desired voltage
452C-011	5/2	2500	2÷10	* choose the desired voltage

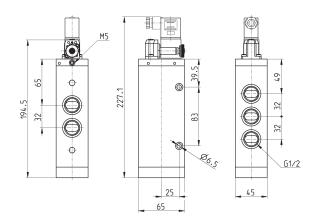
5/2-way solenoid valve, G1/2, monostable - Mod. 452N-...



These solenoid valves, which have electropneumatic actuation and spring or pneumatic spring return are suitable for operating doubleacting cylinders.

EV21

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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

EV 18

EV 19

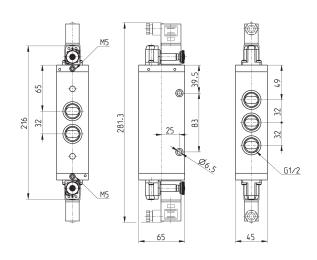
7_w

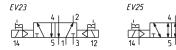


5/2-way solenoid valve, G1/2, bistable - Mod. 452N-...



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-...

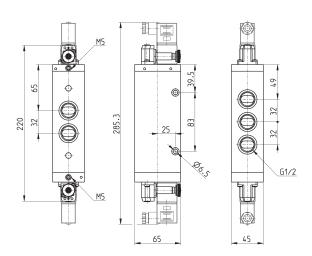
FV29

EV34



EV28

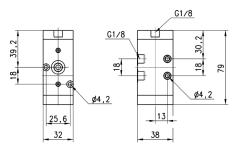
These solenoid valves, which have electropneumatic actuation and return, are suitable for operating double-acting cylinders.

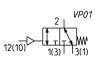


Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
5/3 CC	3300	-	2.5 ÷ 10	EV28
5/3 CC	3300	2.5	-0.9 ÷ 10	EV29
5/3 CO	3300	-	2.5 ÷ 10	EV32
5/3 CO	3300	2.5	-0.9 ÷ 10	EV34
	5/3 CC 5/3 CC 5/3 CO	5/3 CC 3300 5/3 CC 3300 5/3 CC 3300 5/3 CO 3300	5/3 CC 3300 - 5/3 CC 3300 2.5 5/3 CO 3300 -	5/3 CC 3300 - 2.5 ÷ 10 5/3 CC 3300 2.5 - 0.9 ÷ 10 5/3 CO 3300 - 2.5 ÷ 10

3/2-way valve, G1/8 port, monostable Mod. 438-35



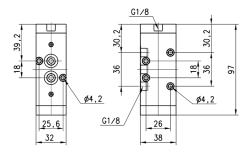




Mod.	Mounting	Function	Flow rate Qn (Nl/min)	Min. pilot pressure (bar)	Working pressure (bar)
438-35	in-line/on manifold	3/2 NC	700	2.5	-0.9 ÷ 10

5/2-way valve, G1/8 port, monostable Mod. 458-35





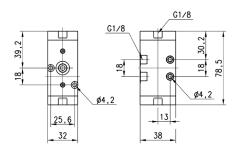
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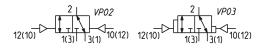
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	Min. pilot pressure (bar)	Working pressure (bar)
458-35	in-line/manifold	5/2	700	2.5	-0.9 ÷ 10

3/2-way valve, G1/8 port, bistable Mod. 438



These valves can work NC or NO according to the last pilot signal.

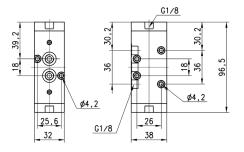




Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
438-33	in-line/on manifold	3/2	700	2	-0.9 ÷ 10	VP02
438-34	in-line/on manifold	3/2	700	2	-0.9 ÷ 10	VP03

5/2-way valve, G1/8 port, bistable Mod. 458





4 2 VP06	4 2 ^{VP05}

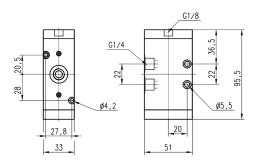
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
458-33	in-line/on manifold	5/2	700	2	-0.9 ÷ 10	VP06
458-34	in-line/on manifold	5/2	700	2	-0.9 ÷ 10	VP05

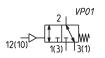
3/2-way valve, G1/4 port, monostable Mod. 434-35

SOLENOID, PNEUMATIC AND MANIFOLD VALVES > SERIES 4 VALVES AND SOLENOID VALVES



This valve can work NC or NO depending on where the power supply is connected.

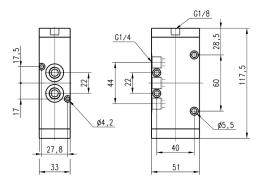




Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)
434-35	in-line/on manifold	3/2 NC	1250	2.5	-0.9 ÷ 10

5/2-way valve, G1/4 port, monostable Mod. 454-35





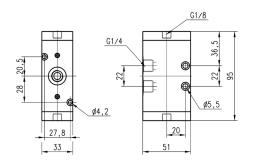
VP04 12 Ţ₩

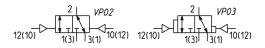
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	Min. pilot pressure (bar)	Working pressure (bar)
454-35	in-line/on manifold	5/2	1250	2.5	-0.9 ÷ 10

3/2-way valve, G1/4 port, bistable Mod. 434



These valves can work NC or NO according to the last pilot signal.

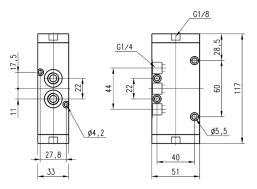




Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
434-33	in-line/on manifold	3/2 NC	1250	2	-0.9 ÷ 10	VP02
434-34	in-line/on manifold	3/2 NC	1250	2	-0.9 ÷ 10	VP03

5/2-way valve, G1/4 port, bistable Mod. 454





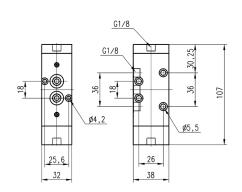
4 2 ^{VP06}	4 2 ^{VP05}

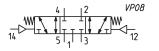
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
454-33	in-line/on manifold	5/2	1250	2	-0.9 ÷ 10	VP06
454-34	in-line/on manifold	5/2	1250	2	-0.9 ÷ 10	VP05

5/3-way C.C. valve, G1/8, monostable, with central stable position



CC = Centres Closed



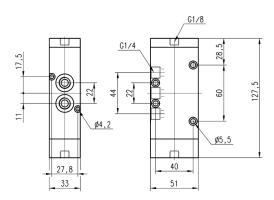


Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)
468-33	in-line/on manifold	5/3 CC	700	2.5	-0.9 ÷ 10

5/3-way CC CO valve, G1/4, monostable, central stable position



CC = Centres Closed CO = Centres Open



4	12	VP08	4	12	VP09
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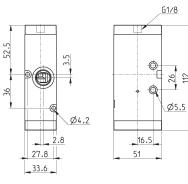
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
464-33	in-line/on manifold	5/3 CC	1250	2.5	-0.9 ÷ 10	VP08
474-33	in-line/on manifold	5/3 CO	1200	2.5	-0.9 ÷ 10	VP09

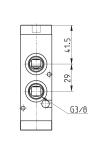
New

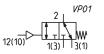
3/2-way valve, G3/8 port, monostable Mod. 433-35



This valve can work NC or NO depending on where the power supply is connected.



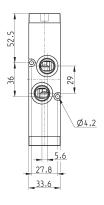


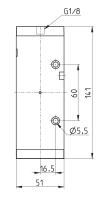


Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)
433-35	in-line/on manifold	3/2 NC	1800	2.5	-0.9 ÷ 10

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5/2-way valve, G3/8 port, monostable Mod. 453-35





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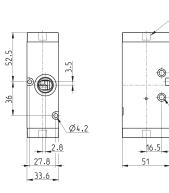
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	11		-lw
14	5	1 ₁ 1	3

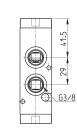
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	Min. pilot pressure (bar)	Working pressure (bar)
453-35	in-line/on manifold	5/2	1800	2.5	-0.9 ÷ 10

New



These valves can work NC or NO according to the last pilot signal.



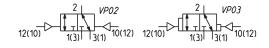


<u>G1/8</u>

E -26

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Ø5.5



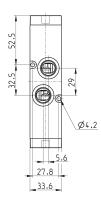
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
433-33	in-line/on manifold	3/2 NC	1800	2	-0.9 ÷ 10	VP02
433-34	in-line/on manifold	3/2 NC	1800	2	-0.9 ÷ 10	VP03

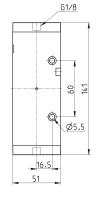
5/2-way valve, G3/8 port, bistable Mod. 453

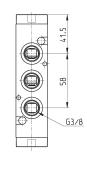
VP06 -⊲<u>−</u>12



14^D







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

VP05

2

G1/8

60

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Q

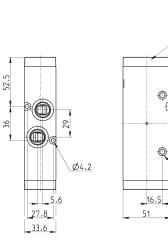


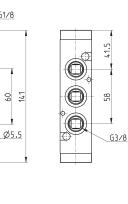
SERIES 4 VALVES AND SOLENOID VALVES

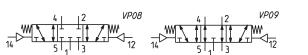
5/3-way CC CO valve, G3/8, monostable, central stable position



CC = Centres Closed CO = Centres Open



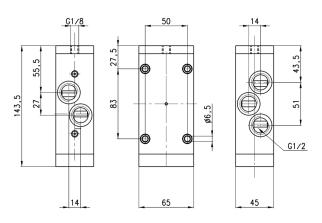




Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
463-33	in-line/on manifold	5/3 CC	1600	2.5	-0.9 ÷ 10	VP08
473-33	in-line/on manifold	5/3 CO	1600	2.5	-0.9 ÷ 10	VP09

5/2-way valve, G1/2 port, monostable Mod. 452C-35



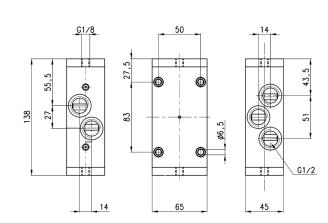


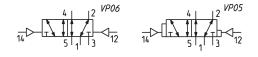
	4		2	VP04
		7	-w	v
14	5		3	

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

5/2-way valve, G1/2 port, bistable Mod. 452C



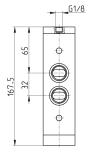


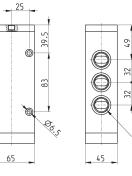


Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
452C-33	in-line	5/2	2500	2	-0.9 ÷ 10	VP06
452C-34	in-line	5/2	2500	2	-0.9 ÷ 10	VP05

5/2-way valve, G1/2 port, monostable Mod. 452N-35







G1/2

	4	I	2	VP04
	1		-w	v
14	5		T3	

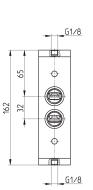
Mod.	Mounting	Function	Flow rate Qn (Nl/min)	Min. pilot pressure (bar)	Working pressure (bar)
452N-35	in-line	5/2	4000	2.5	-0.9 ÷ 10

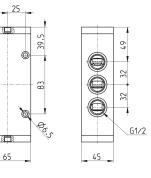


5/2-way valve, G1/2 port, bistable Mod. 452N-33

VP06







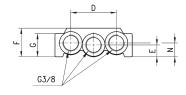
452N-33 in-line 5/2 4000 2 -0.9.±10 VP06	Mod.	Mounting	Function	Flow rate Qn (Nl/min)	min. pilot Pressure (bar)	Working pressure (bar)	Symbol
	452N-33	in-line	5/2	4000	2	-0.9 ÷ 10	VP06

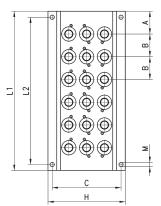
Manifold base with common exhausts

 $\overline{14}$



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





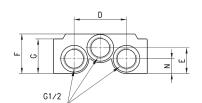
DIMENSIO	NS											
Mod.	А	В	С	D	Е	F	G	Н	11	L2	М	Ν
CNVL-42	28	33	69.2	46	12	29	23.5	78	89	77	4.3	14
CNVL-43	28	33	69.2	46	12	29	23.5	78	122	110	4.3	14
CNVL-44	28	33	69.2	46	12	29	23.5	78	155	143	4.3	14
CNVL-45	28	33	69.2	46	12	29	23.5	78	188	176	4.3	14
CNVL-46	28	33	69.2	46	12	29	23.5	78	221	209	4.3	14

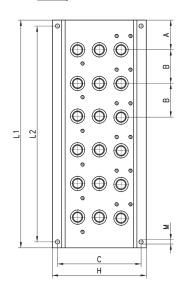
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Manifold base with common exhausts



- 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.	А	В	С	D	Е	F	G	Н	L1	L2	Μ	Ν
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

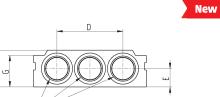
Manifold base with common exhausts

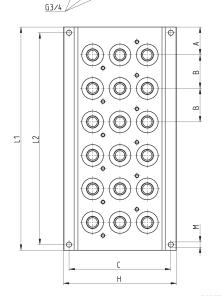


For valves Series 4, G3/8 (3/2, 5/2 or 5/3-way) The following is supplied with: 1x manifold 1x pair of fixing screws for valve position

1x interface seal for valve positions 2x guides for valve position

Mod.	А	В	С	D	E	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





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



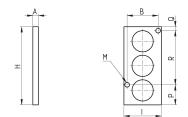
Mod. TCNVL/3 TCNVL/5 TCNVL/6

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/6: for Series 4, G3/8



DIMENSIC	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	- It is us
CNVL/6	5	27.8	85	33.5	4.2	24.5	24.5	36	of a m

It is used to blank vacant positions of a manifold.

SERIES 4 VALVES AND SOLENOID VALVES

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.

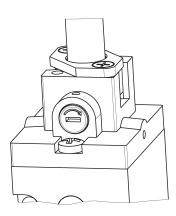
GENERAL DATA

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

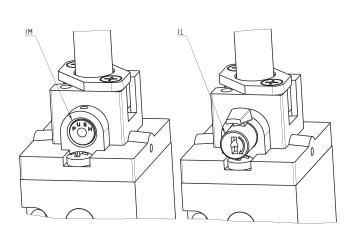
9	5 1 - 000 - P16 - 23 - U7 7
9	SERIES
5	NUMBER OF WAYS - POSITIONS: 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO
1	SIZE: 1 = size 1 2 = size 2 3 = size 3
000	BODY DESIGN: 000 = valve body
P16	ACTUATION: 33 = pneumatic, pneumatic return 34 = pneumatic, differential pneumatic return 35 = pneumatic, mechanical spring 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.

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

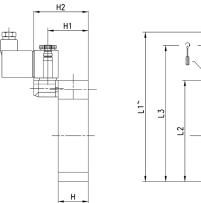
B

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



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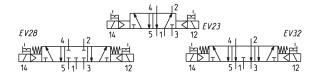
DIMENSIONS										
Mod.	Size ISO	В	11	L2	L3	Н	H1	H2	Min. operating pressure	Symbol
951-000-P15-23	1	38	153	108	146	32	43	58	2.5	EV18
952-000-P15-23	2	51	173	128	166	33	44	59	2.5	EV18
953-000-P15-23	3	65	218	173	211	45	56	71	2.5	EV18
951-000-P16-23	1	38	153	108	146	32	43	58	2.5	EV21
952-000-P16-23	2	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
953-000-P16-23IL	3	65	218	173	211	45	56	71	2.5	EV21

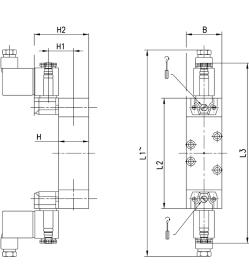
5/2-way, 5/3-way solenoid valves, bistable - ISO 1, ISO 2, ISO 3



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



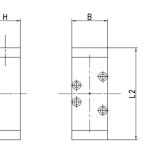
5/2 -way valves, monostable, bistable - ISO 1, ISO 2, ISO 3



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



 $-\underbrace{\begin{smallmatrix} 4 \\ -1 \\ 14 \\ VP04 \\ VP05 \\ VP05 \\ VP06 \\ VP$

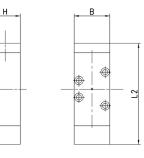
DIMENSIONS							
Mod.	Size ISO	В	L2	Н	Min. pilot pressure (bar)	Working pressure (bar)	Symbol
951-000-35	1	38	98	32	2.5	-0.9 ÷ 10	VP04
952-000-35	2	51	118	33	2.5	-0.9 ÷ 10	VP04
953-000-35	3	65	163	45	2.5	-0.9 ÷ 10	VP04
951-000-34	1	38	98	32	2	-0.9 ÷ 10	VP05
952-000-34	2	51	118	33	2	-0.9 ÷ 10	VP05
953-000-34	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



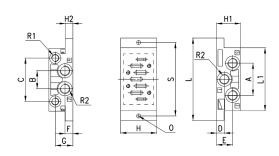
DIM	IENIC	IONS	

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

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Single sub-base side outlets (VDMA 24345)

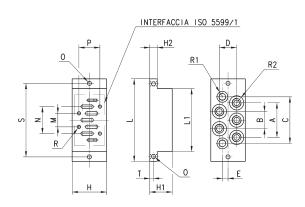




DIMENSIO	NS																
Mod.	Size	А	В	С	D	E	F	G	Н	Η1	H2	L	L1	0	R1	R2	S
901-F1A	1	43	24	58	10.5	21.5	10.5	23.5	48	32	10	110	84	5.5	G1/8	G1/4	98
902-F2A	2	56	30	74	14	26	14	30	57	40	13	124	95	6.5	G1/8	G3/8	112
903-F3A	3	68	32	90	17	17	17	22	71	32	18	149	119	6.5	G1/8	G1/2	136

Single sub-base with rear outlets (VDMA 24345)



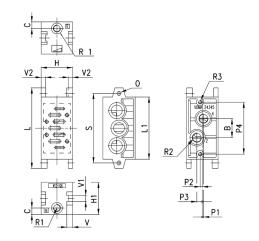


DIMENSIO	NS																			
Mod.	Size	А	В	С	D	Е	Н	Η1	H2	L	ι1	М	Ν	0	Р	R	R1	R2	S	Т
901-G1A	1	46	23	61	23	7.5	46	30	10	110	84	18	36	5.5	28	M5	G1/8	G1/4	98	5
902-G2A	2	56	28	72	28	8	56	35	13	124	95	24	48	6.5	38	M6	G1/8	G3/8	112	6.5
903-G3A	3	68	34	90	34	10	71	32	18	149	119	32	64	6.5	48	M8	G1/8	G1/2	136	9

Manifold sub-base with com. exhausts and inlet (VDMA 24345)



The following is supplied: 2x fixing screws 3x O-ring



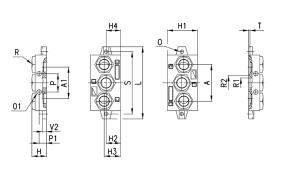
DIMENSIO	NS																		
Mod.	Size	В	С	Н	Η1	L	ι1	0	Ρ1	P2	Ρ3	Ρ4	R1	R2	R3	S	V	V1	V2
901-C1A	1	26	8.5	43	44	110	85	5.5	1.5	3	7.5	71	G1/8	G1/4	M5	95	8	8	6
902-C2A	2	30	9	56	45	135	100	6.5	5	3	6	86	G1/8	G3/8	M6	115	11	11	8
903-C3A	3	38	10	71	54	190	140	9	6	3	8	130	G1/8	G1/2	M8	168	13	13	8

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

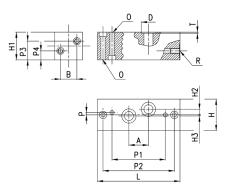


DIMENSI	ONS																		
Mod.	Size	А	A1	Н	H1	H2	H3	H4	L	0	01	Р	Ρ1	R	ØR1	ØR2	S	Т	V2
901-H1	1	56	48	22	46	22	25	22	110	5,5	7	28	11	G3/8	15	22,1	95	2	6
902-H2	2	68	63	26	47	23	25	24	135	6,5	9	35	13	G1/2	18,5	28,7	115	2	8
903-H3	3	104	94	30	56	22	25	25	190	9	12	52	15	G1	28	38	168	2,7	8

Interface with front outlets (VDMA 24345)



The following is supplied: 2x fixing screws 2x OR

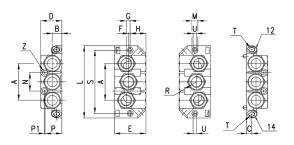


DIMENSI	ONS																
Mod.	Size	Α	В	D	Н	H1	H2	H3	L	0	Р	P1	P2	P3	Ρ4	R	Т
901-N1	1	26	22	19	42	37	7.5	1.5	110	5.5	3	71	95	25	12	G1/4	1.4
902-N2	2	30	29	23	55	40	6	5	135	6.5	3	86	115	26	14	G3/8	1.4
903-N3	3	38	36	27	70	45	8	6	190	9	3	130	168	29	17	G1/2	1.4

End blocks for manifold bases with front outlets



The following is supplied: 2x end blocks (1 pair) 2x fixing screws 3x OR

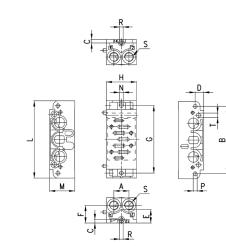


DIMENSIO	NS																		
Mod.	Size	А	В	С	D	Е	F	G	Н	L	М	Ν	Р	Ρ1	R	S	Т	U	Z
901-HN1	1	56	14.5	8	32	48	2.5	6	24	110	9	28	25.5	1	3/8″	96	G1/8	5,5	3,5

Manifold bases with comm. inlet and exhaust ports and front outlet

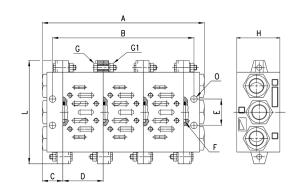
The following is supplied: 2x fixing screws 3x OR





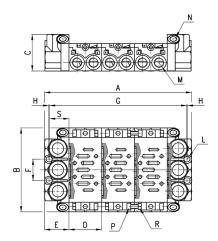
DIMENSIO	NS															
Mod.	Size	А	В	С	D	Е	F	G	Н	L	М	Ν	Р	R	S	т
901-N1A	1	21.5	96	5	12	19	25	96	43	110	36	5.5	5.5	M5	G1/4	6.2

Assembly of manifold sub-base (VDMA 24345)



DIM	ENSIONS										
Size	А	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

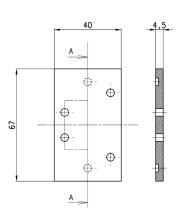


DIM	IENSIONS													
Size	Α	В	С	D	Е	F	G	Н	L	М	Ν	UNI 5931 P.	UNI 5588 R	S
1	N° D+2E	110	48	43	32	28	n°D+25	1	3,5	G1/4	G1/8	M5X14	M5	25,5



Cover plate for unused positions

The following is supplied: 1x seal 4x screws

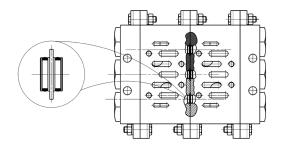


Mod. 901-TP

Mounting example



Separation tap lines 1 - 3 - 5 to be used with manifold type 901-C1A and 902-C2A

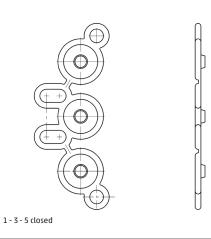




Separation joint



Separation joint to be used with manifold type 901N

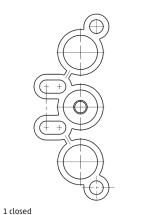


Mod.
901-N1A/T

Separation joint



Separation joint to be used with manifold type 901N. P plugged.



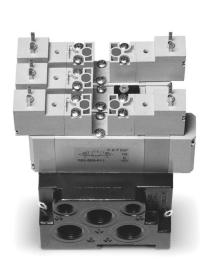




Series 7 valves and solenoid valves

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	6 bar
Nominal flow	Qn Size 26 mm = 900 Nl/min Qn Size 18 mm = 450 Nl/min
Voltage	see coding
Voltage tolerance	±10%
Power consumption	ZW
Class of insulation	class F
Protection	IP54 (IP65 with connector DIN 40050)

CODING EXAMPLE

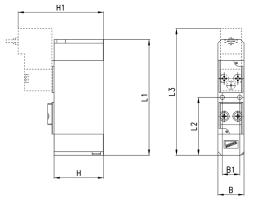
7	5 1	-	Ν	1	Α	-	P16	-	15	-	W	2	3
7	SERIES:												
5	NUMBER OF WAY 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO 8 = 5/3 CP	5 - POSITION	5:										
1	SIZES: 1 = size 26 mm 2 = size 18 mm												
Ν	SUBBASE: N = sub-base wit	h front outle	ets										
1	PORTS: 1 = G1/4 (Size 26 2 = G1/8 (Size 18												
A	NUMBER OF SUBE 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 *	BASES:											
P16	ACTUATION: 33 = pneumatic, 36 = pneumatic, P11 = electro-pn P16 = electro-pn	monostable eumatic, bis	table										
15	SOLENOID INTERF 15 = 15x15	ACE:											
W	SOLENOID TYPES: W = Series W (24 P = Series P **		וy)										
2	CONNECTION: 1 = wire 300 mm 2 = 2 pins (Series 5 = 2 pins+earth	W, 24V - 48	V DC)	**									
3	SOLENOID VOLTAC 3 = 24V DC 4 = 48V DC ** 6 = 110V DC (wit) B = 24V 50/60 Hz C = 48V 50/60 Hz D = 110V 50/60 H	h Series P so (with Serie (with Serie	s P solenoids s P solenoids	only) ** only) **									
	NOTES: * complete with ** on request	the two en	dblocks										

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.





EV20

DIMENSIONS												
Size ISO	В	B1	L1	L2	L3	Н	H1	Min. operating pressure				
26 mm	26,5	19	99,7	49,85	98,8	39	64,3	3 bar				
18 mm	18,5	12,5	82,2	41,1	90	35,2	60,5	3 bar				
	26 mm	26 mm 26,5	26 mm 26,5 19	26 mm 26,5 19 99,7	26 mm 26,5 19 99,7 49,85	26 mm 26,5 19 99,7 49,85 98,8	26 mm 26,5 19 99,7 49,85 98,8 39	26 mm 26,5 19 99,7 49,85 98,8 39 64,3				

5/2-way solenoid valves, ISO 26 mm - 18 mm, bistable

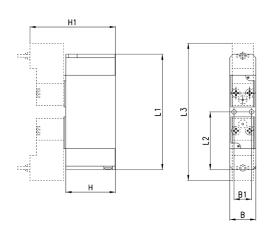


The Series 7 solenoid valves with ISO 26 mm and 18 mm interface which have electropneumatic actuation and return are suitable for mounting on a sub-base. For electrical actuation, 2 types of solenoid Series W and Series P (available with a wide range of voltages, on request).

Connector Mod. 126-800.

The following is supplied: 1x interface seal 2x fixing screws





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



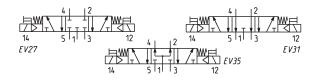
5/3-way solenoid valves, ISO 26 mm - 18 mm

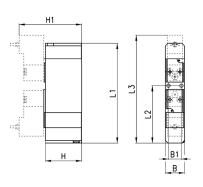


The Series 7 solenoid valves with ISO 26 mm - 18 mm interface which have electropneumatic actuation and spring return are suitable for mounting on a sub-base. For electrical actuation, two types of solenoid Series W and Series P (are available with a large range of voltages, on request).

Connector Mod. 126-800.

The following is supplied: 1x interface seal 2x fixing screws





SERIES 7 VALVES AND SOLENOID VALVES

DIMENSIONS										
Mod.	Size ISO	В	B1	11	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

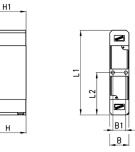


The Series 7 solenoid valves with ISO 26 mm and 18 mm interface which have pneumatic actuation and pneumatic spring return are suitable for mounting on a subbase.

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

14^D



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

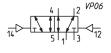
5/2-way solenoid valves ISO 26 mm - 18 mm, bistable

SOLENOID, PNEUMATIC AND MANIFOLD VALVES > SERIES 7 VALVES AND SOLENOID VALVES



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 B



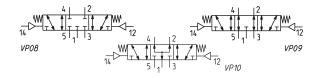
Size ISO	В	B1	L1	L2	Н	H1	Min. operating pressure
26 mm	26,5	19	99,7	49,85	39	40,5	2 bar
18 mm	18,5	12,5	82,2	41,1	35,2	36,7	2 bar
	26 mm	26 mm 26,5	26 mm 26,5 19	26 mm 26,5 19 99,7	26 mm 26,5 19 99,7 49,85	26 mm 26,5 19 99,7 49,85 39	26 mm 26,5 19 99,7 49,85 39 40,5

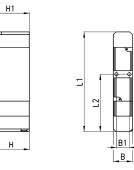
5/3-way solenoid valves, ISO 26 mm - 18 mm



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





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

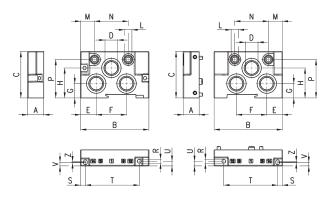


End blocks for subbase



End blocks for subbase with conveyed inlets and exhausts and front outlets.

The following is supplied: 1x seal 2x fixing screws



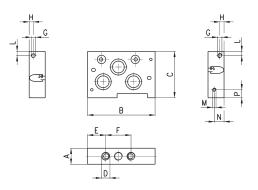
DIMENSIONS	S																		
Mod.	Size ISO	А	В	С	D	E	F	G	Н	L	М	Ν	Р	R	S	Т	U	V	Z
701C-HN1	26 mm	27	107	65	G1/2	23	60	24,5	43	G1/8	21,5	58	55,5	4,5	7,5	61,5	6	6,2	4
702C-HN2	18 mm	19	81	55	G3/8	18,5	36	17	35,5	G1/8	16,5	40	45,5	4,5	4,65	63,85	5,5	4,,35	1,3

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

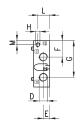


DIMENSIONS													
Mod.	Size ISO	А	В	С	D	E	F	G	Н	L	М	Ν	Р
701C-N1N	26 mm	27	100	65	G1/4	29	42	M5	6,5	10	M4	10	10
702C-N2N	18 mm	19	81	55	G1/8	22,5	28	M5	5	5	M4	11,5	9,5

Subbase for manifolds



Manifold subbase with conveyed inlets and exhausts and front outlets.







В

The following is supplied: 1x seal 2x fixing screws

DIMENSIONS													
Mod.		Size ISO	А	В	С	D	E	F	G	Н	L	L1	М
701C-N1A	for pneumatic valves	26 mm	27	107	65	G1/4	11	23	53	M5	20,7	20,7	6,5
702C-N2A	for pneumatic valves	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

SERIES 7 VALVES AND SOLENOID VALVES

Diaphragm cover for subbase

Diaphragm for subbase with conveyed inlet and exhausts and side outlets.



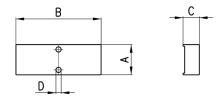


Mod. 701C-N1A-TP 702C-N2A-TP

Excluder tap for subbase



The following is supplied: 1x seal 2x screws



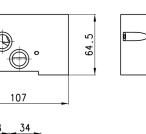
DIMENSIONS									
Mod.	Size ISO	А	В	C	D				
701-TP	26 mm	26,5	61,7	10	4,2				
702-TP	18 mm	18,5	52,2	10	3,2				

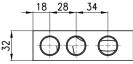
Interface between ISO 01 and ISO 02



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

Automation



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.

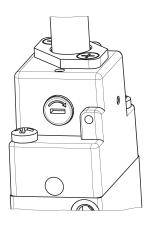
GENERAL DATA

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.

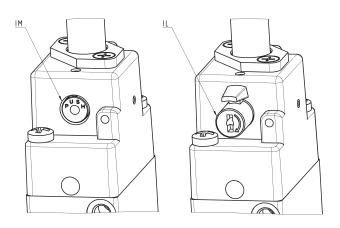
CODING EXAMPLE

1	1	1		1		1				1
NA	5	4N	-	15	-	02	IL	- 1	U7	7
		1					l		I	
NA	SERIES NAMUR									
5	NUMBER OF W/ 3 = 3/2 NC 4 = 3/2 NO 5 = 5/2 6 = 5/3 CC 7 = 5/3 CO 8 = 5/3 CP	NYS - POSITIONS:								
4N	PORTS: 4N = G1/4 supp ports according	oly 9 NAMUR standards								
15	ACTUATION: 11 = double sol 15 = single sol 33 = pneumati 35 = pneumati	enoid, spring return c pneumatic	I							
02	SOLENOID INTE 02 = mech. sol									
IL	TYPE OF MANU/ = bistable, si IL = bistable, le IM = monostab		on demand) nand)							
U7	A8 = PPS / 30 x G7 = PA / 22 x 2 G8 = PA / 30 x 3 G9 = PA / 22 x 5	22 50 (24 V DC only) 58 guishing PA, Explos		30						
7	SOLENOID VOLT	AGE (see the dedica	ted 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).

31.4_12_12

 (\bullet)

32

0

3/2-way solenoid valve NC and NO



Mod.	Symbol	
NA34N-15-02	EV10	
NA44N-15-02	EV12	

39.4

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158

EV 12

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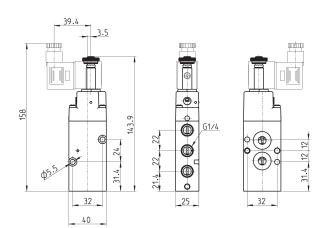
<u>61/4</u>

5/2-way solenoid valve, monostable

EV 10

W





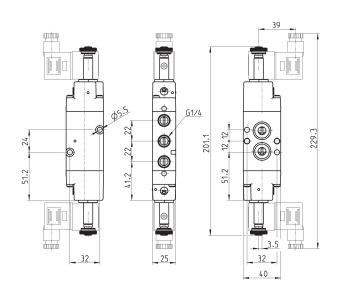


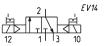
Mod. NA54N-15-02

SERIES NA VALVES AND SOLENOID VALVES

3/2-way solenoid valve, bistable



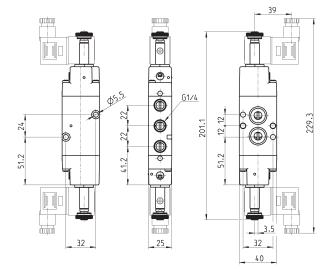


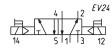


Mod. NA34N-11-02

5/2-way, solenoid valve, bistable





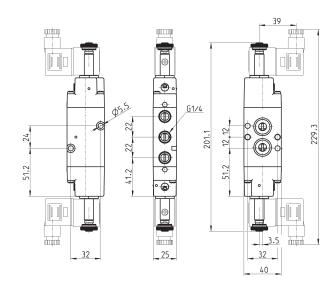


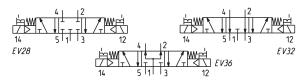


SERIES NA VALVES AND SOLENOID VALVES

5/3-way solenoid valve CC CO CP



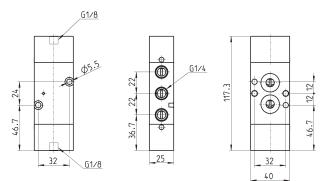




Mod.	Symbol	
NA64N-11-02	EV28	
NA74N-11-02	EV32	
NA84N-11-02	EV36	

5/2-way pneumatic valve, bistable







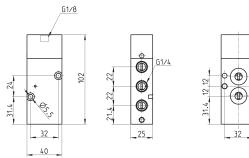


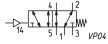


SERIES NA VALVES AND SOLENOID VALVES

5/2-way pneumatic valve, monostable







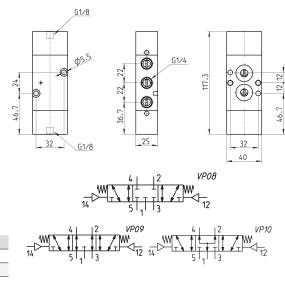
31.4 12 12	
	32



Mod.
NA54N-35

5/3-way pneumatic valve CC CO CP





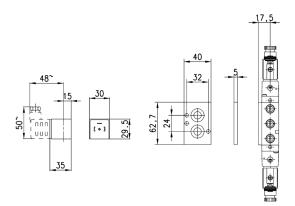
Mod.		
NA64N-33	VP08	
NA74N-33	VP09	
NA84N-33	VP10	

Single subbase Mod. NA54-PC



Distance plate for the mounting of Series H8 solenoids

Supplied with: 2x screws 2x O-rings



Mod. NA54-PC

New

Series ASX angle seat valves

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

utomatio



- » High flow
- » Low resistance of the flow
- » Anti-water hammer design
- » Compliant with Directive PED 2014/68/UE
- » Compliant with Directive ATEX for Zones 1/21 - II 2G Ex h IIC T4 Gb and II 2D Ex h IIIC T135 °C Db -10≤ Ta ≤+80 °C

The operation is determined by the pneumatic drive of a single acting, guided piston actuator with spring return. There are also models available with double acting actuators, without spring. For liquid media we recommend the models with flow direction under the seat. For gas or steam we recommend the models with flow direction above the seat.

Angle seat valves are available in different versions with regard to nominal diameter, type of fluid and process connections.

They are able to manage media that are corrosive or contain suspended solid particulate matter and can be used in applications with high operating temperatures.

GENERAL DATA

TECHNICAL FEATURES	
Function	2/2 NC - 2/2 NO - 2/2 Double Acting
Operation	pneumatic, poppet type
Pneumatic connections	1/4 4" with BSP/BSPT/NPT threads, flanged, welding ends, tri-clamp
Nominal diameter	DN8 DN100
Flow coefficient Kv (m ³ /h)	2.2 132
Operating pressure	0 ÷ 2 16 bar
Operating temperature	-10 ÷ 180 °C (standard seals) / 25 ÷ 220 °C (high temperature seals)
Media	water, air, steam, inert or corrosive liquids and gases (compatible with the materials in contact)
Viscosity	600 CSt. max
Installation	in any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body	316 stainless steel (DN8 ÷ DN80) / 304 stainless steel (DN100)
Seals	PTFE
Internal parts	316 stainless steel
SPECIFICATIONS PNEUMATIC ACTUATOR	
Actuator dimensions	Ø40 - Ø50 - Ø63 - Ø90 - Ø125mm
Actuator material	304 stainless steel / aluminium (only for Ø125mm)
Piston material	aluminium
Piston seal material	FKM
Piloting fluid	air or inert gases
Piloting pressure	10 bar max.
Actuator position	360° rotatable

SERIES ASX ANGLE SEAT VALVES

CODING EXAMPLE

AS	Х	2	1	-	W	015	G1	-	040	1	2	-	
		1		1				1		1		1	
AS	SERIES												
Х	TYPE OF A X = metal	ACTUATOR l actuator											
2		tainless stee	l (DN 100) l (DN8 ÷ DN80)									
1	0 = 2/2-v 1 = 2/2-v												
W	FLOW DIR W = unde Y = above	er the seat (a	nti-water han	ımer)									
015	008 = DN 010 = DN 015 = DN 020 = DN 025 = DN 032 = DN 040 = DN 050 = DN 065 = DN	10 15 20 25 32 40 50 65 80	or flanged ver	sion with NC	and DA functi	on and pressure un	der the seat						
G1	BODY CONNECTION G1 = BSP thread DIN 228-1 T1 = BSPT thread DIN 2999-1 N1 = NPT thread ASME B1.20.1 H7 = welding ends DIN 11850-2 / DIN 11866-A H8 = welding ends DIN 11850-3 K7 = tri-clamp ISO 2852												
040	F2 = flange DIN 2543 ACTUATOR DIMENSION 040 = Ø40 mm 050 = Ø50 mm 063 = Ø63 mm 090 = Ø90 mm 125 = Ø125 mm												
1		R MATERIAL tainless stee inium	l										
2			eratures -10 ÷ ures 25 ÷ 220										
	PS2 = NPI PS3 = PNI PS4 = NPI PS5 = SCF PS6 = SCF SL1 = stro SL2 = stro PI1 = pos	N type proxin N type proxin P type proxin N type proxin A type proxin A type proxin bke limiter fo bke limiter fo ition indicate	nity switch - N nity switch - N nity switch - N nity switch - N nity switch - N or Ø50 - Ø63 m or Ø90 mm action	IC contact - 1 O contact - 1 IC contact - 2 O contact - 2 C contact - 2 m actuators uators 0 - Ø63 - Ø9	0 ÷ 30 V DC pc 0 ÷ 30 V DC po 0 ÷ 250 V AC pc 0 ÷ 250 V AC pc	wer supply wer supply wer supply ower supply ower supply							



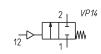
Series ASX angle seat valve - 2/2-way NC - pressure under the seat



The valves with flow direction under the seat are suitable for uncompressible fluids. This function prevents the hydraulic water hammer effect. NOTE TO THE TABLE: The indicated models are suitable for operating

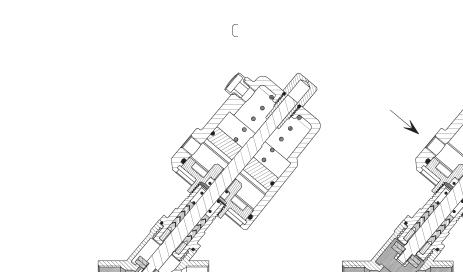


temperatures from -10 to +180 °C. For higher temperatures, please see the CODING EXAMPLE. * to complete the code add BODY CONNECTION.



DRAWING LEGEND: C = valve in closed position 0 = valve in open position

0



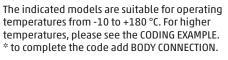
DIMENSIONS									
Mod.	Function	DN	Ports	Orifice Ø (mm)	Kv (m³/h)	Differential pressure min ÷ max (bar)	Minimum piloting pressure (bar)	Actuator Ø (mm)	Actuator material
ASX21-W008*-04012	2/2 NC	8	1/4″	13	2.2	0÷13	≥ 4	40	304 stainless steel
ASX21-W008*-05012	2/2 NC	8	1/4"	13	2.2	0÷14	≥ 4.5	50	304 stainless steel
ASX21-W010*-04012	2/2 NC	10	3/8″	13	3.9	0÷13	≥ 4	40	304 stainless steel
ASX21-W010*-05012	2/2 NC	10	3/8″	13	3.9	0÷14	≥ 4.5	50	304 stainless steel
ASX21-W015*-04012	2/2 NC	15	1/2"	13	4.3	0÷13	≥ 4	40	304 stainless steel
ASX21-W015*-05012	2/2 NC	15	1/2"	13	4.3	0÷14	≥ 4.5	50	304 stainless steel
ASX21-W020*-05012	2/2 NC	20	3/4″	18	7.6	0÷14	≥ 4.5	50	304 stainless steel
ASX21-W025*-05012	2/2 NC	25	1″	24	15.8	0 ÷ 8	≥ 4.5	50	304 stainless steel
ASX21-W025*-06312	2/2 NC	25	1″	24	15.8	0 ÷ 13	≥ 5	63	304 stainless steel
ASX21-W032*-06312	2/2 NC	32	1 1/4"	31	26	0 ÷ 6	≥ 5	63	304 stainless steel
ASX21-W032*-09012	2/2 NC	32	11/4"	31	26	0÷16	≥ 6	90	304 stainless steel
ASX21-W040*-06312	2/2 NC	40	1 1/2"	35	32	0 ÷ 5	≥ 5	63	304 stainless steel
ASX21-W040*-09012	2/2 NC	40	1 1/2"	35	32	0 ÷ 16	≥ 6	90	304 stainless steel
ASX21-W050*-06312	2/2 NC	50	2″	45	52	0 ÷ 5	≥ 5	63	304 stainless steel
ASX21-W050*-09012	2/2 NC	50	2″	45	52	0 ÷ 10	≥ 6	90	304 stainless steel
ASX21-W050*-12582	2/2 NC	50	2″	45	52	0÷16	≥ 5.5	125	aluminium
ASX21-W065*-09012	2/2 NC	65	2 1/2"	61	83.2	0 ÷ 5	≥ 6	90	304 stainless steel
ASX21-W065*-12582	2/2 NC	65	2 1/2"	61	83.2	0 ÷ 9	≥ 5.5	125	aluminium
ASX21-W080*-12582	2/2 NC	80	3″	80	119	0 ÷ 5	≥ 5.5	125	aluminium
ASX11-W100F2-12582	2/2 NC	100	4"	90	132	0 ÷ 2.5	≥ 5.5	125	aluminium

SERIES ASX ANGLE SEAT VALVES

Series ASX angle seat valve - 2/2-way NC - pressure above the seat

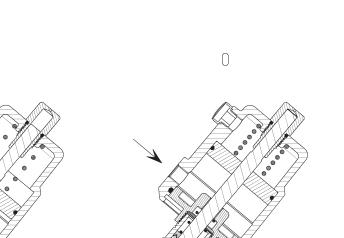
The valves with flow direction above the seat are suitable for compressible fluids.

NOTE TO THE TABLE:



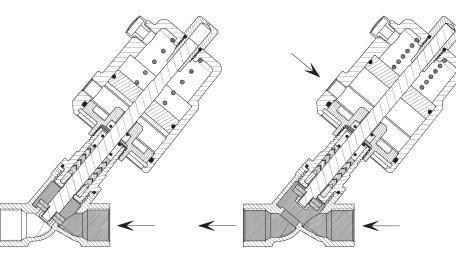
C





DRAWING LEGEND: C = valve in closed position

0 = valve in open position



D	IM	FN	121	n

DIMENSIONS									
Mod.	Function	DN	Ports	Orifice Ø (mm)	Kv (m³/h)	Differential pressure min ÷ max (bar)	Minimum piloting pressure (bar)	Actuator Ø (mm)	Actuator material
ASX21-Y008*-04012	2/2 NC	8	1/4"	13	2.2	0÷16	3 ÷ 4.5	40	304 stainless steel
ASX21-Y008*-05012	2/2 NC	8	1/4"	13	2.2	0÷16	3 ÷ 3.5	50	304 stainless steel
ASX21-Y010*-04012	2/2 NC	10	3/8"	13	3.9	0÷16	3 ÷ 4.5	40	304 stainless steel
ASX21-Y010*-05012	2/2 NC	10	3/8"	13	3.9	0÷16	3 ÷ 3.5	50	304 stainless steel
ASX21-Y015*-04012	2/2 NC	15	1/2"	13	4.3	0÷16	3 ÷ 4.5	40	304 stainless steel
ASX21-Y015*-05012	2/2 NC	15	1/2"	13	4.3	0÷16	3 ÷ 3.5	50	304 stainless steel
ASX21-Y020*-05012	2/2 NC	20	3/4"	18	7.6	0÷16	3 ÷ 4	50	304 stainless steel
ASX21-Y025*-05012	2/2 NC	25	1″	24	15.8	0÷16	3 ÷ 4.5	50	304 stainless steel
ASX21-Y025*-06312	2/2 NC	25	1″	24	15.8	0÷16	3 ÷ 3.5	63	304 stainless steel
ASX21-Y032*-06312	2/2 NC	32	11/4"	31	26	0÷16	3 ÷ 5.5	63	304 stainless steel
ASX21-Y032*-09012	2/2 NC	32	11/4"	31	26	0÷16	3 ÷ 3.5	90	304 stainless steel
ASX21-Y040*-06312	2/2 NC	40	11/2"	35	32	0÷16	3 ÷ 6.5	63	304 stainless steel
ASX21-Y040*-09012	2/2 NC	40	11/2"	35	32	0÷16	3 ÷ 4	90	304 stainless steel
ASX21-Y050*-06312	2/2 NC	50	2″	45	52	0 ÷ 9	3 ÷ 7	63	304 stainless steel
ASX21-Y050*-09012	2/2 NC	50	2″	45	52	0÷16	3 ÷ 4.5	90	304 stainless steel
ASX21-Y050*-12582	2/2 NC	50	2″	45	52	0÷16	3 ÷ 4	125	aluminium
ASX21-Y065*-09012	2/2 NC	65	2 1/2"	61	83.2	0÷10	3 ÷ 6	90	304 stainless steel
ASX21-Y065*-12582	2/2 NC	65	2 1/2"	61	83.2	0÷16	3 ÷ 4	125	aluminium
ASX21-Y080*-12582	2/2 NC	80	3"	80	119	0÷12	3 ÷ 7	125	aluminium

Series ASX angle seat valve - 2/2-way NO - pressure under the seat

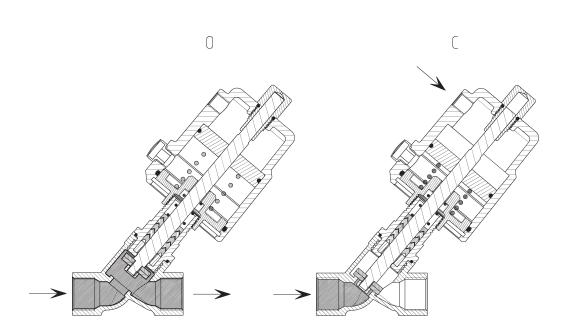


The valves with flow direction under the seat are suitable for uncompressible fluids. This function prevents the hydraulic water hammer effect. NOTE TO THE TABLE: The indicated models are suitable for operating temperatures from -10 to +180 °C. For higher

temperatures, please see the CODING EXAMPLE. * to complete the code add BODY CONNECTION.

VP 18 ΜŴ 10

DRAWING LEGEND: C = valve in closed position O = valve in open position



DIMENCION

DIMENSIONS									
Mod.	Function	DN	Ports	Orifice Ø (mm)	Kv (m³/h)	Differential pressure min ÷ max (bar)	Minimum piloting pressure (bar)	Actuator Ø (mm)	Actuator material
ASX20-W008*-04012	2/2 NO	8	1/4"	13	2.2	0 ÷ 16	3 ÷ 5	40	304 stainless steel
ASX20-W008*-05012	2/2 NO	8	1/4"	13	2.2	0÷16	3 ÷ 4	50	304 stainless steel
ASX20-W010*-04012	2/2 NO	10	3/8″	13	3.9	0 ÷ 16	3 ÷ 5	40	304 stainless steel
ASX20-W010*-05012	2/2 NO	10	3/8"	13	3.9	0÷16	3 ÷ 4	50	304 stainless steel
ASX20-W015*-04012	2/2 NO	15	1/2"	13	4.3	0 ÷ 16	3 ÷ 5	40	304 stainless steel
ASX20-W015*-05012	2/2 NO	15	1/2"	13	4.3	0÷16	3 ÷ 4	50	304 stainless steel
ASX20-W020*-05012	2/2 NO	20	3/4"	18	7.6	0÷16	3 ÷ 6	50	304 stainless steel
ASX20-W025*-05012	2/2 NO	25	1″	24	15.8	0 ÷ 13	3 ÷ 6	50	304 stainless steel
ASX20-W025*-06312	2/2 NO	25	1″	24	15.8	0÷16	3 ÷ 5	63	304 stainless steel
ASX20-W032*-06312	2/2 NO	32	1 1/4"	31	26	0 ÷ 13	3 ÷ 6	63	304 stainless steel
ASX20-W040*-06312	2/2 NO	40	1 1/2"	35	32	0 ÷ 7	3 ÷ 6	63	304 stainless steel
ASX20-W040*-09012	2/2 NO	40	1 1/2"	35	32	0÷16	3 ÷ 3.5	90	304 stainless steel
ASX20-W050*-06312	2/2 NO	50	2"	45	52	0 ÷ 5	3 ÷ 6	63	304 stainless steel
ASX20-W050*-09012	2/2 NO	50	2"	45	52	0÷12	3 ÷ 6	90	304 stainless steel
ASX20-W065*-09012	2/2 NO	65	2 1/2"	61	83.2	0 ÷ 7.5	3 ÷ 5	90	304 stainless steel
ASX20-W065*-12582	2/2 NO	65	2 1/2"	61	83.2	0÷14	3 ÷ 7	125	aluminium
ASX20-W080*-12582	2/2 NO	80	3″	80	119	0 ÷ 12	3 ÷ 7	125	aluminium

DRAWING LEGEND: C = valve in closed position

0 = valve in open position

Series ASX angle seat valve - 2/2-way NO - pressure above the seat

The valves with flow direction above the seat are suitable for compressible fluids.

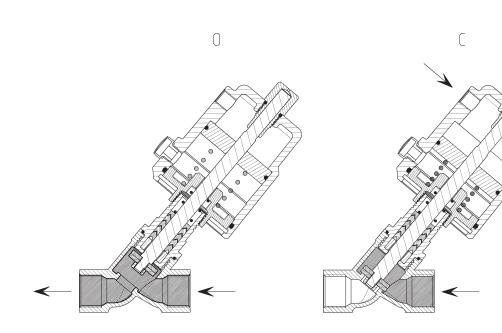


NOTE TO THE TABLE:

The indicated models are suitable for operating temperatures from -10 to +180 °C. For higher temperatures, please see the CODING EXAMPLE. * to complete the code add BODY CONNECTION.







DIMENSIONS									
Mod.	Function	DN	Ports	Orifice Ø (mm)	Kv (m³/h)	Differential pressure min ÷ max (bar)	Minimum piloting pressure (bar)	Actuator Ø (mm)	Actuator material
ASX20-Y008*-04012	2/2 NO	8	1/4″	13	2.2	0÷16	≥ 3	40	304 stainless steel
ASX20-Y008*-05012	2/2 NO	8	1/4″	13	2.2	0÷16	≥ 3	50	304 stainless steel
ASX20-Y010*-04012	2/2 NO	10	3/8″	13	3.9	0÷16	≥ 3	40	304 stainless steel
ASX20-Y010*-05012	2/2 NO	10	3/8″	13	3.9	0 ÷ 16	≥ 3	50	304 stainless steel
ASX20-Y015*-04012	2/2 NO	15	1/2"	13	4.3	0÷16	≥ 3	40	304 stainless steel
ASX20-Y015*-05012	2/2 NO	15	1/2"	13	4.3	0 ÷ 16	≥ 3	50	304 stainless steel
ASX20-Y020*-05012	2/2 NO	20	3/4″	18	7.6	0 ÷ 12	≥ 3	50	304 stainless steel
ASX20-Y025*-05012	2/2 NO	25	1″	24	15.8	0 ÷ 3	≥ 3	50	304 stainless steel
ASX20-Y025*-06312	2/2 NO	25	1″	24	15.8	0÷16	≥ 4.5	63	304 stainless steel
ASX20-Y032*-06312	2/2 NO	32	11/4"	31	26	0÷14	≥ 4.5	63	304 stainless steel
ASX20-Y040*-06312	2/2 NO	40	1 1/2"	35	32	0÷14	≥ 4.5	63	304 stainless steel

0 ÷ 6

≥ 4.5

63

52

2/2 NO

50

2″

45

ASX20-Y050*-06312

304 stainless steel

SERIES ASX ANGLE SEAT VALVES

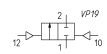
Series ASX angle seat valve - 2/2-way DA - pressure under the seat



The valves with flow direction under the seat are suitable for uncompressible fluids. This function prevents the hydraulic water hammer effect. NOTE TO THE TABLE: The indicated models are suitable for operating

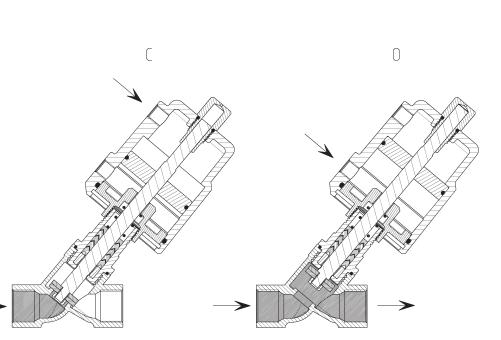


temperatures from -10 to +180 °C. For higher temperatures, please see the CODING EXAMPLE. * to complete the code add BODY CONNECTION.



DRAWING LEGEND: C = valve in closed position

0 = valve in open position



DIMENSIONS									
Mod.	Function	DN	Ports	Orifice Ø (mm)	Kv (m³/h)	Differential pressure min ÷ max (bar)	Minimum piloting pressure (bar)	Actuator Ø (mm)	Actuator material
ASX23-W008*-04012	2/2 DA	8	1/4"	13	2.2	0÷16	3 ÷ 4	40	304 stainless steel
ASX23-W008*-05012	2/2 DA	8	1/4"	13	2.2	0 ÷ 16	3 ÷ 4	50	304 stainless steel
ASX23-W010*-04012	2/2 DA	10	3/8"	13	3.9	0÷16	3 ÷ 4	40	304 stainless steel
ASX23-W010*-05012	2/2 DA	10	3/8"	13	3.9	0÷16	3 ÷ 4	50	304 stainless steel
ASX23-W015*-04012	2/2 DA	15	1/2"	13	4.3	0 ÷ 16	3 ÷ 4	40	304 stainless steel
ASX23-W015*-05012	2/2 DA	15	1/2"	13	4.3	0÷16	3 ÷ 4	50	304 stainless steel
ASX23-W020*-05012	2/2 DA	20	3/4"	18	7.6	0÷16	3 ÷ 4	50	304 stainless steel
ASX23-W025*-05012	2/2 DA	25	1″	24	15.8	0÷16	3 ÷ 6.5	50	304 stainless steel
ASX23-W025*-06312	2/2 DA	25	1″	24	15.8	0÷16	3 ÷ 5.5	63	304 stainless steel
ASX23-W032*-06312	2/2 DA	32	1 1/4"	31	26	0÷16	3 ÷ 7	63	304 stainless steel
ASX23-W032*-09012	2/2 DA	32	1 1/4"	31	26	0÷16	3 ÷ 4.5	90	304 stainless steel
ASX23-W040*-06312	2/2 DA	40	1 1/2"	35	32	0 ÷ 12	3 ÷ 7.5	63	304 stainless steel
ASX23-W040*-09012	2/2 DA	40	1 1/2"	35	32	0÷16	3 ÷ 5	90	304 stainless steel
ASX23-W050*-06312	2/2 DA	50	2″	45	52	0 ÷ 4	3 ÷ 7.5	63	304 stainless steel
ASX23-W050*-09012	2/2 DA	50	2″	45	52	0÷16	3 ÷ 6	90	304 stainless steel
ASX23-W050*-12582	2/2 DA	50	2″	45	52	0 ÷ 16	3 ÷ 4	125	aluminium
ASX23-W065*-09012	2/2 DA	65	2 1/2"	61	83.2	0÷10	3 ÷ 7.5	90	304 stainless steel
ASX23-W065*-12582	2/2 DA	65	2 1/2"	61	83.2	0÷16	3 ÷ 6	125	aluminium
ASX23-W080*-12582	2/2 DA	80	3″	80	119	0÷10	3 ÷ 7	125	aluminium
ASX13-W100F2-12582	2/2 DA	100	4"	90	132	0 ÷ 8	3 ÷ 7.5	125	aluminium

DRAWING LEGEND: C = valve in closed position

0 = valve in open position

SERIES ASX ANGLE SEAT VALVES

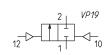
Series ASX angle seat valve - 2/2-way DA - pressure above the seat

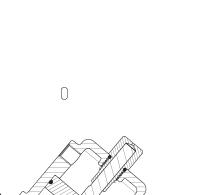
The valves with flow direction above the seat are suitable for compressible fluids.

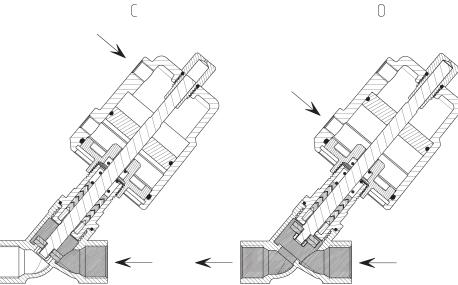


NOTE TO THE TABLE:

The indicated models are suitable for operating temperatures from -10 to +180 °C. For higher temperatures, please see the CODING EXAMPLE. * to complete the code add BODY CONNECTION.





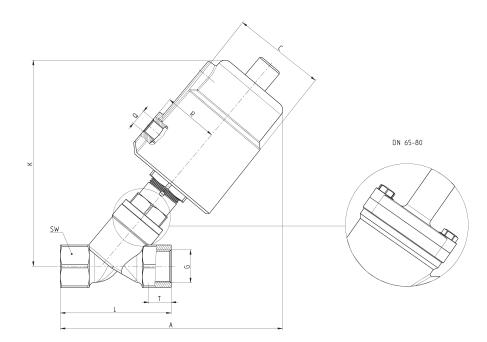


DIMENSIO

DIMENSIONS									
Mod.	Function	DN	Ports	Orifice Ø (mm)	Kv (m³/h)	Differential pressure min ÷ max (bar)	Minimum piloting pressure (bar)	Actuator Ø (mm)	Actuator material
ASX23-Y008*-04012	2/2 DA	8	1/4"	13	2.2	0÷16	3 ÷ 4.5	40	304 stainless steel
ASX23-Y008*-05012	2/2 DA	8	1/4"	13	2.2	0÷16	3 ÷ 3.5	50	304 stainless steel
ASX23-Y010*-04012	2/2 DA	10	3/8″	13	3.9	0÷16	3 ÷ 4.5	40	304 stainless steel
ASX23-Y010*-05012	2/2 DA	10	3/8″	13	3.9	0÷16	3 ÷ 3.5	50	304 stainless steel
ASX23-Y015*-04012	2/2 DA	15	1/2"	13	4.3	0÷16	3 ÷ 4.5	40	304 stainless steel
ASX23-Y015*-05012	2/2 DA	15	1/2"	13	4.3	0÷16	3 ÷ 3.5	50	304 stainless steel
ASX23-Y020*-05012	2/2 DA	20	3/4"	18	7.6	0÷16	3 ÷ 4	50	304 stainless steel
ASX23-Y025*-05012	2/2 DA	25	1″	24	15.8	0÷16	3 ÷ 4.5	50	304 stainless steel
ASX23-Y025*-06312	2/2 DA	25	1″	24	15.8	0÷16	3 ÷ 3.5	63	304 stainless steel
ASX23-Y032*-06312	2/2 DA	32	11/4"	31	26	0÷16	3 ÷ 5.5	63	304 stainless steel
ASX23-Y032*-09012	2/2 DA	32	11/4"	31	26	0÷16	3 ÷ 4	90	304 stainless steel
ASX23-Y040*-06312	2/2 DA	40	1 1/2"	35	32	0÷16	3 ÷ 6.5	63	304 stainless steel
ASX23-Y040*-09012	2/2 DA	40	1 1/2"	35	32	0÷16	3 ÷ 4	90	304 stainless steel
ASX23-Y050*-06312	2/2 DA	50	2″	45	52	0 ÷ 10	3 ÷ 7	63	304 stainless steel
ASX23-Y050*-09012	2/2 DA	50	2"	45	52	0÷16	3 ÷ 4.5	90	304 stainless steel
ASX23-Y050*-12582	2/2 DA	50	2″	45	52	0÷16	3 ÷ 4	125	aluminium
ASX23-Y065*-09012	2/2 DA	65	2 1/2"	61	83.2	0÷10	3 ÷ 6	90	304 stainless steel
ASX23-Y065*-12582	2/2 DA	65	2 1/2"	61	83.2	0÷16	3 ÷ 4	125	aluminium
ASX23-Y080*-12582	2/2 DA	80	3″	80	119	0 ÷ 12	3 ÷ 7	125	aluminium

Series ASX angle seat valve - dimensions and weight - threaded version

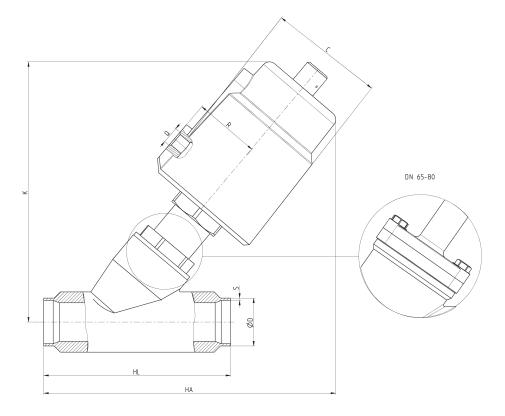




DIME	NSIONS										WEI	GHT
DN	Actuator Ø (mm)	G	T	A	L	SW	C	R	К	Q	Below seat (Kgs)	Above seat (Kgs)
8	40	1/4"	12	124	68	27	50.5	27	112	1/8″	0.9	0.9
8	50	1/4"	12	135	68	27	60	33	125	1/8″	1.1	1.1
10	40	3/8"	12	124	68	27	50.5	27	112	1/8″	0.9	0.9
10	50	3/8"	12	135	68	27	60	33	125	1/8″	1.1	1.1
15	40	1/2"	15	124	68	27	50.5	27	112	1/8″	0.9	0.9
15	50	1/2"	15	135	68	27	60	33	125	1/8″	1.1	1.1
20	50	3/4"	16	140	75	32	60	33	132	1/8″	1.2	1.2
25	50	1″	17	150	90	40	60	33	136	1/8″	1.5	1.5
25	63	1″	17	172	90	40	75	41	162	1/8″	2.2	2.1
32	63	11/4"	21	190	116	50	75	41	174	1/8″	2.8	2.7
32	90	11/4"	21	235	116	50	106	55	223	1/8″	5.0	4.3
40	63	1 1/2"	21	190	116	56	75	41	175	1/8″	2.8	2.8
40	90	1 1/2"	21	235	116	56	106	55	223	1/8″	5.2	4.5
50	63	2″	22	205	138	69	75	41	183	1/8″	3.5	3.5
50	90	2″	22	250	138	69	106	55	232	1/8″	6.1	5.4
50	125	2″	22	305	138	69	170	85	300	1/4″	6.8	6.5
65	90	2 1/2"	26	275	178	85	106	55	280	1/8″	8.5	8.0
65	125	2 1/2"	26	320	178	85	170	85	330	1/4″	10.7	-
80	125	3″	27	340	210	100	170	85	355	1/4″	14.1	-

Series ASX angle seat valve - dimensions and weight - welding ends version



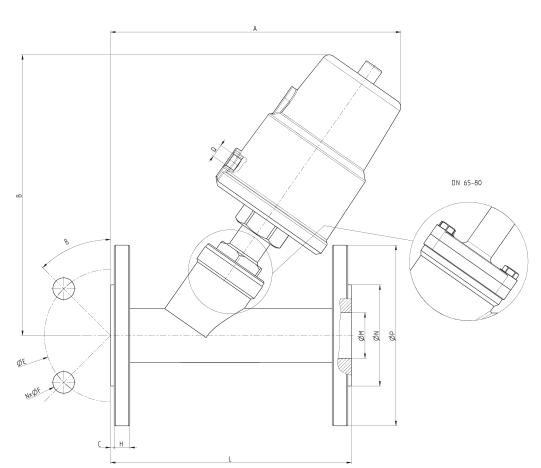


DIM	ENSIONS											WEIGH	Т
DN	Actuator Ø (mm)	DIN11850-2 ØD	DIN11850-2 S	DIN11850-3 ØD	DIN11850-3 S	HA	HL	C	R	К	Q	Below seat (Kgs)	Above seat (Kgs)
15	40	19	1.5	20	2	118	70	50.5	27	112	1/8″	0.9	0.9
15	50	19	1.5	20	2	128	70	60	33	125	1/8″	1.1	1.1
20	50	23	1.5	24	2	135	82	60	33	132	1/8″	1.2	1.2
25	50	29	1.5	30	2	150	100	60	33	136	1/8″	1.5	1.5
25	63	29	1.5	30	2	175	100	75	41	162	1/8″	2.2	2.1
32	63	35	1.5	36	2	186	125	75	41	174	1/8″	2.6	2.5
32	90	35	1.5	36	2	232	125	106	55	223	1/8″	4.9	4.2
40	63	41	1.5	42	2	190	130	75	41	175	1/8″	2.8	2.8
40	90	41	1.5	42	2	235	130	106	55	223	1/8″	5.1	4.4
50	63	53	1.5	54	2	206	155	75	41	183	1/8″	3.4	3.4
50	90	53	1.5	54	2	250	155	106	55	232	1/8″	6.0	5.3
50	125	53	1.5	54	2	307	155	170	85	300	1/4″	6.7	6.5
65	90	70	2	-	-	320	270	106	55	280	1/8″	8.8	12.9
65	125	70	2	-	-	360	270	170	85	330	1/4"	10.7	-
80	125	85	2	-	-	360	284	170	85	355	1/4″	14.0	-

SERIES ASX ANGLE SEAT VALVES

Series ASX angle seat valve - dimensions and weight - flanged version

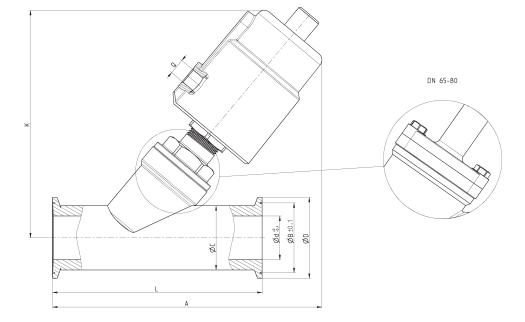




DIME	NSIONS													WEIGH	т
DN	Actuator Ø (mm)	ØM	ØN	ØP	ØE	NxØF	ß	А	В	L	C	Н	Q	Below seat (Kgs)	Above seat (Kgs)
15	40	16	45	95	65	4x14	45°	135	125	130	2	14	1/8″	2.1	2.1
15	50	16	45	95	65	4x14	45°	145	140	130	2	14	1/8″	2.4	2.4
20	50	19	56	105	75	4x14	45°	165	140	150	2	14	1/8″	2.9	2.9
25	50	26	65	115	85	4x14	45°	170	145	160	2	14	1/8″	3.5	3.5
25	63	26	65	115	85	4x14	45°	190	175	160	2	14	1/8″	5.6	5.5
32	63	31	78	140	100	4x18	45°	190	188	180	2	16	1/8″	5.8	5.7
32	90	31	78	140	100	4x18	45°	230	235	180	2	16	1/8″	8.0	7.3
40	63	38	84	150	110	4x18	45°	206	190	200	3	16	1/8″	6.6	6.5
40	90	38	84	150	110	4x18	45°	250	240	200	3	16	1/8″	9.0	8.3
50	63	49	100	165	125	4x18	45°	235	195	230	3	16	1/8″	8.1	8.0
50	90	49	100	165	125	4x18	45°	277	245	230	3	16	1/8″	10.4	9.7
50	125	49	100	165	125	4x18	45°	330	310	230	3	16	1/4"	13.3	13.0
65	90	66	120	185	145	4x18	45°	330	280	290	3	18	1/8″	13.8	12.9
65	125	66	120	185	145	4x18	45°	375	330	290	3	18	1/4"	14.7	-
80	125	78	135	200	160	8x18	22.5°	380	355	310	3	20	1/4″	21.9	-
100	125	96	155	215	180	8x18	22.5°	420	395	350	3	20	1/4″	-	-







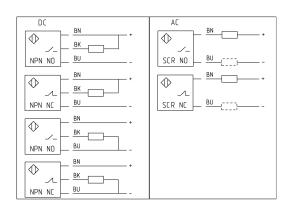
DIME	NSIONS									W	EIGHT
DN	Actuator Ø (mm)	ØC	ØB	Ød	ØD	A	К	L	Q	Below seat (Kgs)	Above seat (Kgs)
15	40	19	27.5	15	34	130	115	80	1/8″	0.9	0.9
15	50	19	27.5	15	34	140	126	80	1/8″	1.1	1.1
20	50	25	43.5	19	50.5	158	148	130	1/8″	1.4	1.4
25	50	32	43.5	27	50.5	165	140	130	1/8″	1.6	1.6
25	63	32	43.5	27	50.5	188	166	130	1/8″	2.3	2.2
32	63	37	43.5	31	50.5	200	174	146	1/8″	2.7	2.6
32	90	37	43.5	31	50.5	245	223	146	1/8″	5.0	4.3
40	63	40	56.5	33	64	210	175	160	1/8″	3.0	2.9
40	90	40	56.5	33	64	255	223	160	1/8″	5.3	4.5
50	63	53	56.5	45	64	221	185	175	1/8″	3.4	2.4
50	90	53	56.5	45	64	265	235	175	1/8″	6.2	5.2
50	125	53	56.5	45	64	325	296	175	1/4"	7.0	6.7
65	90	75	83.5	66	91	325	280	278	1/8″	7.9	7.6
65	125	75	83.5	66	91	360	330	278	1/4"	11.3	-
80	125	89	97	78	106	360	352	290	1/4″	-	-

Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com. SERIES ASX ANGLE SEAT VALVES

Series ASX angle seat valve - options - proximity switch



Available on all models of angle seat valves to control the state of the open valve. Type: NPN, NO or NC - PNP, NO or NC - SCR, NO o NC Switching distance: 3 mm ± 10% Operating temperature: -25 ÷ 70 °C Body material: nickel-plated brass Sensor material: ABS Protection class: IP67

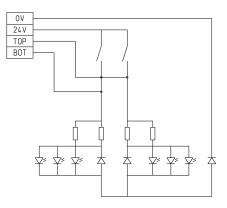


PS1	NPN type - NO contact - 10 ÷ 30 V DC power supply
PS2	NPN type - NC contact - 10 ÷ 30 V DC power supply
PS3	PNP type - NO contact - 10 ÷ 30 V DC power supply
PS4	PNP type - NC contact - 10 ÷ 30 V DC power supply
PS5	SCR type - NO contact - 20 ÷ 250 V AC power supply
PS6	SCR type - NC contact - 20 ÷ 250 V AC power supply

Series ASX angle seat valve - options - position indicator



Available on all models of angle seat valves to control the state of the open and closed valve. Type of limit switch: mechanical micro-switch Operating voltage: 12 ÷ 36 V DC Operating current: 25 mA / 24 V DC Adjustment range: 5 ÷ 30 mm Operating temperature: -30 ÷ 80 °C Housing material: PA6/GF30 + PC Protection class: IP65



Pl1 Position indicator for Ø40 - Ø50 - Ø63 - Ø90 mm actuators PlZ Position indicator for Ø125 mm actuators

Series ASX angle seat valve - options - stroke limiter



Available only for Ø50 - Ø63 - Ø90 mm actuators to limit the actuator's stroke from 0 to 100% in order to adjust the maximum flow.

SL1	Stroke limiter for Ø50 - Ø63 mm actuators
SL2	Stroke limiter for Ø90 mm actuators



Series ASP angle seat valves

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



The Series ASP angle seat valves are an efficient and cost-effective solution for fluid control. Their robustness is suitable for the most varied applications with inert gases and liquids, with steam or with fluids having solid particulates in suspension. Available with 3/8" to 2-1/2" threaded connections.

360° rotatable

- » Differential pressure up to 20 bar
- » High flow
- » Low resistance of the flow
- » Anti-water hammer design
- » Compliant with Directive PED 2014/68/UE

The operation is determined by the pneumatic drive of a single acting, guided piston actuator with spring return. There are also models available with double acting actuators, without spring. For liquid media we recommend the models with flow direction under the seat. For gas or steam we recommend the models with flow direction above the seat.

GENERAL DATA

Actuator position

TECHNICAL FEATURES	
Function Operation Pneumatic connections Nominal diameter Flow coefficient Kv (m ³ /h) Operating pressure Operating temperature Media Viscosity Installation	2/2 NC - 2/2 NO - 2/2 Double Acting pneumatic, poppet type 3/8 2-1/2" with BSP thread (NPT on demand) DN10 DN65 2.6 65 0 ÷ 6 20 bar -20 ÷ 130 °C water, air, steam, inert liquids and gases (compatible with the materials in contact) 600 cSt. max in any position
MATERIALS IN CONTACT WITH THE MEDIUM	I
Body Seals Internal parts	brass EPDM 304 stainless steel
SPECIFICATIONS PNEUMATIC ACTUATOR	
Actuator dimensions Actuator material Piston material Piston seal material Piloting fluid Piloting pressure	Ø50 - Ø63 - Ø80 - Ø100 mm PA66 polyamide 30% GF aluminium PUR air or inert gases 10 bar max.

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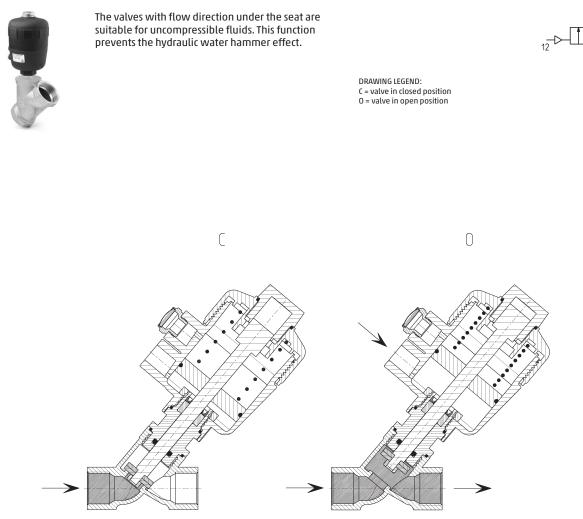
CAMOZZI

CODING EXAMPLE

AS	P A 1 - W 015 G1 - 050 P 2
[
AS	SERIES
Ρ	TYPE OF ACTUATOR P = technopolymer actuator
Α	BODY MATERIAL A = brass
1	NUMBER OF WAYS - FUNCTIONS 0 = 2/2-way NO 1 = 2/2-way NC 3 = 2/2-way DA (Double Acting)
W	FLOW DIRECTION W = under the seat (liquids and gases, anti-water hammer) Y = above the seat (gases)
015	NOMINAL DIAMETER 010 = DN 10 015 = DN 15 020 = DN 20 025 = DN 25 032 = DN 32 040 = DN 40 050 = DN 50 065 = DN 65
G1	BODY CONNECTION G1 = BSP thread DIN 228-1 N1 = NPT thread ASME B1.20.1 (on demand)
050	ACTUATOR DIMENSION 050 = Ø50 mm 063 = Ø63 mm 080 = Ø80 mm 100 = Ø100 mm
Ρ	ACTUATOR MATERIAL P = PA66 polyammide 30% GF
2	SEALS 2 = for standard temperatures -20 ÷ 130 °C

*VP1*4

Series ASP angle seat valve - 2/2-way NC - pressure under the seat



Mod.	Function	DN	Ports	Orifice Ø (mm)	Kv (m³/h)	Differential pressure min ÷ max (bar)	Minimum piloting pressure (bar)	Actuator Ø(mm)	Actuator material
ASPA1-W010G1-050P2	2/2 NC	10	G3/8″	12	2.6	0 ÷ 20	≥ 6	50	PA66
ASPA1-W015G1-050P2	2/2 NC	15	G1/2″	12	3.5	0÷18	≥ 6	50	PA66
ASPA1-W015G1-063P2	2/2 NC	15	G1/2″	12	3.5	0 ÷ 20	≥ 6	63	PA66
ASPA1-W020G1-050P2	2/2 NC	20	G3/4″	17	8.6	0÷14	≥ 6	50	PA66
ASPA1-W020G1-063P2	2/2 NC	20	G3/4″	17	8.6	0÷18	≥ 6	63	PA66
ASPA1-W025G1-050P2	2/2 NC	25	G1″	21	9.7	0 ÷ 9	≥ 6	50	PA66
ASPA1-W025G1-063P2	2/2 NC	25	G1″	21	9.7	0÷14	≥ 6	63	PA66
ASPA1-W032G1-063P2	2/2 NC	32	G1 1/4"	30	26.7	0 ÷ 10	≥ 6	63	PA66
ASPA1-W032G1-080P2	2/2 NC	32	G1 1/4"	30	26.7	0÷16	≥ 6	80	PA66
ASPA1-W040G1-080P2	2/2 NC	40	G1 1/2″	37	40.4	0÷11	≥ 6	80	PA66
ASPA1-W040G1-100P2	2/2 NC	40	G1 1/2″	37	40.4	0 ÷ 20	≥ 6	100	PA66
ASPA1-W050G1-080P2	2/2 NC	50	G2″	46	55	0 ÷ 6	≥ 6	80	PA66
ASPA1-W050G1-100P2	2/2 NC	50	G2″	46	55	0 ÷ 12	≥ 6	100	PA66
ASPA1-W065G1-100P2	2/2 NC	65	2 1/2"	59	65	0 ÷ 6	≥ 6	100	PA66

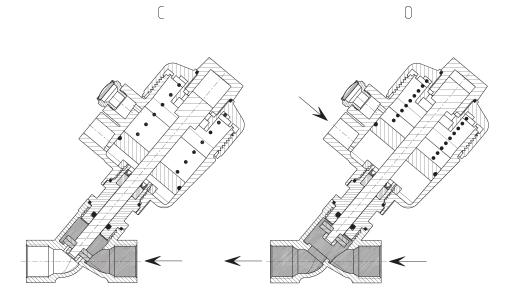
Series ASP angle seat valve - 2/2-way NC - pressure above the seat



The valves with flow direction above the seat are suitable for compressible fluids.



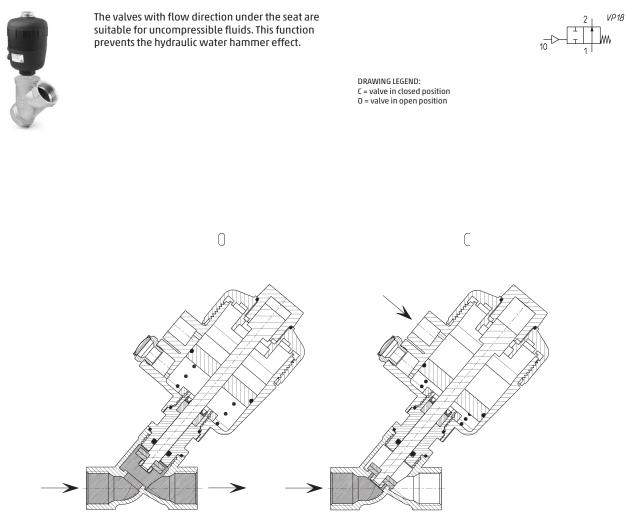
DRAWING LEGEND: C = valve in closed position O = valve in open position



Mod.	Function	DN	Ports	Orifice Ø (mm)	Kv (m³/h)	Differential pressure min ÷ max (bar)	Minimum piloting pressure (bar)	Actuator Ø(mm)	Actuator material
ASPA1-Y010G1-050P2	2/2 NC	10	G3/8″	12	2.6	0 ÷ 20	≥ 6	50	PA66
ASPA1-Y015G1-050P2	2/2 NC	15	G1/2″	12	3.5	0 ÷ 20	≥ 6	50	PA66
ASPA1-Y015G1-063P2	2/2 NC	15	G1/2″	12	3.5	0 ÷ 20	≥ 6	63	PA66
ASPA1-Y020G1-050P2	2/2 NC	20	G3/4″	17	8.6	0 ÷ 20	≥ 6	50	PA66
ASPA1-Y020G1-063P2	2/2 NC	20	G3/4″	17	8.6	0 ÷ 20	≥ 6	63	PA66
ASPA1-Y025G1-050P2	2/2 NC	25	G1″	21	9.7	0 ÷ 20	6 ÷ 8.8	50	PA66
ASPA1-Y025G1-063P2	2/2 NC	25	G1″	21	9.7	0 ÷ 20	≥ 6	63	PA66
ASPA1-Y032G1-063P2	2/2 NC	32	G11/4"	30	26.7	0 ÷ 20	6 ÷ 8	63	PA66
ASPA1-Y032G1-080P2	2/2 NC	32	G11/4"	30	26.7	0 ÷ 20	6 ÷ 7.5	80	PA66
ASPA1-Y040G1-080P2	2/2 NC	40	G11/2"	37	40.4	0 ÷ 20	6 ÷ 9	80	PA66
ASPA1-Y040G1-100P2	2/2 NC	40	G11/2″	37	40.4	0 ÷ 20	6 ÷ 6.7	100	PA66
ASPA1-Y050G1-080P2	2/2 NC	50	G2″	46	55	0÷14	6 ÷ 10	80	PA66
ASPA1-Y050G1-100P2	2/2 NC	50	G2″	46	55	0 ÷ 20	6 ÷ 7.8	100	PA66
ASPA1-Y065G1-100P2	2/2 NC	65	2 1/2"	59	65	0 ÷ 16	6 ÷ 8.2	100	PA66

SERIES ASP ANGLE SEAT VALVES

Series ASP angle seat valve - 2/2-way NO - pressure under the seat

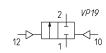


Mod.	Function	DN	Ports	Orifice Ø (mm)	Kv (m³/h)	Differential pressure min ÷ max (bar)	Minimum piloting pressure (bar)	Actuator Ø(mm)	Actuator material
ASPA0-W010G1-050P2	2/2 NO	10	G3/8″	12	2.6	0 ÷ 20	≥ 6	50	PA66
ASPA0-W015G1-050P2	2/2 NO	15	G1/2″	12	3.5	0 ÷ 20	≥6	50	PA66
ASPA0-W015G1-063P2	2/2 NO	15	G1/2″	12	3.5	0 ÷ 20	≥ 6	63	PA66
ASPA0-W020G1-050P2	2/2 NO	20	G3/4″	17	8.6	0 ÷ 20	6 ÷ 6.3	50	PA66
ASPAO-W020G1-063P2	2/2 NO	20	G3/4″	17	8.6	0 ÷ 20	≥ 6	63	PA66
ASPA0-W025G1-050P2	2/2 NO	25	G1″	21	9.7	0 ÷ 20	6 ÷ 8.7	50	PA66
ASPA0-W025G1-063P2	2/2 NO	25	G1″	21	9.7	0 ÷ 20	6 ÷ 6.3	63	PA66
ASPA0-W032G1-063P2	2/2 NO	32	G1 1/4"	30	26.7	0 ÷ 20	6 ÷ 9.3	63	PA66
ASPA0-W032G1-080P2	2/2 NO	32	G1 1/4"	30	26.7	0 ÷ 20	≥6	80	PA66
ASPA0-W040G1-080P2	2/2 NO	40	G1 1/2"	37	40.4	0 ÷ 20	6 ÷ 8.5	80	PA66
ASPA0-W040G1-100P2	2/2 NO	40	G1 1/2"	37	40.4	0 ÷ 20	≥6	100	PA66
ASP01-W050G1-080P2	2/2 NO	50	G2″	46	55	0 ÷ 16	6÷10	80	PA66
ASPAO-W050G1-100P2	2/2 NO	50	G2″	46	55	0 ÷ 20	6 ÷ 7.4	100	PA66
ASPA0-W065G1-100P2	2/2 NO	65	2 1/2"	59	65	0÷14	6÷10	100	PA66

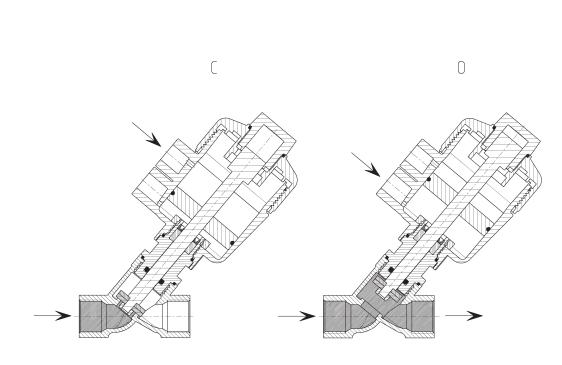
Series ASP angle seat valve - 2/2-way DA - pressure under the seat



The valves with flow direction under the seat are suitable for uncompressible fluids. This function prevents the hydraulic water hammer effect.



SERIES ASP ANGLE SEAT VALVES



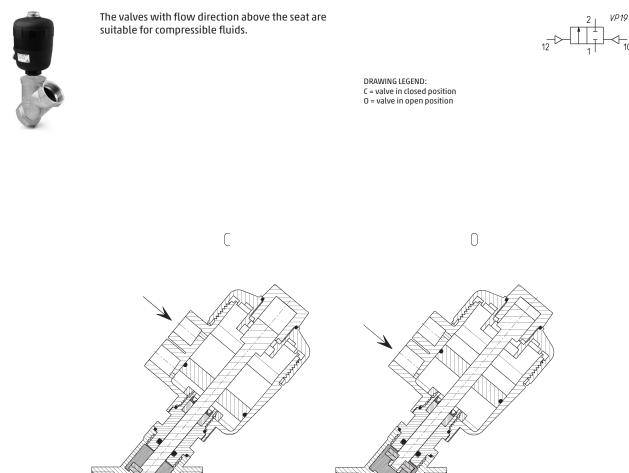
DRAWING LEGEND: C = valve in closed position O = valve in open position

Function 2/2 DE	DN 10	Ports	Orifice Ø (mm)	Kv (m³/h)	Differential pressure	Minimum piloting	Actuator	Actuator
2/2 DE	10			(/11)	min ÷ max (bar)	pressure (bar)	Ø(mm)	material
	10	G3/8″	12	2.6	0 ÷ 20	≥ 6	50	PA66
2/2 DE	15	G1/2″	12	3.5	0 ÷ 20	≥ 6	50	PA66
2/2 DE	15	G1/2″	12	3.5	0 ÷ 20	≥ 6	63	PA66
2/2 DE	20	G3/4″	17	8.6	0 ÷ 20	≥ 6	50	PA66
2/2 DE	20	G3/4″	17	8.6	0 ÷ 20	≥ 6	63	PA66
2/2 DE	25	G1″	21	9.7	0 ÷ 20	6 ÷ 8.3	50	PA66
2/2 DE	25	G1″	21	9.7	0 ÷ 20	≥ 6	63	PA66
2/2 DE	32	G1 1/4"	30	26.7	0 ÷ 20	6 ÷ 8	63	PA66
2/2 DE	32	G1 1/4"	30	26.7	0 ÷ 20	≥ 6	80	PA66
2/2 DE	40	G1 1/2"	37	40.4	0 ÷ 20	6 ÷ 7.7	80	PA66
2/2 DE	40	G1 1/2"	37	40.4	0 ÷ 20	≥ 6	100	PA66
2/2 DE	50	G2″	46	55	0 ÷ 16	6÷10	80	PA66
2/2 DE	50	G2″	46	55	0 ÷ 20	6 ÷ 6.7	100	PA66
2/2 DE	65	2 1/2"	59	65	0÷14.5	6÷10	100	PA66
	2/2 DE 2/2 DE	2/2 DE 15 2/2 DE 20 2/2 DE 20 2/2 DE 25 2/2 DE 25 2/2 DE 32 2/2 DE 32 2/2 DE 40 2/2 DE 50 2/2 DE 50 2/2 DE 50	Z/2 DE 15 G1/2" Z/2 DE 20 G3/4" Z/2 DE 20 G3/4" Z/2 DE 25 G1" Z/2 DE 25 G1" Z/2 DE 25 G1" Z/2 DE 32 G1 1/4" Z/2 DE 32 G1 1/4" Z/2 DE 40 G1 1/2" Z/2 DE 50 G2" Z/2 DE 50 G2"	2/2 DE 15 G1/2" 12 2/2 DE 20 G3/4" 17 2/2 DE 20 G3/4" 17 2/2 DE 20 G3/4" 17 2/2 DE 25 G1" 21 2/2 DE 25 G1" 21 2/2 DE 32 G1 1/4" 30 2/2 DE 32 G1 1/4" 30 2/2 DE 40 G1 1/2" 37 2/2 DE 50 G2" 46 2/2 DE 50 G2" 46	Z/2 DE 15 G1/2" 12 3.5 Z/2 DE 20 G3/4" 17 8.6 Z/2 DE 25 G1" 21 9.7 Z/2 DE 25 G1" 21 9.7 Z/2 DE 32 G1 1/4" 30 26.7 Z/2 DE 32 G1 1/4" 30 26.7 Z/2 DE 40 G1 1/2" 37 40.4 Z/2 DE 40 G1 1/2" 37 40.4 Z/2 DE 50 G2" 46 55 Z/2 DE 50 G2" 46 55	$2/2$ DE15 $61/2"$ 12 3.5 $0 \div 20$ $2/2$ DE20 $63/4"$ 17 8.6 $0 \div 20$ $2/2$ DE20 $63/4"$ 17 8.6 $0 \div 20$ $2/2$ DE20 $63/4"$ 17 8.6 $0 \div 20$ $2/2$ DE25 $61"$ 21 9.7 $0 \div 20$ $2/2$ DE25 $61"$ 21 9.7 $0 \div 20$ $2/2$ DE32 $611/4"$ 30 26.7 $0 \div 20$ $2/2$ DE32 $611/4"$ 30 26.7 $0 \div 20$ $2/2$ DE40 $611/2"$ 37 40.4 $0 \div 20$ $2/2$ DE40 $611/2"$ 37 40.4 $0 \div 20$ $2/2$ DE50 $62"$ 46 55 $0 \div 16$ $2/2$ DE50 $62"$ 46 55 $0 \div 20$	$2/2 \text{ DE}$ 15 $61/2"$ 12 3.5 $0 \div 20$ ≥ 6 $2/2 \text{ DE}$ 20 $63/4"$ 17 8.6 $0 \div 20$ ≥ 6 $2/2 \text{ DE}$ 20 $63/4"$ 17 8.6 $0 \div 20$ ≥ 6 $2/2 \text{ DE}$ 20 $63/4"$ 17 8.6 $0 \div 20$ ≥ 6 $2/2 \text{ DE}$ 25 $61"$ 21 9.7 $0 \div 20$ ≤ 6 $2/2 \text{ DE}$ 25 $61"$ 21 9.7 $0 \div 20$ ≥ 6 $2/2 \text{ DE}$ 32 $611/4"$ 30 26.7 $0 \div 20$ ≤ 6 $2/2 \text{ DE}$ 32 $611/4"$ 30 26.7 $0 \div 20$ ≥ 6 $2/2 \text{ DE}$ 40 $611/2"$ 37 40.4 $0 \div 20$ ≤ 6 $2/2 \text{ DE}$ 40 $611/2"$ 37 40.4 $0 \div 20$ ≥ 6 $2/2 \text{ DE}$ 50 $62"$ 46 55 $0 \div 16$ $6 \div 10$ $2/2 \text{ DE}$ 50 $62"$ 46 55 $0 \div 20$ $6 \div 6.7$	$2/2 \text{ DE}$ 15 $61/2"$ 12 3.5 $0 \div 20$ ≥ 6 63 $2/2 \text{ DE}$ 20 $63/4"$ 17 8.6 $0 \div 20$ ≥ 6 50 $2/2 \text{ DE}$ 20 $63/4"$ 17 8.6 $0 \div 20$ ≥ 6 63 $2/2 \text{ DE}$ 20 $63/4"$ 17 8.6 $0 \div 20$ ≥ 6 63 $2/2 \text{ DE}$ 25 $61"$ 21 9.7 $0 \div 20$ $6 \div 8.3$ 50 $2/2 \text{ DE}$ 25 $61"$ 21 9.7 $0 \div 20$ ≥ 6 63 $2/2 \text{ DE}$ 32 $611/4"$ 30 26.7 $0 \div 20$ $e 6 \div 8$ 63 $2/2 \text{ DE}$ 32 $611/4"$ 30 26.7 $0 \div 20$ ≥ 6 80 $2/2 \text{ DE}$ 40 $611/2"$ 37 40.4 $0 \div 20$ $e 6 \div 10$ 80 $2/2 \text{ DE}$ 50 $62"$ 46 55 $0 \div 16$ $6 \div 10$ 80 $2/2 \text{ DE}$ 50 $62"$ 46 55 $0 \div 20$ $e 6 \leftarrow 6.7$ 100

SERIES ASP ANGLE SEAT VALVES

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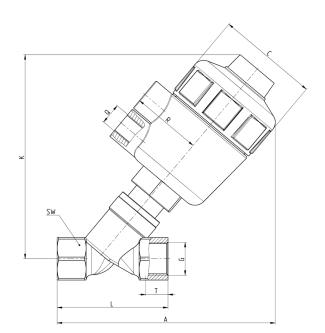
Series ASP angle seat valve - 2/2-way DA - pressure above the seat



Mod.	Function	DN	Ports	Orifice Ø (mm)	Kv (m³/h)	Differential pressure min ÷ max (bar)	Minimum piloting pressure (bar)	Actuator Ø(mm)	Actuator material
ASPA3-Y010G1-050P2	2/2 DE	10	G3/8″	12	2.6	0 ÷ 20	≥ 6	50	PA66
ASPA3-Y015G1-050P2	2/2 DE	15	G1/2″	12	3.5	0 ÷ 20	≥ 6	50	PA66
ASPA3-Y015G1-063P2	2/2 DE	15	G1/2″	12	3.5	0 ÷ 20	≥ 6	63	PA66
ASPA3-Y020G1-050P2	2/2 DE	20	G3/4″	17	8.6	0 ÷ 20	≥ 6	50	PA66
ASPA3-Y020G1-063P2	2/2 DE	20	G3/4″	17	8.6	0 ÷ 20	≥ 6	63	PA66
ASPA3-Y025G1-050P2	2/2 DE	25	G1″	21	9.7	0 ÷ 20	6 ÷ 8.3	50	PA66
ASPA3-Y025G1-063P2	2/2 DE	25	G1″	21	9.7	0 ÷ 20	≥ 6	63	PA66
ASPA3-Y032G1-063P2	2/2 DE	32	G11/4″	30	26.7	0 ÷ 20	6 ÷ 8	63	PA66
ASPA3-Y032G1-080P2	2/2 DE	32	G11/4"	30	26.7	0 ÷ 20	≥ 6	80	PA66
ASPA3-Y040G1-080P2	2/2 DE	40	G11/2″	37	40.4	0 ÷ 20	6 ÷ 7.7	80	PA66
ASPA3-Y040G1-100P2	2/2 DE	40	G11/2"	37	40.4	0 ÷ 20	≥ 6	100	PA66
ASPA3-Y050G1-080P2	2/2 DE	50	G2″	46	55	0 ÷ 16	6 ÷ 10	80	PA66
ASPA3-Y050G1-100P2	2/2 DE	50	G2″	46	55	0 ÷ 20	6 ÷ 6.7	100	PA66
ASPA3-Y065G1-100P2	2/2 DE	65	2 1/2"	59	65	0÷14.5	6÷10	100	PA66

Series ASP angle seat valve - dimensions and weight





DIME	ISIONS										WEIGHT
DN	Actuator Ø (mm)	G	т	А	L	SW	С	R	К	Q	Kg
10	50	3/8"	12	125	49	21	66	45	115	G1/4″	0.8
15	50	1/2"	13	130	55	26	66	45	115	G1/4″	0.9
15	63	1/2"	13	160	55	26	83	52	150	G1/4″	1.2
20	50	3/4"	13.5	135	65.5	31	66	45	115	G1/4″	1.0
20	63	3/4"	13.5	165	65.5	31	83	52	150	G1/4″	1.3
25	50	1″	16	140	76	38	66	45	115	G1/4″	1.3
25	63	1″	16	170	76	38	83	52	150	G1/4″	1.6
32	63	1 1/4"	18	180	96	48	83	52	180	G1/4″	2.1
32	80	1 1/4"	18	210	96	48	103	60	210	G1/4″	1.6
40	80	1 1/2"	18.5	220	101	54	103	60	220	G1/4″	2.6
40	100	1 1/2"	18.5	230	101	54	130	73	230	G1/4″	4.5
50	80	2"	19	230	120	67	103	60	230	G1/4″	2.9
50	100	2"	19	240	120	67	130	73	240	G1/4″	5.3
65	100	2 1/2"	23	250	149	85	130	73	240	G1/4″	6.5



SOLENOIDS

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



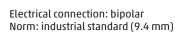
The mechanical part of the tube in the solenoid valves Series A, 3, 4, 9 and NA allows the mounting of various types of solenoids.

- » 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).

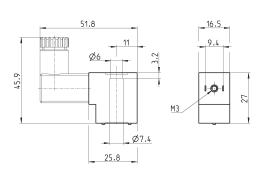
GENERAL DATA

	U7 / G7 / G93	A8	В	Н8
Wire insulation	class F (155° C)	class H (180° C)	class H (200° C)	class H (200° C)
Protection class	IP54 - DIN 40050	IP54 - DIN 40050	IP54 - DIN 40050	IP64
	IP65 (with connector Mod. 122-800 and Mod. 122-800EX)	IP65 (with connector Mod. 124-800)	IP65 (with connector Mod. 124-800)	
Operation	ED 100%	ED 100%	ED 100%	ED 100%
Tolerance VAC	-15% / +10%	-15% / +10%	±10%	-
Tolerance V DC	±10%	±10%	±5%	-

Solenoids Mod. GP...



Solenoid material: PA



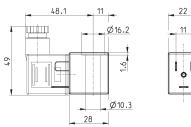
Mod.	Solenoid voltage	Power absorption
GPH	12 V DC	3 W
GP7	24 V DC	3 W

Solenoids Mod. B7...



Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-B

Solenoid material: PA-MXD6



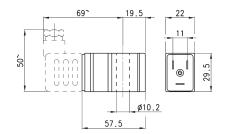
29.3

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			
B7H	24 V - 50/60 Hz	4 VA			
B72	12 V - DC	10 W			
B721	12 V - DC	14 W			
B73	24 V - DC	10 W			
B731	24 V - DC	14 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
G92	12 V DC	18 ms - 10 ms	200 mA - 160 mA
G93	24 V DC	18 ms - 10 ms	100 mA - 80 mA



SOLENOIDS

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.

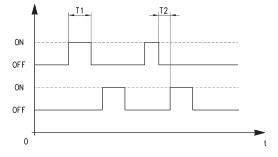
- The impulse control system facilitates the utilization with electronic circuits. The minimum required impulse for the function is 20 ms; if, for circuit reasons, the impulse last for a longer period, there is no danger of heating.

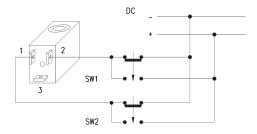
magnet attraction command = Actuation SW1

- 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.

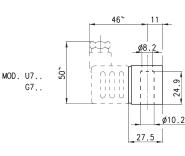




Solenoids Mod. U7... / U7*EX and Mod. G7...

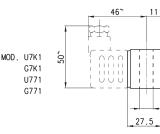


Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-B Solenoid material: U7* = PET; G7* = PA To order the ATEX version of Mod. U7 (not available for Mod. U7F, U7K1 with voltage 125V 50/60Hz) it is necessary to add EX at the end of the code. Mod. U7*EX marked: II 3G Ex nA IIC T4 Gc X IP65 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 - S0/60 Hz 3.5 VA G7H 12 V DC 3.1 W 24V - S0/60 Hz 3.5 VA U7K 110V - S0/60 Hz 3.8 VA 125V - S0/60 Hz 3.5 VA U7K1 110V - S0/60 Hz 3.8 VA 125V - S0/60 Hz 8.3 VA G7K1 110V - S0/60 Hz 3.8 VA 125V - S0/60 Hz 8.3 VA G7K1 110V - S0/60 Hz 3.8 VA 125V - S0/60 Hz 8.3 VA G7H 230V - S0/60 Hz 3.5 VA 240V - S0/60 Hz 4.4 VA G7H 230V - S0/60 Hz 3.5 VA 240V - S0/60 Hz 4.4 VA G7H 48 V DC 3.1 W 48V - S0/60 Hz 3.8 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 4.8 W G7K 110V - 50/60Hz 5.8 VA 125V - 50/60Hz 5.5 VA 72 V DC 4.8 W G7K1 110V - 50/60Hz 5.8 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 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 8.3 VA 72 V DC 5.6 W U79 48 V DC 3.1 W 240V - 50/60Hz 4 VA V S0/60Hz 3.8 VA U710 110 V DC 3.2 W 240V - 50/60Hz 3.8 VA V V U771 24 V DC 3.1 W 48V - 50/60H	Mod.	Sol. volt. (1)	Pow. abs. (1)	Sol. volt. (2)	Pow. abs. (2)	Sol. volt. (3)	Pow. abs. (3)
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 5.8 VA 125V - 50/60Hz 5.5 VA 72 V DC 4.8 W G7K1 110V - 50/60Hz 5.8 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 3.8 VA 125V - 50/60Hz 4.VA 72 V DC 5.6 W U79 48 V DC 3.5 VA 240V - 50/60Hz 4.VA 72 V DC 5.6 W U79 48 V DC 3.1 W 240V - 50/60Hz 4.VA 72 V DC 5.6 W U710 110 V DC 3.2 W 72 V DC 3.8 VA 72 V DC 72 V DC U771 24 V DC 3.1 W 48V - 50/60Hz 3.8 VA 72 V DC 70 V U772 24 V DC 3.1 W	U7H	12 V DC	3.1 W	24V - 50/60 Hz	3.5 VA		
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 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	G7H	12 V DC	3.1 W	24V - 50/60Hz	3.5 VA		
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 G7K1 110V - 50/60Hz 3.5 VA 240V - 50/60Hz 8.3 VA 72 V DC 5.6 W G7J 230V - 50/60Hz 3.5 VA 240V - 50/60Hz 4 VA G7J 230V - 50/60Hz 3.5 VA 240V - 50/60Hz 4 VA G79 48 V DC 3.1 W G710 110 V DC 3.2 W U771 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 U771 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	U7K	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 4 VA G7J 230V - 50/60Hz 3.5 VA 240V - 50/60Hz 4 VA 4 VA U79 48 V DC 3.1 W 4 VA 4 VA 4 VA G79 48 V DC 3.1 W 5 VA 5 VA 5 VA 5 VA U710 110 V DC 3.2 W 5 VA 5 VA 5 VA 5 VA 5 VA U710 110 V DC 3.2 W 5 VA 5 VA 5 VA 5 VA 5 VA 5 VA U717 24 V DC 3.1 W 4 8 V - 50/60 Hz 3.8 VA 5 VA <t< td=""><td>U7K1</td><td>110V - 50/60Hz</td><td>5.8 VA</td><td>125V - 50/60Hz</td><td>8.3 VA</td><td>72 V DC</td><td>5.6 W</td></t<>	U7K1	110V - 50/60Hz	5.8 VA	125V - 50/60Hz	8.3 VA	72 V DC	5.6 W
U71 230V - 50/60Hz 3.5 VA 240V - 50/60Hz 4 VA G71 230V - 50/60Hz 3.5 VA 240V - 50/60Hz 4 VA G79 48 V DC 3.1 W 4 VA G70 110 V DC 3.2 W 50/60Hz 3.8 VA G710 110 V DC 3.2 W 50/60Hz 3.8 VA U77 24 V DC 3.1 W 48V - 50/60Hz 3.8 VA U77 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 G77 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 G77 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 U77 380V - 50/60Hz 7 VA 1000000000000000000000000000000000000	G7K	110V - 50/60Hz	3.8 VA	125V - 50/60Hz	5.5 VA	72 V DC	4.8 W
G71 230V - 50/60Hz 3.5 VA 240V - 50/60Hz 4 VA U79 48 V DC 3.1 W	G7K1	110V - 50/60Hz	5.8 VA	125V - 50/60Hz	8.3 VA	72 V DC	5.6 W
U79 48 V DC 3.1 W G79 48 V DC 3.1 W U710 110 V DC 3.2 W U77 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 G77 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 G77 24 V DC 3.1 W 48V - 50/60Hz 3.8 VA G77 24 V DC 5.1 W U77 380V - 50/60Hz 7 VA U78 12 V DC 5 W U73 24 V DC 5 W	U7J	230V - 50/60Hz	3.5 VA	240V - 50/60Hz	4 VA		
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 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 U77 380V - 50/60Hz 7.VA 3.8 VA U77 12 V DC 5 W 5 W U73 24 V DC 5 W 5 W	G7J	230V - 50/60Hz	3.5 VA	240V - 50/60Hz	4 VA		
U710 110 V DC 3.2 W G710 110 V DC 3.2 W U77 24 V DC 3.1 W 48V - 50/60 Hz 3.8 VA U771 24 V DC 3.1 W 48V - 50/60 Hz 3.8 VA G77 24 V DC 3.1 W 48V - 50/60 Hz 3.8 VA G771 24 V DC 3.1 W 48V - 50/60 Hz 3.8 VA G771 24 V DC 3.1 W 48V - 50/60 Hz 3.8 VA U77 380V - 50/60 Hz 7.VA 3.8 VA U72 12 V DC 5 W 5 W G72 12 V DC 5 W 5 W U73 24 V DC 5 W 5 W	U79	48 V DC	3.1 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 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 U77 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 U77 380V - 50/60Hz 7 VA	G79	48 V DC	3.1 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 G771 24 V DC 3.1 W 48V - 50/60Hz 3.8 VA U7F 380V - 50/60Hz 7.VA 3.8 VA U72 12 V DC 5 W 5 W G72 12 V DC 5 W 5 W U73 24 V DC 5 W 5 W	U710	110 V DC	3.2 W				
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 G771 24 V DC 3.1 W 48V - 50/60Hz 3.8 VA U77 380V - 50/60Hz 7 VA V U72 12 V DC 5 W V G72 12 V DC 5 W V U73 24 V DC 5 W V	G710	110 V DC	3.2 W				
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 3.8 VA U77 12 V DC 5 W 3.8 VA G72 12 V DC 5 W 3.8 VA U73 24 V DC 5 W 3.8 VA	U77	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	U771	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	G77	24 V DC	3.1 W	48V - 50/60Hz	3.8 VA		
U72 12 V DC 5 W G72 12 V DC 5 W U73 24 V DC 5 W	G771	24 V DC	3.1 W	48V - 50/60Hz	3.8 VA		
G72 12 V DC 5 W U73 24 V DC 5 W	U7F	380V - 50/60Hz	7 VA				
U73 24 V DC 5 W	U72	12 V DC	5 W				
	G72	12 V DC	5 W				
G73 24 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.

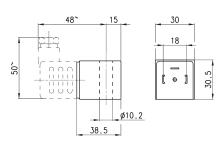
ø10.2

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Solenoids Mod. A8...



Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-A



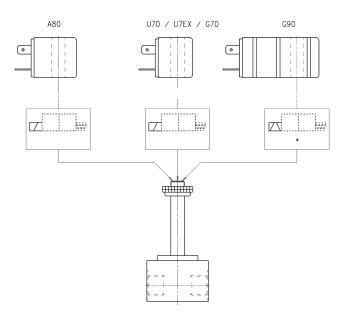
Mod.	Solenoid voltage	Power absorption
A8B	24V - 50/60Hz	5VA
A8D	110V-50/60Hz	5VA
A8E	220V - 50/60Hz	5VA
A83	24V DC	4W

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.

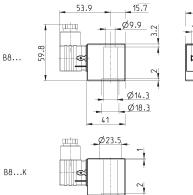


Solenoids Mod. B8...

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.



Ø14.3

Ø18.3



SOLENOIDS

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

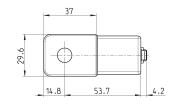
Solenoid Mod. H8.. for potentially explosive ambients

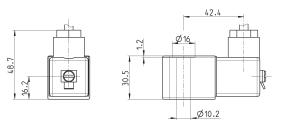


Certification in compliance with EN 60079-0 EN 60079-18 ATEX : II 2G Ex mb IIC T4 Gb II 2D Ex mb IIIC T135°C Db I M2 Ex mb I Mb INERIS 06ATEX0002X

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
H8CI	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.

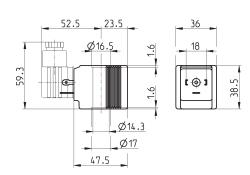
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com SOLENOIDS

Solenoids Mod. B9...

SOLENOID, PNEUMATIC AND MANIFOLD VALVES > SOLENOIDS

Electrical connection: bipolar plus earth Norm: DIN EN 175 301-803-A

Solenoid material: PA-MXD6



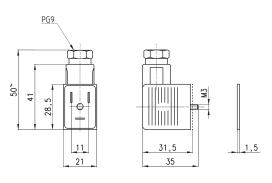
Mod.	Solenoid voltage	Power absorption
B9B	24 V - 50 Hz	29 VA
B9D	110 V - 50/60 Hz	29 VA
B9E	230 V - 50 Hz	29 VA
B93	24 V - DC	30 W

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.



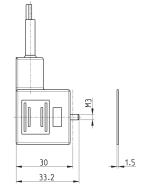
Mod.	description	colour	working voltage	cable gland	tightening torque
122-601	connector, diode + Led	transparent	24 V DC	PG9	0.5 Nm
122-701	connector, varistor + Led	transparent	24 V AC/DC	PG9	0.5 Nm
122-702	connector, varistor + Led	transparent	110 V AC/DC	PG9	0.5 Nm
122-703	connector, varistor + Led	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, G7 and B7



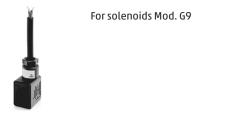
46 29	
	20.5

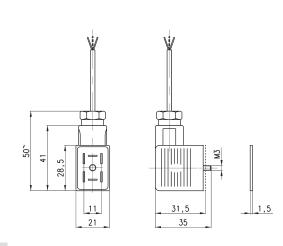


Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque
122-571-1	moulded cable, varistor + Led	black	24 V AC/DC	1000 mm	-	0.5 Nm
122-571-2	moulded cable, varistor + Led	black	24 V AC/DC	2000 mm	-	0.5 Nm
122-571-3	moulded cable, varistor + Led	black	24 V AC/DC	3000 mm	-	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



Connectors Mod. 122-89*C DIN EN 175 301-803-B





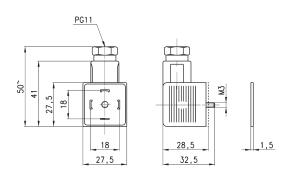
Mod.	description	colour	working voltage	cable length [L]	cable gland	tightening torque
122-892C	pre-wired connector, positive common	transparent	12/24V DC	2000 mm	PG9	0.5 Nm
122-893C	pre-wired connector, negative common	transparent	12/24V DC	2000 mm	PG9	0.5 Nm

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 gland	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	transparent	24 V AC/DC	PG9/PG11	0.5 Nm
124-703	connector, varistor + Led	black	230 V AC/DC	PG9/PG11	0.5 Nm

SOLENOIDS

Series 2 mechanically operated minivalves

MECHANICAL AND MANUAL VALVES > SERIES 2 MECHANICALLY OPERATED MINIVALVES

3/2-way Ports M5, cartridge ø 4



Series 2 mechanically operated miniature valves, 3/2-way normally closed, are available with M5 threaded ports or with an integrated super-rapid fitting for ø 4mm tubes.

The devices are actuated by a plunger, roller/lever or a unidirectional lever.

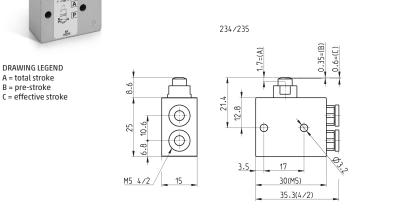
GENERAL DATA

Construction	poppet type
Valve group	3-way/2-position
Materials	aluminium body, brass plunger, NBR seals
Mounting	by means of screws in the through-holes of the valve body
Ports	M5, Ø4mm cartridge
Room temperature	0°C ÷ 60°C
Fluid temperature	0°C ÷ 50°C
Operating pressure	2 bar ÷ 10 bar
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

319

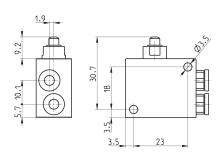
CODING EXAMPLE

2	3	4	-	94	5
2	SERIES				
3	FUNCTION 3 = 3/2-way NC 4 = 3/2-way NO				
4	PORTS 4 = cartridge ø 4mm 5 = M5				
94	ACTUATION 94 = plunger 95 = lever/roller 96 = unidirectional lever 98 = plunger, panel mounting				
5	RESETTING 5= spring return				



VM01 12

244/245





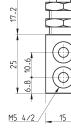
Mod.	Operating pressure (bar)	Flow Qn (Nl/min)	Actuating force at 6 bar (N)	SYMBOL
234-945	2÷10	60	6	VM01
235-945	2÷10	60	6	VM01
244-945	2÷10	60	6	VM03
245-945	2÷10	60	6	VM03

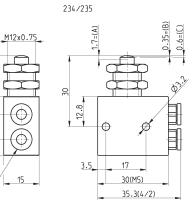
Minivalves with plunger

Minivalves with plunger, panel mounting

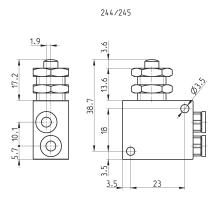


DRAWING LEGEND A = total stroke B = pre-stroke C = effective stroke









VM03 hw

Mod.	Operating pressure (bar)	Flow Qn (Nl/min)	Actuating force at 6 bar (N)	SYMBOL
234-985	2÷10	60	6	VM01
235-985	2÷10	60	6	VM01
244-985	2÷10	60	6	VM03
245-985	2÷10	60	6	VM03

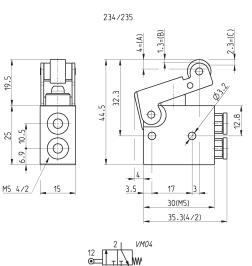


Minivalves with lever/roller

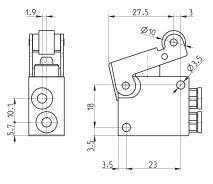
19.5

25

DRAWING LEGEND A = total stroke B = pre-stroke C = effective stroke



244/245





Mod.	Operating pressure (bar)	Flow Qn (Nl/min)	Actuating force at 6 bar (N)	SYMBOL
234-955	2÷10	60	6	VM04
235-955	2÷10	60	6	VM04
244-955	2÷10	60	6	VM06
245-955	2÷10	60	6	VM06

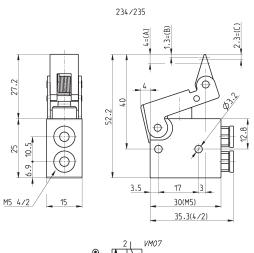
3.05.03 321



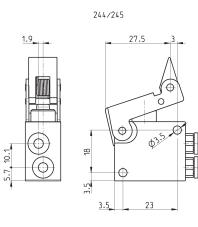
Minivalves, unidirectional lever



DRAWING LEGEND A = total stroke B = pre-stroke C = effective stroke









Mod.	Operating pressure (bar)	Flow Qn (Nl/min)	Actuating force at 6 bar (N)	SYMBOL
234-965	2 ÷ 10	60	6	VM07
235-965	2 ÷ 10	60	6	VM07
244-965	2 ÷ 10	60	6	VMA1
245-965	2 ÷ 10	60	6	VMA1

Series 1 and 3 mechanically operated valves

MECHANICAL AND MANUAL VALVES > SERIES 1 AND 3 MECHANICALLY OPERATED VALVES

Series 1: 3/2-way and 5/2-way, ports G1/8 and G1/4 Series 3: 3/2-way and 5/2-way, ports G1/8



These mechanically operated valves have been designed with three different types of actuation:

- plunger
- lever/roller

- unidirectional lever/roller In each case, return is triggered by a

mechanical spring.

3/2-way monostable valves Series 3 are normally closed in the rest position when pressure is supplied in 1 and are normally open when pressure is supplied on connection 3, the user port 2 remaining unchanged.

5/2-way valves Series 3 can be supplied via the ports 3 and 5 with two different pressures if a cylinder has to be operated using a delivery pressure which is different from the return pressure.

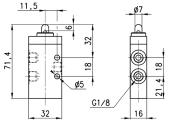
GENERAL DATA

Construction	spool-type (Series 3), poppet-type (Series 1)
Valve group	3/2, 5/2 way/pos.
Materials	aluminium body, brass poppet, stainless steel spool, NBR seals
Ports	G1/8, G1/4
Ambient temperature	0°C ÷ 60°C
Medium temperature	0°C ÷ 50°C
Operating pressure	see models
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

CODING EXAMPLE

Valve Mod. 338-945

3	3	8	-	94	5
3	SERIES: 1 3				
3	FUNCTION: 3 = 3/2 ways NC 4 = 3/2 ways NO (only Series 1) 5 = 5/2 ways				
8	PORTS: 8 = G1/8 4 = G1/4 (only Series 1)				
94	ACTUATION: 94 = plunger 95 = lever/roller 96 = unidirectional roller				
5	RESETTING: 5= spring return				

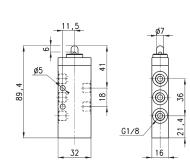




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
338-945	-0.9 ÷ 10	700	32

Valve Mod. 358-945



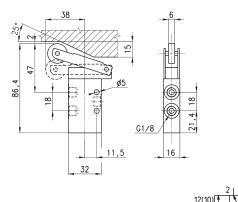


VM10 12 W

Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
358-945	-0.9 ÷ 10	700	35

Valve Mod. 338-955



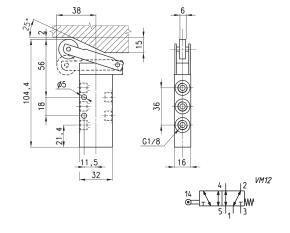


VM05

Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
338-955	-0.9 ÷ 10	700	15

Valve Mod. 358-955





Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
358-955	-0.9 ÷ 10	700	17

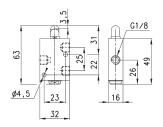
3.10.03



Valve N	1od. 338-965			
Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	
338-965	-0.9 ÷ 10	700	15	
Valve	Aod. 358-965			
Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	
358-965	-0.9 ÷ 10	700	16	

L Valve Mod. 138-945



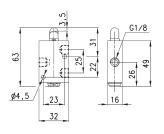




Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
138-945	0 ÷ 10	500	70

Valve Mod. 148-945

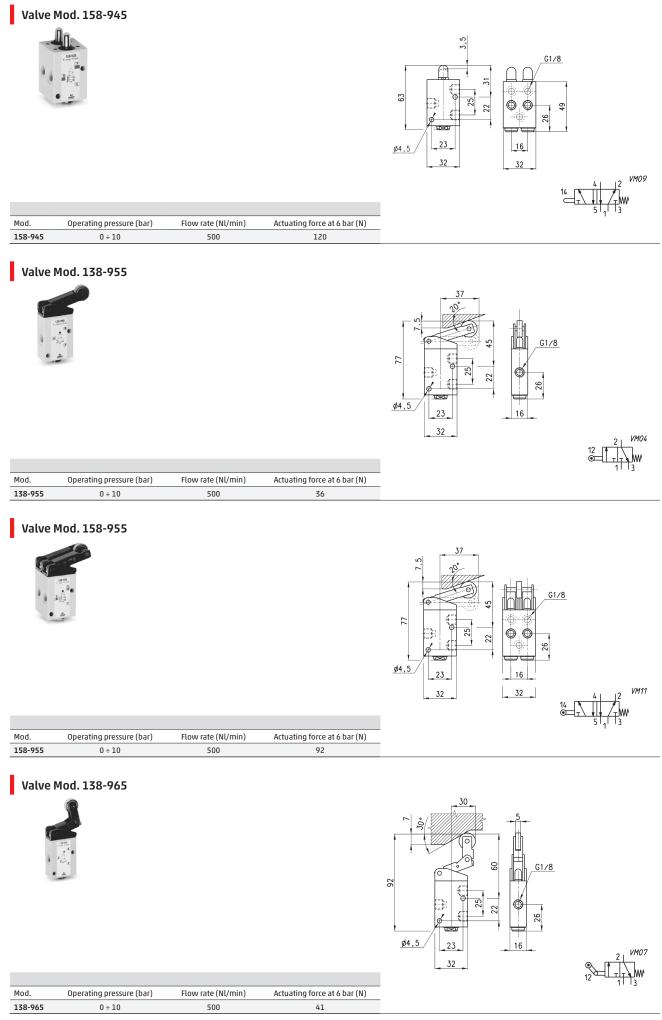






Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
148-945	0 ÷ 10	500	70

SERIES 1 AND 3 MECHANICALLY OPERATED VALVES

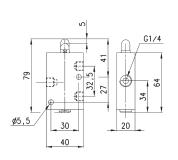


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SERIES 1 AND 3 MECHANICALLY OPERATED VALVES







VM01 <u>_</u>

				1113
Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	-
134-945	0÷10	1250	64	
Valve	Mod. 154-945			ϕ
				14 4 2 VM09
				$\Box_{\underline{\tau}} \underbrace{\downarrow}_{1} \underbrace{\downarrow}_{1} \underbrace{\downarrow}_{3}$
Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	- '
154-945	0÷10	1250	147	-
•				$g_{5,5}$ $g_{5,5}$ g_{40} $g_$
Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	-
134-955 Valve	^{0 ÷ 10} Mod. 154-955	1250	41	
				$\begin{array}{c} 44 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 \\ 6 $
Mod	Operating pressure (bar)	Flow rate (NI/min)	Actuating force at 6 bar (N)	

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Series 3 and 4 mechanically operated sensor valves

MECHANICAL AND MANUAL VALVES > SERIES 3 AND 4 MECHANICALLY OPERATED SENSOR VALVES

3/2 and 5/2-way Ports G1/8, G1/4



The particular mechanical device allows these end-stroke valves to operate with very low actuating forces. Series 3 has been designed with a mechanical lever device which works in negative pressure. To increase sensitivity it is possible to add to the lever a steel extension with ø 3 mm.

GENERAL DATA

Construction	spool-type (servocontrolled)
Valve group	3/2, 5/2 way/pos.
Materials	aluminium body, stainless steel spool, NBR seals
Ports	G1/8, G1/4
Ambient temperature	0°C ÷ 60°C
Medium temperature	0°C ÷ 50°C
Operating pressure	see models
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

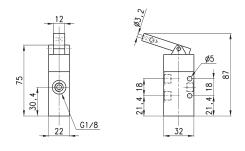
CODING EXAMPLE

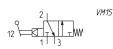
3	3	8	-	D15	-	9A5
3	SERIES: 3 4					
3	FUNCTION: 3 = 3/2-way NC 4 = 3/2-way NO 5 = 5/2-way					
8	PORTS: 8 = G1/8 4 = G1/4					
D15	ACTUATION: D15 = pressure dr 015 = pressure/sp 011 = pressure/p	oring				
9A5	DEVICES: 9A5 = lever senso 194 = plunger sei 294 = plunger sei	nsor, spring return		195 = lever/roller, spring return 295 = lever/roller, bistable		

Valve Mod. 338-D15-9A5



The function of the valve is indicated by the symbol when operating between 4 and 10 bar.



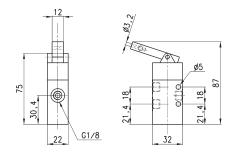


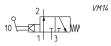
Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
338-D15-9A5	4÷10	700	2

Valve Mod. 348-D15-9A5



The function of the valve is indicated by the symbol when operating between 4 and 10 bar.

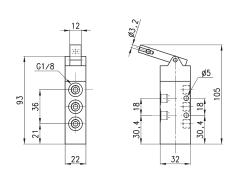


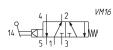


Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)
348-D15-9A5	4÷10	700	2

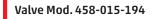
Valve Mod. 358-D15-9A5

The function of the valve is indicated by the symbol when operating between 4 and 10 bar.

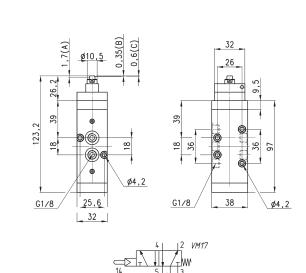




Mod. Operating pressure (bar) Flow rate (Nl/min)	Actuating force at 6 bar (N)
358-D15-9A5 4 ÷ 10 700	2



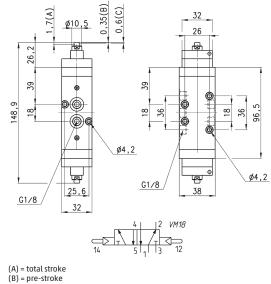




				(A) = total stroke
Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	(B) = pre-stroke
458-015-194	2.5 ÷ 8	650	6	(C) = useful stroke

Valve Mod. 458-011-294



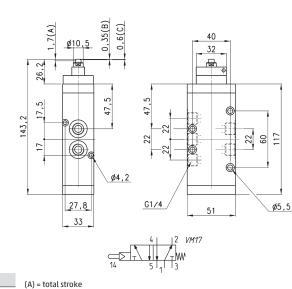


				(A) = total
Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	(B) = pre-s
458-011-294	2 ÷ 8	650	6	(C) = usefu

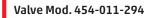


Valve Mod. 454-015-194

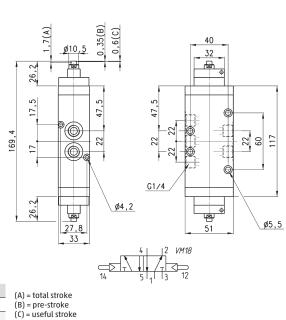




				(A) = total stroke
Mod. 0	perating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	(B) = pre-stroke
454-015-194	2.5 ÷ 8	1250	6	(C) = useful stroke



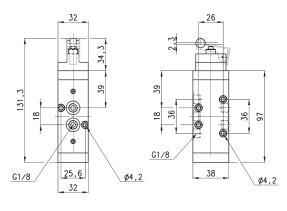




				(A) = total s
Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	(B) = pre-st
454-011-	294 2 ÷ 8	1250	6	(C) = useful







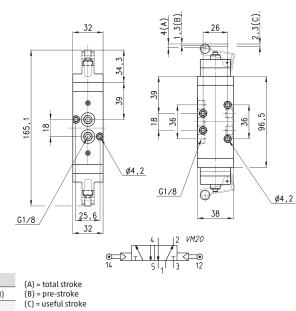


Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	(A) = total stroke (B) = pre-stroke
458-015-195	2.5 ÷ 8	650	4	(C) = useful stroke

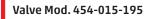
Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com.



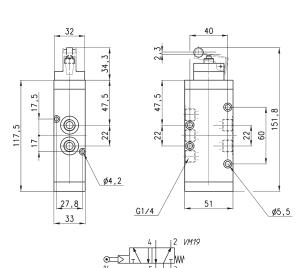




				(A) = tot
Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	(B) = pre
458-011-295	2 ÷ 8	650	4	(C) = USE







					14	5'1'
				(A) = total stroke		
Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	(B) = pre-stroke		
454-015-195	2.5 ÷ 8	1250	4	(C) = useful stroke		

Valve Mod. 454-011-295



2,3(C) 1,3(B) 32 (A) 4(m 34,3 17,5 ഹ 47,5 47, \bigcirc £ 185,6 \bigcirc 117 22 22 60 17 $(\bigcirc$ Ø Ó Ø4,2 ų. G1/4 5 \bigcirc 8 51 VM20 Ø5,5 **⊴**=0 12 3 stroke troke

				(A) = total stroke
Mod.	Operating pressure (bar)	Flow rate (Nl/min)	Actuating force at 6 bar (N)	(B) = pre-stroke
454-011-295	2 ÷ 8	1250	4	(C) = useful stroke

Foot operated pedal Electrical and pneumatic - Series 3 Pneumatic - Series 2

Series 3: G1/4, 5/2-way - NC / NO contacts Series 2: M5; 4/2 tube; 3/2-way NC



The pedals can be supplied in either a pneumatic or electrical foot operated version. The pneumatic type is available with a 5/2 valve and G1/4 front ports, which allow the fittings and silencers to be assembled conveniently on the front face. A 3/2 operation can be obtained by closing an outlet port.

The electrical type is available with a single-pole changeover contact microswitch and a front wire outlet (PG9). The pedal can be operated as bistable or monostable, by switching the selector placed under the small red protection flap, as shown in the drawing.

GENERAL DATA

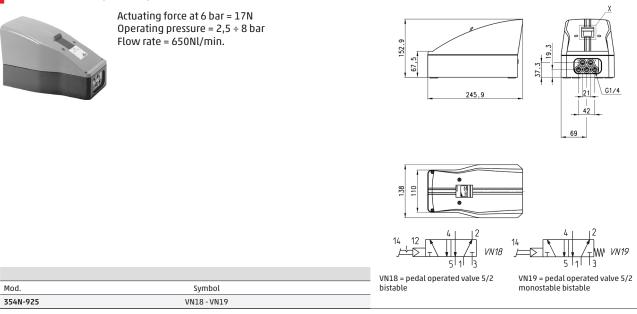
Construction	spool-type
Valve group	5/2, 3/2 NC way/pos.
Materials	- Series 3: alluminium body - stainless steel spool - NBR seals - plastic casing - Series 2: alluminium body - OT58 poppet - NBR seals.
Ports	- Series 3: G1/4 gas - Series 2: M5; tube 4/2.
Ambient temperature	0°C ÷ 50 °C (with dry air at - 10°C)
Medium temperature	0°C ÷ 50 °C
Construction	single-pole changeover contact microswitch
Cable entry	by means of wire PG9
Protection class	IP20
Fluid	Filtered air, without lubrication.

If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

SERIES 2 AND 3 PEDALS

Pneumatic foot operated pedal Series 3

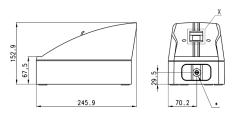
MECHANICAL AND MANUAL VALVES > SERIES 2 AND 3 PEDALS

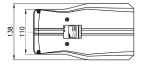


Electrical foot operated pedal Series 3



Mod.





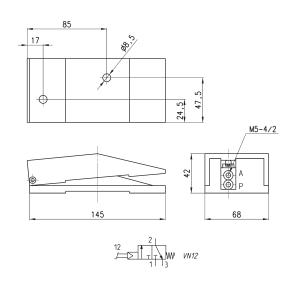


Mod. 3E2-925

Pneumatic foot operated pedal Series 2



Operating pressure = 2 ÷ 8 bar Flow rate = 60 Nl/min.







Series 2 manually operated console minivalves

3/2 NC, NO Ports M5, Cartridge Ø 4



This series of miniature valves has been especially designed to satisfy all the application requirements of the controls industry with particular attention paid to the operating characteristics required from these components:

short operational stroke
 small dimensions

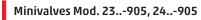
GENERAL DATA

Construction	poppet-type (closed centres)
Valve group	3/2 NC, NO 5/2 and 5/3 CO
Materials	aluminium body, brass plunger, NBR seals
Mounting	panel
Ports	M5 or cartridge dia. 4
Ambient temperature	0°C ÷ 60°C
Medium temperature	0°C ÷ 50°C
Operating pressure	see models

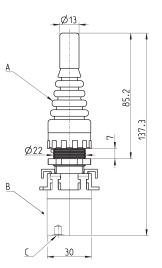


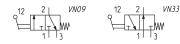
CODING EXAMPLE

2	3	4	-	97	5
2	SERIES				
3	FUNCTION: 3 = 3/2-way NC 4 = 3/2-way NO 8 = 5/3-way CO (function realize	ed with 2x 3/2-way NC valves)			
4	PORTS: 4 = cartridge ø 4 5 = M5				
97	MODE OF OPERATION: 87 = 3 position selector 89 = push button 97 = palm switch 90 = joystick 99 = 2 position selector 92 = pedal 904 = key				
5	RESETTING: 5 = spring return 0 = stable 2 = latching-twist to release 54= joystick				







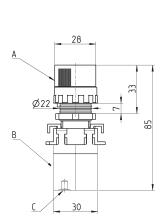


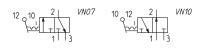
Mod.	Operating pressure (bar)	Flow (Nl/min)	A	В	C (Supply/port)	Symbols
234-905	2÷8 60		200-905 234-000		Ø4/2	VN09
235-905	235-905 2 ÷ 8		200-905	235-000	M5	VN09
244-905	i-905 2 ÷ 8		200-905	244-000	Ø4/2	VN33
245-905	2 ÷ 8	60	200-905	245-000	M5	VN33

SERIES 2 MANUALLY OPERATED CONSOLE MINIVALVES

Minivalves Mod. 23..-990, 24..-990





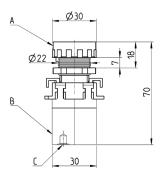


Mod.	Operating pressure (bar) Flow		А	В	C (Supply/port)	Symbols
234-990	2 ÷ 8	60	200-990 234-000		Ø4/2	VN07
235-990	2 ÷ 8	60	200-990	235-000	M5	VN07
244-990	2 ÷ 8	60	200-990	244-000	Ø4/2	VN10
245-990	2 ÷ 8	60	200-990	245-000	M5	VN10

Minivalves Mod. 23...-895, 24...-895



The packaging of the button includes 3 interchangeable disks in the colours red, black and green.

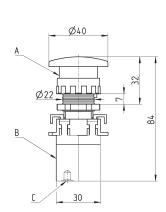


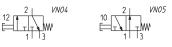


Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force	at 6 bar (N)	А	В	C (Supply/port)	Symbols
234-895	2 ÷ 8	60	7		200-895	234-000	Ø4/2	VN04
235-895	2 ÷ 8	60	7		200-895	235-000	M5	VN04
244-895	2 ÷ 8	60	7		200-895	244-000	Ø4/2	VN05
245-895	2 ÷ 8	60	7		200-895	245-000	M5	VN05

Minivalves Mod. 23...-975, 24...-975



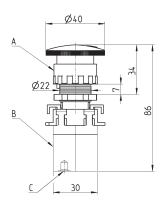




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force	at 6 bar (N)	A	В	C (Supply/port)	Symbols
234-975	2 ÷ 8	60	7		200-975	234-000	Ø4/2	VN04
235-975	2 ÷ 8	60	7		200-975	235-000	M5	VN04
244-975	2 ÷ 8	60	7		200-975	244-000	Ø4/2	VN05
245-975	2 ÷ 8	60	7		200-975	245-000	M5	VN05

Minivalves Mod. 23...-972, 24...-972





VN01 VN28 10 12 12 10

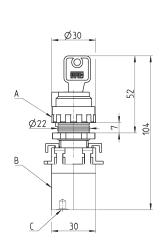
Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force	at 6 bar (N)	А	В	C (Supply/port)	Symbols
234-972	2 ÷ 8	60	7		200-972	234-000	Ø4/2	VN01
235-972	2 ÷ 8	60	7		200-972	235-000	M5	VN01
244-972	2 ÷ 8	60	7		200-972	244-000	Ø4/2	VN28
245-972	2 ÷ 8	60	7		200-972	245-000	M5	VN28

3.25.04 339



Minivalves Mod. 23...-904, 24...-904



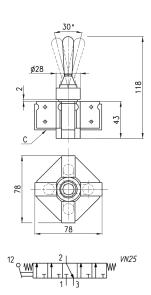




Mod.	Operating pressure (bar)	Flow (Nl/min)	Α	В	C (Supply/port)	Symbols
234-904	2 ÷ 8	60	200-904	234-000	Ø4/2	VN02
235-904	2 ÷ 8	60	200-904	235-000	M5	VN02
244-904	2 ÷ 8	60	200-904	244-000	Ø4/2	VN31
245-904	2 ÷ 8	60	200-904	245-000	M5	VN31

Joystick valves Mod. 234-9054, 235-9054





Minivalves Mod. 234-000. 235-000. 244-000. 245-000	

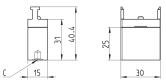
Minimum pressure (bar)

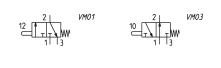
2

2



Mod.	Operating pressure (bar)	Flow (Nl/min)	Symbols
234-000	2 ÷ 8	60	VM01
235-000	2 ÷ 8	60	VM01
244-000	2 ÷ 8	60	VM03
245-000	2 ÷ 8	60	VM03



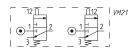


Minivalves Mod. 284-000, 285-000



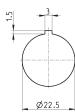
The codes shown in the table are composed by two 3/2-way valves NC which can be operated with the control device Mod. 200-870 only.

רשנ	I		
<u></u>	31 40.4	- 25	
C 30			30

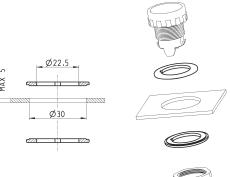


Mod.	Operating pressure (bar)	Flow (Nl/min)	Symbols
284-000	2 ÷ 8	60	VM21
285-000	2 ÷ 8	60	VM21

Drilling for mounting



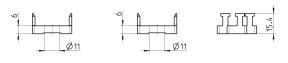
Adaptor Panel hole adaptor Ø30 Supplied with: 2x reduction rings

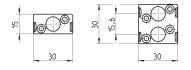


Mod. 200-2230

End cover







Series 1, 3, 4 and VMS manually operated valves

Series 1, 3 and 4: 3/2-, 5/2- and 5/3-way CC, CO; ports G1/8, G1/4 Series VMS: 3/2-way; ports M5, G1/8, G1/4, G3/8, G1/2 and G3/4



Series 3 manual valves (G1/8) and Series 4 (G1/4), 3/2-, 5/2- and 5/3-way, are available with several devices designed to satisfy different needs.

Series 1 is provided with two devices: pushbutton (3/2-way) and lever (3/2 and 5/2-way).

Series VMS valves are 3/2-way slide valves which are available with ports M5, G1/8, G1/4, G3/8, G1/2 and G3/4.

The 3/2-way valves Series 3 and 4 are normally closed when 1 is the inlet and they can also be normally open when 3 is the inlet.

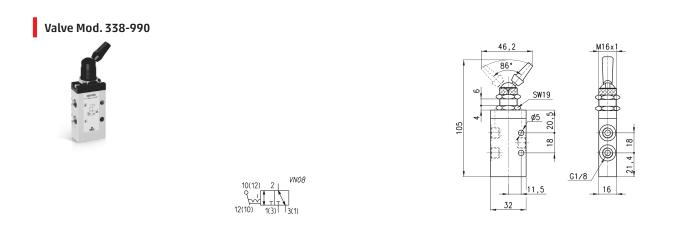
Series 3 and 4 5/2-way valves can be supplied via ports 3 and 5 with two different pressures, if a cylinder has to be operated using a delivery pressure which is different from the return pressure.

GENERAL DATA

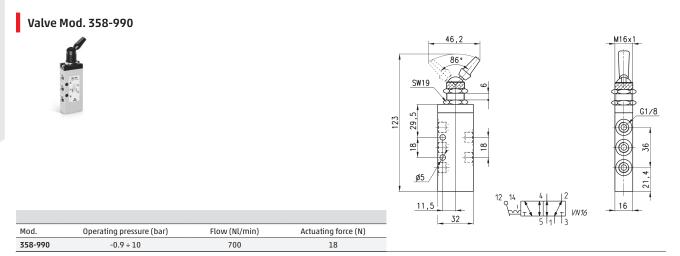
Construction	Series 3 and 4: spool-type Series 1: poppet-type Series VMS: slide
Function	Series 1, 3 and 4: 3/2 - 5/2 - 5/3 ways CC CO Series VMS: 3/2-way
Materials	aluminium body, stainless steel spool, brass poppet, NBR seals
Ports	Series 1, 3 and 4: G1/8, G1/4 Series VMS: M5, G1/8, G1/4, G3/8, G1/2, G3/4
Ambient temperature	0°C ÷ 60°C
Medium temperature	0°C ÷ 50°C
Operating pressure	see the single models
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

SERIES 1, 3, 4 CODING EXAMPLE

3	3	8	-	900
3	SERIES: 1 3 4			
5	FUNCTION: 3 = 3/2-way NC 5 = 5/2-way C 6 = 5/3-way CC 7 = 5/3-way CO			
8	PORTS: 8 = G1/8 4 = G1/4			
900	RESETTING: 895 = pushbutton, monostable, blac 896 = pushbutton, monostable, gree 897 = pushbutton, monostable, red 900 = lever, bistable 910 = knob, bistable 915 = knob, monostable 935 = digital monostable 975 = palm-switch, monostable, bla 976 = palm-switch, monostable, gre 977 = palm-switch, monostable, gred 990 = switch, bistable	n ck en		

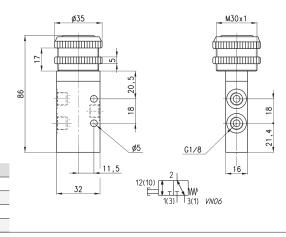


Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
338-990	-0.9 ÷ 10	700	18



Valves Mod. 338-89...





Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	Colors
338-895	-0.9 ÷ 10	700	35	Black
338-896	-0.9 ÷ 10	700	35	Green
338-897	-0.9 ÷ 10	700	35	Red

Flow (Nl/min)

700

700

700

Flow (Nl/min)

700

Actuating force (N)

35

35

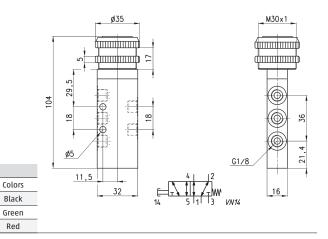
35

Actuating force (N)

35

Valves Mod. 358-89...





l. 338-97...

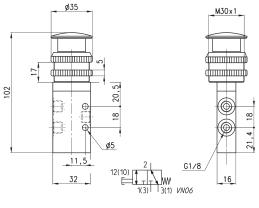
Operating pressure (bar)

-0.9 ÷ 10

-0.9 ÷ 10

-0.9 ÷ 10







Colors

Black

Mod.

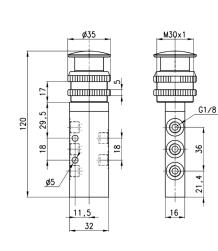
338-975

338-976

338-977

Valves Mod. 358-97...



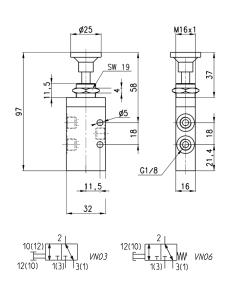




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	Colors
358-975	-0.9 ÷ 10	700	35	Black
358-976	-0.9 ÷ 10	700	35	Green
358-977	-0.9 ÷ 10	700	35	Red

Valves Mod. 338-91...





Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	Symbol
338-910	-0.9 ÷ 10	700	6	VN03
338-915	-0.9 ÷ 10	700	35	VN06



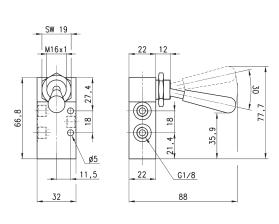


115	5W 19 5W 19 5W 19 5W 19 5W 19 5W 19	M10×1 21,4 37
	11.5	_16_
		4 2 4 7 5 1 3 2 VN14

Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	Symbol
-0.9 ÷ 10	700	6	VN13
-0.9 ÷ 10	700	35	VN14
	-0.9÷10	-0.9 ÷ 10 700	-0.9 ÷ 10 700 6

Valves Mod. 338-90...

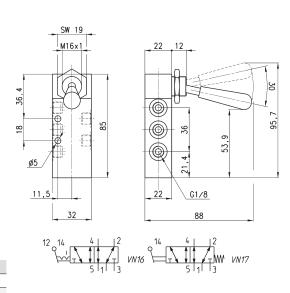




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	Symbol
338-900	-0.9 ÷ 10	700	5	VN08
338-905	-0.9 ÷ 10	700	22	VN11

Valves Mod. 358-90...

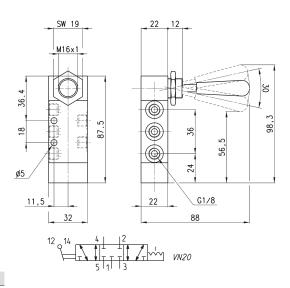




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	Symbol
358-900	-0.9 ÷ 10	700	5	VN16
358-905	-0.9 ÷ 10	700	22	VN17

Valve Mod. 368-900



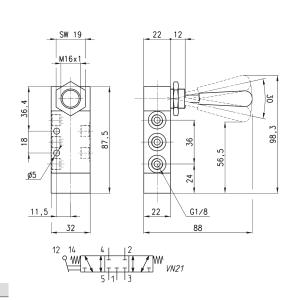


Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
368-900	-0.9 ÷ 10	500	5

SERIES 1, 3, 4 AND VMS MANUALLY OPERATED VALVES

Valve Mod. 368-905

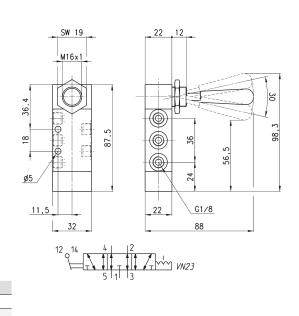




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
368-905	-0.9 ÷ 10	500	20



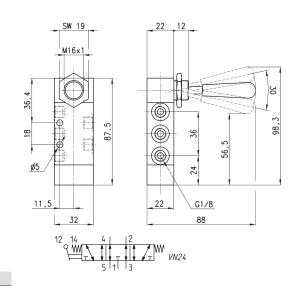




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
378-900	-0.9 ÷ 10	500	5

Valve Mod. 378-905

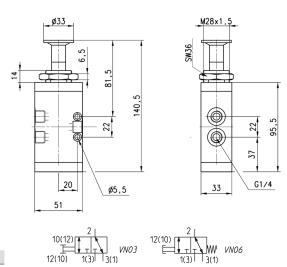




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
378-905	-0.9 ÷ 10	500	20

Valves Mod. 434-91...

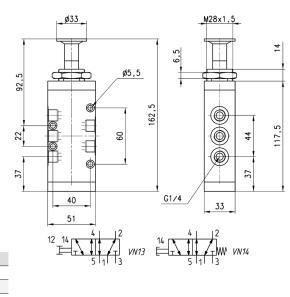




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	Symbol
434-910	-0.9 ÷ 10	1250	10	VN03
434-915	-0.9 ÷ 10	1250	37	VN06

Valves Mod. 454-91...

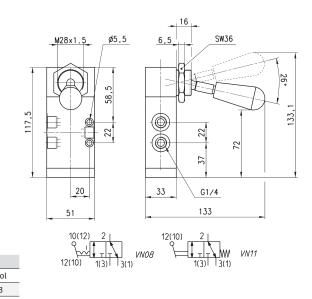




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	Symbol
454-910	-0.9 ÷ 10	1250	10	VN13
454-915	-0.9 ÷ 10	1250	37	VN14

Valves Mod. 434-90...

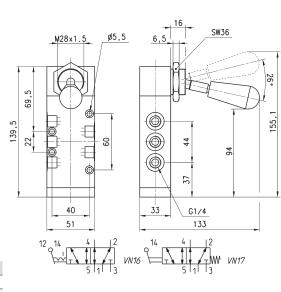




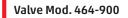
Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	Symbo
434-900	-0.9 ÷ 10	1250	5	VN08
434-905	-0.9 ÷ 10	1250	37	VN11

Valves Mod. 454-90...

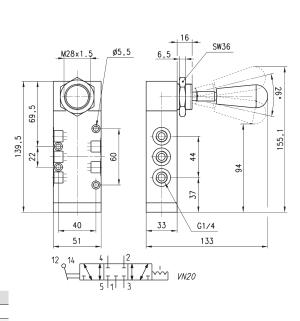




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)	Symbol
454-900	-0.9 ÷ 10	1250	5	VN16
454-905	-0.9 ÷ 10	1250	37	VN17



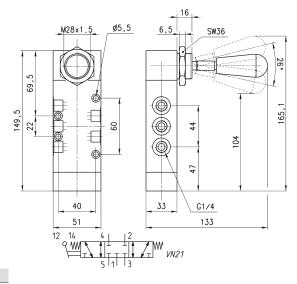




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
464-900	-0.9 ÷ 10	1250	5

Valve Mod. 464-905

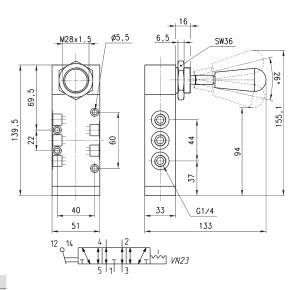




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
464-905	-0.9 ÷ 10	1250	10

Valve Mod. 474-900

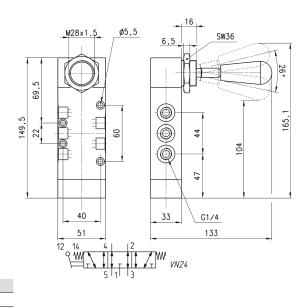




Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
474-900	-0.9 ÷ 10	1250	5

Valve Mod. 474-905



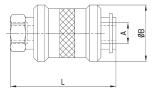


Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
474-905	-0.9 ÷ 10	1250	10

Series VMS slide valves

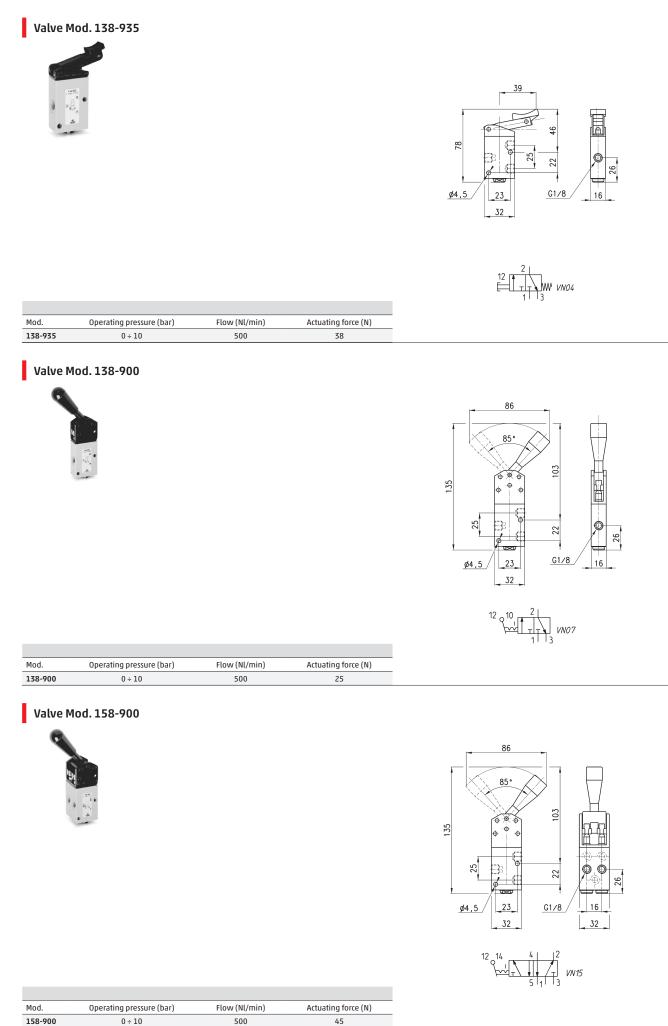


Mod.	А	ØB	L	Flow at 6 bar ΔP 1 (Nl/min) 1-2	Flow at 6 bar ΔP 1 (Nl/min) 2-3	Operating press. (bar)	Operating temp. (°C)
VMS-105-M5	M5	15	33,5	140	145	0÷15	-10 ÷ 80
VMS-118-1/8	G1/8	25	48	600	740	0÷15	-10 ÷ 80
VMS-114-1/4	G1/4	30	58	1200	1780	0÷15	-10 ÷ 80
VMS-138-3/8	G3/8	35	70	2100	1830	0÷15	-10 ÷ 80
VMS-112-1/2	G1/2	40	80	3350	4030	0÷15	-10 ÷ 80
VMS-134-3/4	G3/4	49,5	83	5350	5000	0 ÷ 15	-10 ÷ 80





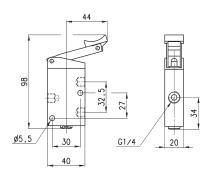
SERIES 1, 3, 4 AND VMS MANUALLY OPERATED VALVES



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

Valve Mod. 134-935



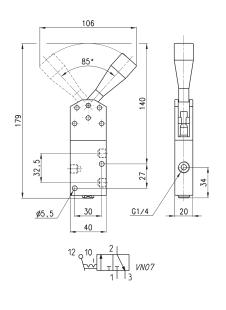




Mod. Operating pressure (bar) Flow (Nl/min) Actu	
······ ·······························	ating force (N)
134-935 0 ÷ 10 1250	40

Valve Mod. 134-900

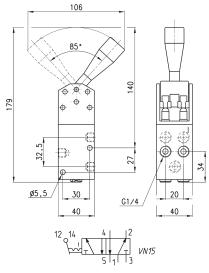




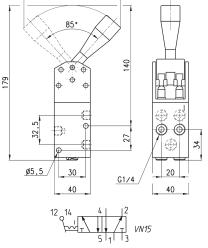
Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
134-900	0÷10	1250	30

Valve Mod. 154-900





Mod.	Operating pressure (bar)	Flow (Nl/min)	Actuating force (N)
154-900	0 ÷ 10	1250	55





Series 2 mini-handle valves

Handle with incorporated micro valve 3/2 NC and NO Handle with incorporated micro switch



Manual handle with integrated pneumatic micro valve 3/2 or with an electrical micro switch with single pole changeover contacts. Rugged construction particularly suited to be incorporated in to other equipment.

GENERAL DATA

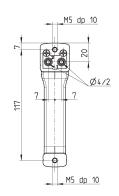
Construction	poppet-type (closed centres)
Valve group	way/pos. 3/2 way NC and NO
Nominal diameter	2,5 mm
Fixing	N°2 holes M5
Ports	push in cartdrige Ø4
Installation	in any position
Operating temperature	0 ÷ +70°C (-20°C with dry air)
Operating pressure	2 ÷ 8 bar
Nominal flow rate	Qn 60 Nl/min. (6 bar ∆ p1)
Fluid	Filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.
Actuating force	at 6 bar 13N
Construction	switch device
Electrical connections	3 wires Ø external 2,2 mm internal section 0,5 length 30 cm NC = black wire NO = blue wire
Fixing	N° 2 holes M5
Mounting	in any position
Protection class	IP40
Activation stroke	2 mm
Actuating force	5 N

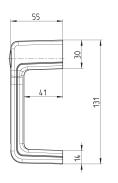
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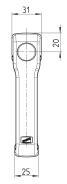
Handle 3/2 NC and NO



2 VN04	2 VN05
1 3	1 3

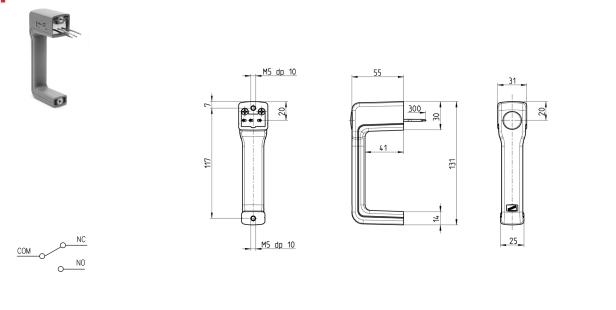






Mod.	Symbol	
234-885	VN04	
244-885	VN05	

Handle



Electrical characteristics					
Mod.	Voltage	Non-inductive load Resist. NC / NO	Non-inductive load Lamp NC / NO	Inductive load NC / NO	Inductive load Motor NC/NO
234-88E	125VAC	5A	1,5 A / 0,7 A	3 A	2,5 A / 1,3 A
	250 VAC	3A	1 A / 0,5 A	2 A	1,5 A / 0,8 A
	8 VDC	5A	2 A	5 A / 4 A	3 A
	14 VDC	5A	2 A	4 A	3 A
	30 VDC	4A	2 A	3 A	3 A
	125 VDC	0,4A	0,05 A	0,4 A	0,05 A
	250 VDC	0,2A	0,03 A	0,2 A	0,03 A
234-88E	The above-mentioned values refer to steady-state-current	The inductive load refers to power factor = 0,4 in AC. and a time constant of 7 msec max. in DC.	Lamp load has an inrush current of 10 times the steady-state current.	Motor load has an inrush current of 6 times the steady-state current.	If the switch is used in a DC circuit and is subjected to a surge connect a surge suppressor across the switch.

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Series 2L basic logic valves

Cartridge Ø 4 mm. or - and - yes - not - memory



Series 2L basic logic functions are available in 5 different models and can be mounted separately by means of 2 passing holes in the body.

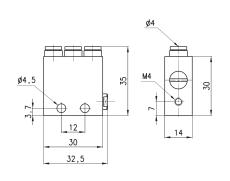
Bracket Mod. 2LQ-8A allows to have the inlets and outlets on the front side, facilitating the mounting of the connection tubes. All models are constructed with the pressure window incorporated, which allows an easy detection of any problems. Moreover the fittings are incorporated into the valve body and are super-rapid $\emptyset 4$.

The "NOT" element has an actuating pressure of 0,3 bar.

GENERAL DATA	
Construction	poppet (spool memory)
Materials	aluminium body; NBR seals; OT58 brass
Valve group	automatic valves (logic units)
Ports	cartridge ø 4
Operating temperature	0°C ÷ 60°C (-20°C with dry air)
Operating pressure	2 bar ÷ 10 bar
Nominal flowrate	100 Nl/min. (6 bar ΔP = 1)
Fluid	filtered air, without lubricant. If lubricated air is used, it is recommended to use oil ISO VG32. Once applied the lubrication should never be interrupted.

Basic logic valves AND / OR



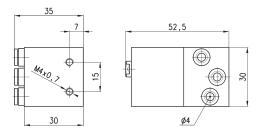


Automation

Mod.FunctionPneumatic symbolLogic symbol2LD-SB4-BANDAND1AND22LR-SB4-BOROR01OR02					2 ↓ AND2 & 1 ↓ ↓ 1	2 ↓ 0R02 ≥ 1 ↓ ↓ 1
	Mod.	Function	Pneumatic symbol	Logic symbol		
ZLR-SB4-B OR ORO1 ORO2	2LD-SB4-B	AND	AND1	AND2		
	2LR-SB4-B	OR	OR01	OR02		

Basic logic valves YES / NOT

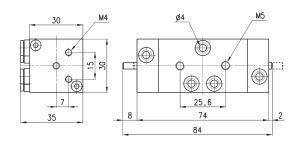


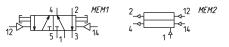


				² ↓ <i>YES2</i> 1 ↓ ↓ X	2 ↓ <i>NOT2</i> & 1 ↓ ↓ X
Mod.	Function	Pneumatic symbol	Logic symbol		
2LS-SB4-B	YES	YES1	YES2		
2LT-SB4-B	NOT	NOT1	NOT2		

Basic logic valves "Memory"



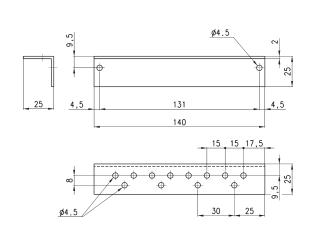




Mod.	Function	Pneumatic symbol	Logic symbol
2LM-SB4-B	Memory	MEM1	MEM2

Right-angled bracket





Mod. 2LQ-8A

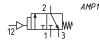
Pneumatically operated 3/2 NC amplifier valve - G1/8 ports

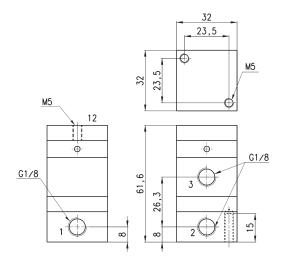


The amplifier valve Mod. 2LA-AM is able to change low pressure signals into signals with pressure from 2 to 8 bar. The poppet type construction shows a minimum permanent air consumption at rest.

Mounting: with M5 screws Installation: in any position Fluid: filtered air, without lubricant

Materials: - AL body - NBR seals





Mod.	Working pressure (bar)	Min/max operating pressure (bar)	Permanent air consumption at rest (Nl/min)	Nominal flow (Nl/min ∆P 1)
2LA-AM	2 ÷ 8	0.03 / 0.6	3.3	120

2LB-SR M22×1

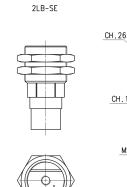
Sender and receiver sensor Series 2L - M5 ports

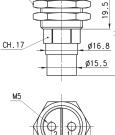
LOGIC VALVES > SERIES 2L BASIC LOGIC VALVES

Materials: aluminium - brass Construction: nozzle without moving parts Threading mounting: M22 x 1 Mounting diameter: 22.5 mm Mounting bracket: B20-25, E20-25 Max air consumption: P 2 bar 45 NL/min Fluid: filtered air, without lubricant

Conditions of functioning: the receiver pressure (2LB-SR) has to be lower or equal compared with the sender pressure (2LB-SE)

The receiver nozzle (2LB-SR) is supplied to ensure the self-cleaning. The air jet of the sender (2LB-SE) avoids the free outflow of the air jet from the receiver. A back pressure is thus produced that generates at outlet A a pilot pressure which is sent to the amplifier drive. When an object interrupts the air jet between the two sensors, this signal becomes zero.





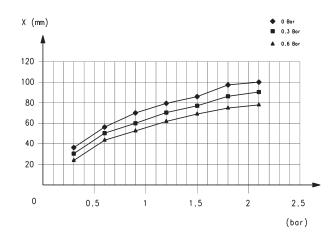


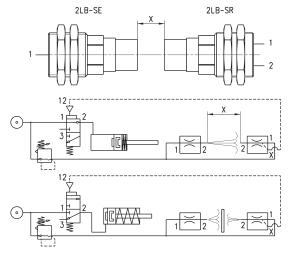


 $\frac{2}{1}$

Mod.	Туре	Min. pressure	Max pressure	Temperature	Symbol
2LB-SE	Sender	0.3 bar	2 bar	-20°C ÷ +60°C	2LB1
2LB-SR	Receiver	0.3 bar	0.6 bar	-20°C ÷ +60°C	2LB2

SENDER AND RECEIVER SENSORS SERIES 2L





X = distance between nozzles (30 mm ÷ 80 mm)

DISTANCE DIAGRAM between SENDER (2LB-SE) and RECEIVER (2LB-SR) according to the supply pressures



CIRCUIT SELECTOR MOD. SCS

Circuit selector Mod. SCS

Ports: G1/8

» Channelling of two signals coming alternately from two different points towards the same point



The circuit selector Mod. SCS - 668-06 enables two signals coming alternately from two different points to be channelled towards the same point.

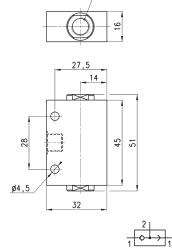
GENERAL DATA

Valve group	automatic valves
Construction	poppet-type
Materials	AL body brass bush Delrin poppet NBR seals
Mounting	in any position
Ports	G1/8
Operating temperature	0°C ÷ 80°C (with dry air -20°C)
Medium	filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

Circuit selector Mod. SCS

The selector is mounted by through holes in the body.





G 1/8

ORO1

Mod.	Flow (Nl/min)	Min. operating pressure (bar)	Max working pressure (bar)
SCS-668-06	800	0.2	10

New models

Series VNR Unidirectional valves

Ports of Thread version: M5, G1/8, G1/4, G3/8, G1/2, G3/4, G1 Dimensions of Tube/Tube version: Ø4; Ø6; Ø8; Ø10; Ø12



- » In-line mounting thanks to integrated fittings
- » Low operating pressures
- » Robust design, brass body
- » Version 6580 and 6510 in FKM with a wide range of chemical compatibility and operating temperatures extended.
- » Version for use with oxygen available

Series VNR unidirectional valves are available in the Thread or Integrated Fitting version. Thanks to their construction they operate at low pressures.

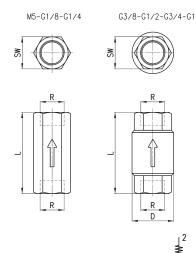
Valve group	automatic valves
Construction	poppet-type
Materials	brass body stainless steel spring NBR/FKM seals (for version 6580)
Mounting	in any position
Dimensions thread version	M5, G1/8, G1/4, G3/8, G1/2, G3/4, G1
Dimensions tube version	Ø4; Ø6; Ø8
Operating temperature	0 °C ÷ 80 °C; NBR (with dry air -20 / +80 °C) FKM (with dry air - 20 / +200 °C)
Medium	filtered air without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.



SERIES VNR UNIDIRECTIONAL VALVES

Series VNR unidirectional valves





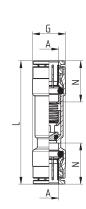
R D		
- MAO	2	VNR1

New

DIMENSIONS							
Mod.	R	L	SW	D	Flow 6 bar ΔP1(Nl/min)	Min. operating pressure (bar)	Max working pressure (bar)
VNR-205-M5	M5	25	8	9	50	1	10
VNR-210-1/8	G1/8	34	13	15	600	0.2	10
VNR-843-07	G1/4	43	17	20	1400	0.2	10
VNR-238-3/8	G3/8	55	23	34.5	3000	0.02	25
VNR-212-1/2	G1/2	58.5	27	34.5	5800	0.02	25
VNR-234-3/4	G3/4	65	33	41.5	8000	0.06	25
VNR-201-01	Gl	74.5	40	48	13000	0.06	25

Series VNR unidirectional valves





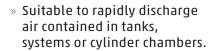


Mod.	A	G	L	N	Flow 6 bar ΔΡ1(Nl/min)	Min. operating pressure (bar)	Max operating pressure (bar)	Weight (g)
6580 4-VNR	4	9	40	14	85	0,5	10	13
6580 6-VNR	6	12	48	16	450	0,2	10	20
6580 8-VNR	8	14	52.5	17.5	900	0,2	10	30



Series VSO, VSC quick exhaust valves

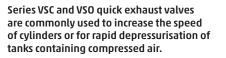
Series VSO ports: M5, G1/8, cartridge Ø4 Series VSC ports: G1/8, G1/4, G1/2



» Threaded versions and with fitting

V80 4-1/8 w s





Mod. VSO 425-M5, VSO 426-O4: they are particularly suitable to be mounted on solenoid valves and valves incorporating a Ø 4 cartridge.

Mod. VSO 4-1/8: it is particularly suitable for direct mounting on the actuator connection. The air coming in from the jointed part (1) is used by the threaded side (2), whilst the exhaust (3) passes through the holes sideways to the valve body.

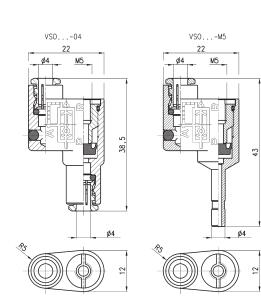
Mod. VSC: they are particularly suitable to be mounted directly on the cylinder mouth through the use of a nipple. It is recommended to mount a silencer on the outlet.

GENERAL DATA

Valve group	automatic valves
Construction	poppet-type
Materials	Series VSO: brass body - NBR seals Series VSC: brass body - Desmopan seal
Mounting	in any position
Ports	Series VSO: M5, G1/8, cartridge ø4 Serie VSC: G1/8, G1/4, G1/2
Operating temperature	0°C ÷ 80°C (with dry air -20°C)
Fluid	filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

Quick exhaust valves Mod. VSO 425-M5, VSO 426-04



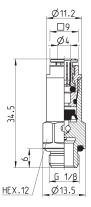


	2	וו	VSC 1
1	- ¢ -	\square_3	

Mod.	Ports	Flow rate at 6 bar 1 > 2 (Nl/min)	Flow rate at 6 bar 2 > 3 (Nl/min)	Min. operating pressure (bar)	Max working pressure (bar)
VSO 425-M5	M5	50 (ΔP = 1 bar)	100 (ΔP = 1 bar)	1	16
VSO 426-04	cartridge ø4	50 (ΔP = 1 bar)	100 (ΔP = 1 bar)	1	16

Quick exhaust valve Mod. VSO 4-1/8





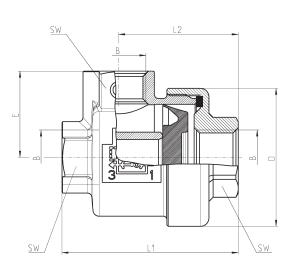


Mod.	Ports	Flow rate at 6 bar 1 > 2 (Nl/min)	Flow rate at 6 bar 2 > 3 (Nl/min)	Min. operating pressure (bar)	Max working pressure (bar)
VSO 4-1/8	G1/8	50 (ΔP = 1 bar)	330 (free flow)	0.5	16



Series VSC quick exhaust valves







Mod.	В	D	E	L1	L2	SW	Ports	Medium inlet flow rate 1 > 2 [flow at 6 bar, ΔP 1 bar] (Nl/min)	Medium exhaust flow rate 2 > 3 [flow at 6 bar, ΔP 1 bar] (Nl/min)	Min. operating pressure (bar)	Max working pressure (bar)
VSC 588-1/8	1/8	28	17.5	36.5	25	14	G1/8	630	940	0.5	12
VSC 544-1/4	1/4	33	20.5	42	28.5	17	G1/4	860	1600	0.3	12
VSC 522-1/2	1/2	43	27	57.5	39.5	24	G1/2	4700	6250	0.2	12



Adjustable overpressure exhaust valve Mod. VMR 1/8-B10



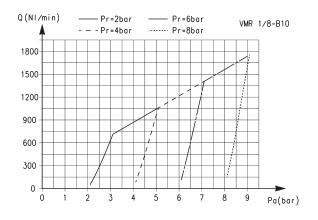
» Able to maintain pressure constant at a set value which allows the overpressure to exhaust

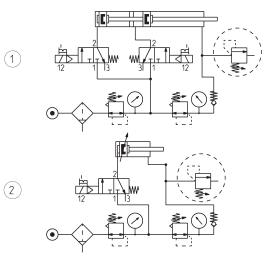
The adjustable valve Mod. VMR 1/8-B10 allows to discharge the overpressure that can be generated in a volume.

GENERAL DATA

Valve group	automatic valves
Construction	diaphragm type
Materials	brass body zinc-plated steel spring NBR seals
Mounting	in any position
Ports	G1/8
Operating temperature	-5°C ÷ 50°C (with the dew point of the fluid lower than 2°C at the min. working temperature)
Medium	filtered air, without lubrication. If lubricated air is used, it is recommended to use ISO VG32 oil. Once applied the lubrication should never be interrupted.

FLOW DIAGRAM and FUNCTIONING SCHEMES





FUNCTIONING SCHEME 1: overpressure exhaust in a cylinder chamber or in a tank when the set value has been exceeded.

FUNCTIONING SCHEME 2: VMR valve with maximum adjustable pressure allows pressure in a cylinder chamber or in tank to exhaust in the atmosphere every time the set regulation value is exceeded.

Valve with maximum adjustable pressure Mod. VMR 1/8-B10

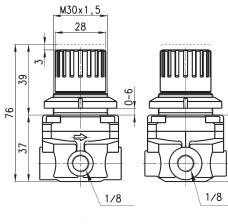


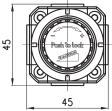
FLOW DIAGRAM

Q = Flow

Pa = Inlet pressure

Pr = Regulated pressure





Mod.	Working pressure (bar)	
VMR 1/8-B10	1÷8	

5

C

Series VBO - VBU blocking valves

Unidirectional valves (VBU) and bidirectional valves (VBO) Ports G1/8, G1/4, G3/8 and G1/2

Automation



These unidirectional and bidirectional blocking valves have been realised in order to enable mounting directly on cylinders.

They can be used as high flow valves for blows, cleaning of pieces, filling of volumes.

For these applications it is suggested to connect the supply to port 2 (having the mail thread).



These valves can be mounted directly also on distribution and fluid control blocks.

- » Series VBU: unidirectional valves with operating pressure from 0.3 to 10 bar
- » Series VBO: bidirectional valves with operating pressure from 0 to 10 bar
- » Direct mounting on cylinders or on distribution and fluid control blocks

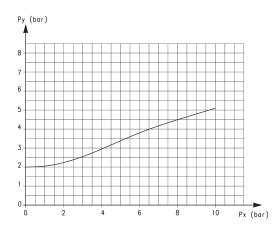
GENERAL DATA	
Construction	poppet type
Valve group	unidirectional and bidirectional blocking valve
Materials	Brass - NBR seals - stainless steel springs - PTFE
Mounting	by male thread
Ports	G1/8 - G1/4 - G3/8 - G1/2
Position	in any position
Operating temperature	0°C ÷ 80°C (with dry air -20°C)
Operating pressure	VBU: 0,3 ÷ 10 bar, VBO: 0 ÷ 10 bar
Nominal pressure	6 bar
Nominal flow	see graph
Nominal diam.	G1/8 ø 5,5 mm - G1/4 ø 8 mm - G3/8 ø 11 mm - G1/2 ø 15 mm
Fluid	filtered air, without lubrication. If lubricated air is used, it is recommended to use oil ISO VG32. Once applied, the lubrication should never be interrupted.

SERIES VBO AND VBU BLOCKING VALVES

CODING EXAMPLE

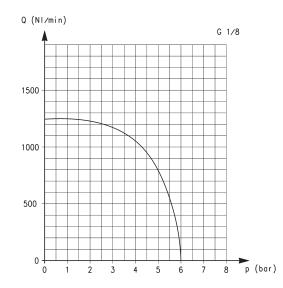
VB	U	1/8
VB	SERIES: VB	
U	VERSIONS: U = unidirectional O = bidirectional	
1/8	PORTS: G1/8 G1/4 G3/8 G1/2	

DIAGRAM OF THE PILOT PRESSURE



This diagram shows the relation between working pressure (Px) and pilot pressure required in order to operate the valve (Py). The opening pressure of the unidirectional valve is 0,3 bar.

FLOW DIAGRAMS OF UNIDIRECTIONAL AND BIDIRECTIONAL VALVES



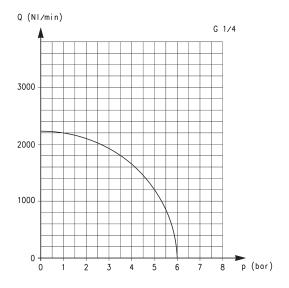


Diagram for valves VBU and VBO with G1/8 ports.

Q is the flow measured in Nl/min and determined with an inlet pressure of 6 bar.

Diagram for valves VBU and VBO with G1/4 ports.

Q is the flow measured in Nl/min and determined with an inlet pressure of 6 bar.

FLOW DIAGRAMS OF UNIDIRECTIONAL AND BIDIRECTIONAL VALVES

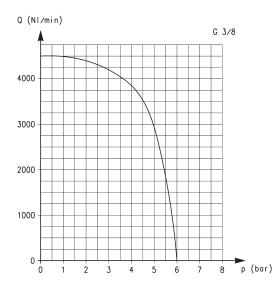


Diagram for valves VBU and VBO with G3/8 ports.

Q is the flow measured in Nl/min and determined with an inlet pressure of 6 bar.

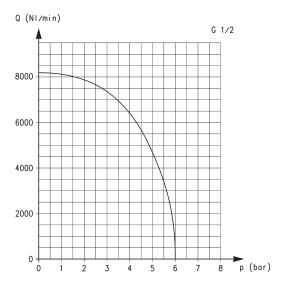
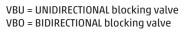


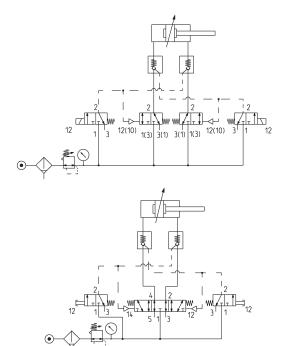
Diagram for valves VBU and VBO with G1/2 ports.

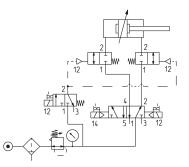
Q is the flow measured in Nl/min and determined with an inlet pressure of 6 bar.

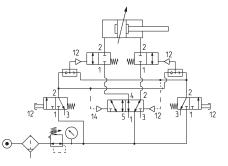
utomatio

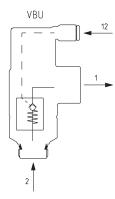


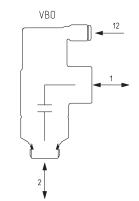










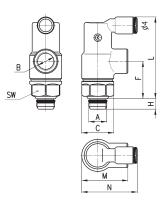


Auto

SERIES VBO AND VBU BLOCKING VALVES

Unidirectional blocking valve



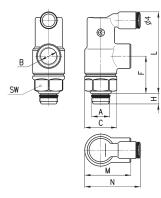


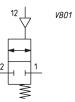


DIMENSIO	NS								
Mod.	Α	В	С	F	Н	L	М	Ν	SW
VBU 1/8	1/8	1/8	16,9	20	5,5	43	24,5	30	15
VBU 1/4	1/4	1/4	20,5	25	7	50	32,2	33,5	19
VBU 3/8	3/8	3/8	26,8	33	8	67	40	39,5	24
VBU 1/2	1/2	1/2	30	45,5	9	85,7	52	48	27

C	
190 1/8 State	
4	

Bidirectional blocking valve





DIMENSION	٧S								
Mod.	А	В	С	F	Н	L	М	Ν	SW
VBO 1/8	1/8	1/8	16,9	20	5,5	43	24,5	30	15
VBO 1/4	1/4	1/4	20,5	25	7	50	32,2	33,5	19
VBO 3/8	3/8	3/8	26,8	33	8	67	40	39,5	24
VBO 1/2	1/2	1/2	30	45,5	9	85,7	52	48	27



Series SCU, MCU, SVU, MVU, SCO, MCO flow control valves

Unidirectional and bidirectional banjo flow control regulators Ports: M5, G1/8, G1/4, G3/8, G1/2



These unidirectional and bidirectional flow controllers have been designed as small as possible so as to be mounted directly on valves or cylinders.

The great variety of adjustable fittings makes it possible to complete the regulator with the most suitable system in relation to the available tube. Only the G1/2 model is supplied complete with banjo flow controllers. For the other models the banjo flow controller is to be requested separately.

GENERAL DATA

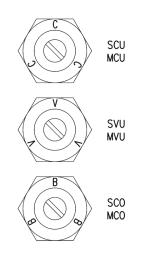
Construction	needle type
Valve group	unidirectional and bidirectional controller
Materials	body and regulation screw: M5 = stainless steel; 1/8 - 1/4 - 3/8 - 1/2 = OT; seals = NBR
Mounting	by male thread
Ports	M5 - G1/8 - G1/4 - G3/8 - G1/2
Installation	in any position
Operating temperature	0°C ÷ 80°C (with dry air - 20°C)
Operating pressure	1 ÷ 10 bar
Nominal pressure	6 bar
Nominal flow	see graph
Nominal diameter	M5 = 1,5 mm - G1/8 = 2 mm - G1/4 = 4 mm - G3/8 = 7 mm - G1/2 = 12 mm
Fluid	filtered air. If lubricated air is used, it is recommended to use ISOVG 32 oil. Once applied the lubrication should never be interrupted.

CODING EXAMPLE

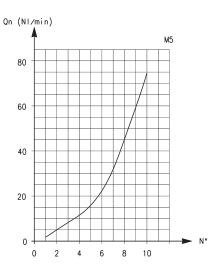
Μ	CU	7	02	-	M5
Μ	ACTUATION: M = Manual S = Screwdriver				
CU	ASSEMBLY: CU = on cylinders unidirectional VU = on valves unidirectional CO = bidirectional				
7	VERSIONS: 6 = needle (screwdriver operated) 7 = needle (manual operated)				
02	NOMINAL DIAMETER: 02 = ø 1,5 max 04 = ø 2 max 06 = ø 4 max 08 = ø 7 max 10 = ø 12 max				
M5	PORTS: MS = M5 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8 1/2 = G1/2				

To ensure the right choice of unidirectional flow controller, proceed as follows: calculate the quantity of air in NI/min (see cylinder Table); determine the stroke time of the cylinder; refer to graph to see which controller is the right type.

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROLLERS



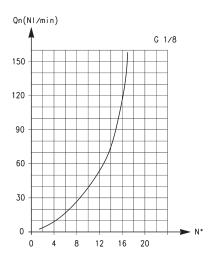
IDENTIFICATION OF DIFFERENT TYPES: SCU - MCU = assembly directly on the cylinders SVU - MVU = assembly directly on the valves SCO - MCO = assembly directly on the cylinders or valves

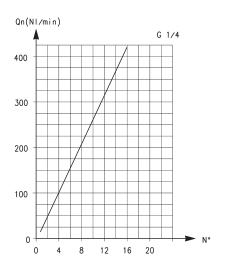


Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 70 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 33 Qn = supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet N° = number of screw turns.

SERIES SCU, MCU, SVU, MVU, SCO, MCO VALVES

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS





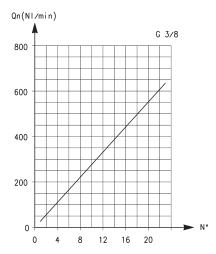
Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 200 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 70

Qn = supply pressure of 6 bar and with ΔP = 1 bar at the outlet N° = number of screw turns.

Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 530 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 160

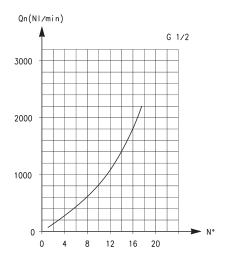
Qn = supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet N° = number of screw turns.

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS



Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 710 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 410

Qn = supply pressure of 6 bar and with ΔP = 1 bar at the outlet N° = number of screw turns.



Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 2570 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 1330

Qn = supply pressure of 6 bar and with ΔP = 1 bar at the outlet N° = number of screw turns.

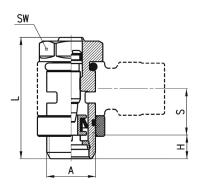
Unidirectional flow controllers Series SCU

FLOW CONTROL VALVES > SERIES SCU, MCU, SVU, MVU, SCO, MCO VALVES

For mounting on single-acting or double-acting cylinders.

Adjustment of setting by a screwdriver. Ports: M5, G1/8, G1/4 and G3/8.

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170.



Note: M5 flow controllers must be used together with M6 adjustable

fittings.

DIMENSIONS					
Mod.	А	Н	L	S	SW
SCU 602-M5	M5	3,5	21,5	5,5	8
SCU 604-1/8	G1/8	5	31,5	12,5	12
SCU 606-1/4	G1/4	6	32,5	12,5	15
SCU 608-3/8	G3/8	7	40,5	12,5	18

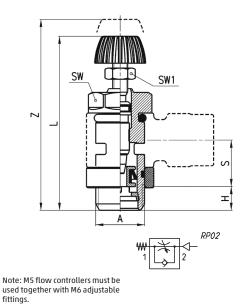


Unidirectional flow controllers Series MCU



For mounting on single-acting or double-acting cylinders. Adjustment of setting by a manually operated knurled screw. Ports: M5, G1/8, G1/4, G3/8.

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170.



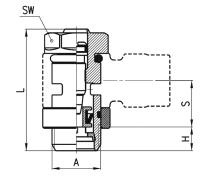
DIMENSIONS							
Mod.	А	Н	L	S	SW	SW1	Z
MCU 702-M5	M5	3,5	31	5,5	8	5,5	35
MCU 704-1/8	G1/8	5	41	12,5	12	7	46
MCU 706-1/4	G1/4	6	43,5	12,5	15	7	49
MCU 708-3/8	G3/8	7	52,5	12,5	18	10	60,5

Unidirectional flow controllers Series SVU



For mounting on valves. Adjustment of setting by a screwdriver. Ports: M5, G1/8, G1/4.

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170.



DIMENSIONS						
Mod.	А	Н	L	S	SW	_
SVU 602-M5	M5	3,5	21,5	5,5	8	
SVU 604-1/8	G1/8	5	31,5	12,5	12	
SVU 606-1/4	G1/4	6	32,5	12,5	15	



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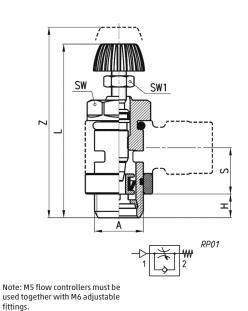
Note: M5 flow controllers must be used together with M6 adjustable fittings.





For mounting on valve. Adjustment of setting by a manually operated knurled screw. Ports: M5, G1/8, G1/4.

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170.



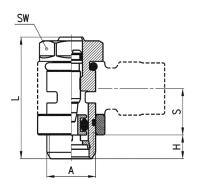
DIMENSIONS							
Mod.	А	Н	L	S	SW	SW1	Z
MVU 702-M5	M5	3,5	31	5,5	8	5,5	35
MVU 704-1/8	G1/8	5	41	12,5	12	7	46
MVU 706-1/4	G1/4	6	43,5	12,5	15	7	49

Bidirectional flow controllers Series SCO



Adjustment of setting by a screwdriver. Ports: M5, G1/8, G1/4.

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170; 2905.



DIMENSIONS					
Mod.	A	Н	L	S	SW
SCO 602-M5	M5	3,5	21,5	5,5	8
SCO 604-1/8	G1/8	5	31,5	12,5	12
SCO 606-1/4	G1/4	6	32,5	12,5	15

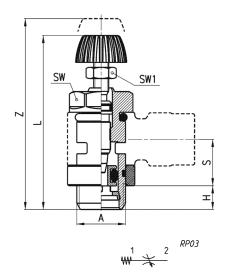


Bidirectional flow controllers Series MCO



Adjustment of setting by a manually operated knurled screw. Ports: M5, G1/8, G1/4.

Assembly with fittings Mod. 6610; 6620; 1610; 1620; 2023; 1170; 2905.



DIMENSIONS							
Mod.	А	Н	L	S	SW	SW1	Z
MCO 702-M5	M5	3,5	31	5,5	8	5,5	35
MCO 704-1/8	G1/8	5	41	12,5	12	7	46
MCO 706-1/4	G1/4	6	43,5	12,5	15	7	49

Note: M5 flow controllers must be used together with M6 adjustable fittings.

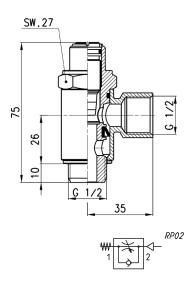
Note: M5 flow controllers must be used together with M6 adjustable fittings.

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Unidirectional flow controllers Series SCU



For mounting on single-acting or double-acting cylinders. Screwdriver adjustment.



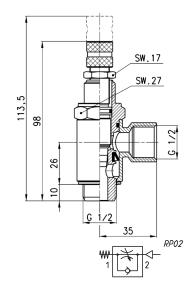
Mod. SCU 610-1/2

SERIES SCU, MCU, SVU, MVU, SCO, MCO VALVES

Unidirectional flow controllers Series MCU



For mounting on single-acting or double-acting cylinders. Adjustment of setting by a manually operated knurled screw.

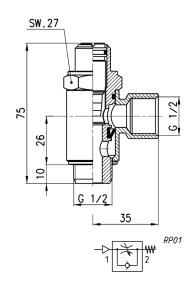


Mod. MCU 710-1/2

Unidirectional flow controllers Series SVU



For mounting on valves. Screwdriver adjustment.



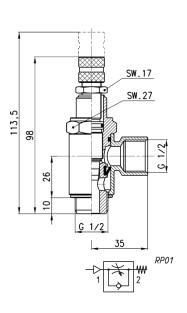
Mod. SVU 610-1/2



Unidirectional flow controllers Series MVU



For mounting on valve. Adjustment of setting by a manually operated knurled screw.

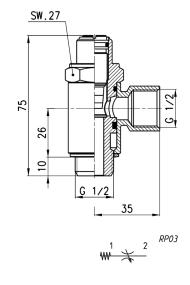


Mod.
MVU 710-1/2

Bidirectional flow controllers Series SCO



Screwdriver adjustment.

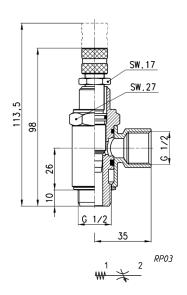


Mod. SCO 610-1/2

Bidirectional flow controllers Series MCO



Adjustment of setting by a manually operated knurled screw.

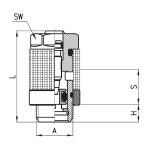


Mod. MCO 710-1/2

Silenced exhaust controllers Mod. SCO + 2905

The flow control valve Mod. SCO and the silencer Mod. 2905 are supplied separately.





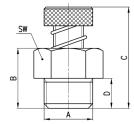


DIMENSIONS					
Mod.	А	Н	L	S	SW
SCO 602-M5+2905 M5	M5	3.5	21.5	5.5	8
SCO 604-1/8+2905 1/8	G1/8	5	31.5	12.5	12
SCO 606-1/4+2905 1/4	G1/4	6	32.5	12.5	15

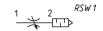
Ports: G1/8, G1/4, G1/2.







DIMENSION	S					
Mod.	А	В	С	D	SW	Q* (Nl/min)
RSW 1/8	G1/8	10.5	22	6	13	410
RSW 1/4	G1/4	13	27	7.5	16	650
RSW 3/8	G3/8	16	30	9.5	20	1100
RSW 1/2	G1/2	18	40	10.5	26	1700



*determined with supply pressure 6 bar with free flow; ensuring screw is open to maximum output.

Series PSCU, PMCU, PSVU, PMVU, PSCO, PMCO flow control valves

Unidirectional and bidirectional flow regulators with banjo in brass (M5) or in technopolymer (G1/8, G1/4, G3/8) Ports: M5, G1/8, G1/4, G3/8



These unidirectional and bidirectional flow controllers have been designed as small as possible so as to be mounted directly on valves or cylinders. The great variety of adjustable fittings makes it possible to complete the regulator with the most suitable system in relation to the available tube.

All models are supplied complete with banjo flow controllers.

GENERAL DATA

Construction	needle type
Valve group	unidirectional and bidirectional controller
Materials	body, regulation screw: stainless steel (M5), brass (G1/8 - G1/4 - G3/8) collet and insert = brass banjo: brass (M5), technopolymer (G1/8 - G1/4 - G3/8) controller = technopolymer - seals = NBR
Mounting	by male thread
Ports	M5 - G1/8 - G1/4 - G3/8
Installation	in any position
Operating temperature	0°C ÷ 60°C (with dry air -20°C)
Operating pressure	1 ÷ 10 bar
Nominal pressure	6 bar
Nominal flow	see graph
Nominal diameter	M5 = 1.5 mm - G1/8 = 2 mm - G1/4 = 4 mm - G3/8 = 7 mm
Fluid	filtered air. If lubricated air is used, it is recommended to use ISOVG 32 oil. Once applied the lubrication should never be interrupted.

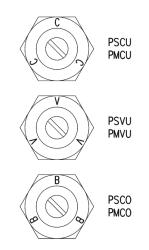
SERIES PSCU, PMCU, PSVU, PMVU, PSCO, PMCO VALVES

CODING EXAMPLE

	D.4	CI I	7	0/		1 /0		1.
P	Μ	CU	7	04	-	1/8	-	4
Ρ	SERIES							
М	ACTUATION: M = Manual S = Screwdriver							
CU	ASSEMBLY: CU = on cylinders u VU = on valves unic CO = bidirectional	nidirectional lirectional						
7	VERSIONS: 6 = needle (screwd 7 = needle (manua	river operated) l operated)						
04	NOMINAL DIAMETEF 02 = Ø1.5 MAX 04 = Ø2 MAX 06 = Ø4 MAX 08 = Ø7 MAX	t:						
1/8	PORTS: M5 = M5 1/8 = G1/8 1/4 = G1/4 3/8 = G3/8							
4	TUBE: 4 = Ø 4 6 = Ø 6 8 = Ø 8 10 = Ø 10 12 = Ø 12							

To ensure the right choice of unidirectional flow controller, proceed as follows: calculate the quantity of air in NI/min (see cylinders table); determine the stroke time of the cylinder; refer to graph to see which is the right type of controller.

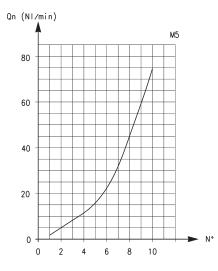
UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROLLERS

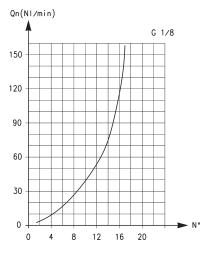


IDENTIFICATION OF DIFFERENT TYPES: PSCU - PMCU = assembly directly on the cylinders PSVU - PMVU = assembly directly on the valves PSCO - PMCO = assembly directly on the cylinders or valves

SERIES PSCU, PMCU, PSVU, PMVU, PSCO, PMCO VALVES

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS





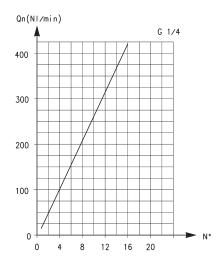
Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 70 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 33

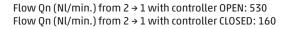
Qn = supply pressure of 6 bar and with ΔP = 1 bar at the outlet N° = number of screw turns

Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 200 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 70

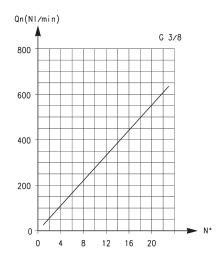
Qn = supply pressure of 6 bar and with ΔP = 1 bar at the outlet N° = number of screw turns

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS





Qn = supply pressure of 6 bar and with ΔP = 1 bar at the outlet N° = number of screw turns



Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 710 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 410

Qn = supply pressure of 6 bar and with ΔP = 1 bar at the outlet N° = number of screw turns

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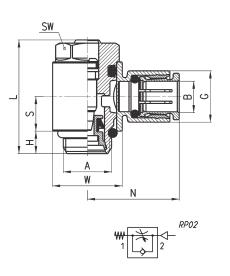
Unidirectional flow controllers Series PSCU

For mounting on single-acting or double-acting

cylinders. A screwdriver must be used to adjust the registration setting. Ports: M5, G1/8, G1/4 and G3/8.

Port M5: banjo in brass

DIMENSIONS									
Mod.	А	В	G	Н	L	N	S	w	SW
PSCU 602-M5-4	M5	4	8.6	3.5	21.5	18	5.7	8	8
PSCU 602-M5-6	M5	6	10.4	3.5	21.5	19	5.7	8	8
PSCU 604-1/8-4	G1/8	4	11.6	5	27	21	7.75	14	12
PSCU 604-1/8-6	G1/8	6	11.6	5	27	21	7.75	14	12
PSCU 604-1/8-8	G1/8	8	13.9	5	27	22.5	7.75	14	12
PSCU 606-1/4-6	G1/4	6	13.9	6	30.5	24.5	9.25	18.6	15
PSCU 606-1/4-8	G1/4	8	13.9	6	30.5	24.5	9.25	18.6	15
PSCU 606-1/4-10	G1/4	10	16.1	6	30.5	27	9.25	18.6	15
PSCU 608-3/8-10	G3/8	10	20.2	7	36.5	29	11	22	18
PSCU 608-3/8-12	G3/8	12	20.2	7	36.5	29	11	22	18



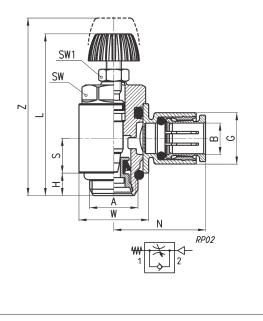
Unidirectional flow controllers Series PMCU



For mounting on single-acting or double-acting cylinders. A manually operated knurled screw must be used to adjust the registration setting. Ports: M5, G1/8, G1/4 and G3/8.

Port M5: banjo in brass

DIMENSIONS											
Mod.	А	В	G	Н	L	Ν	S	W	SW	SW1	Z
PMCU 702-M5-4	M5	4	8.6	3.5	31	18	5.7	8	8	5.5	35
PMCU 702-M5-6	M5	6	10.4	3.5	31	19	5.7	8	8	5.5	35
PMCU 704-1/8-4	G1/8	4	11.6	5	36.5	21	7.75	14	12	7	42.5
PMCU 704-1/8-6	G1/8	6	11.6	5	36.5	21	7.75	14	12	7	42.5
PMCU 704-1/8-8	G1/8	8	13.9	5	36.5	22.5	7.75	14	12	7	42.5
PMCU 706-1/4-6	G1/4	6	13.9	6	42	24.5	9.25	18.6	15	7	48
PMCU 706-1/4-8	G1/4	8	13.9	6	42	24.5	9.25	18.6	15	7	48
PMCU 706-1/4-10	G1/4	10	16.1	6	42	27	9.25	18.6	15	7	48
PMCU 708-3/8-10	G3/8	10	20.2	7	48.5	29	11	22	18	10	56.5
PMCU 708-3/8-12	G3/8	12	20.2	7	48.5	29	11	22	18	10	56.5



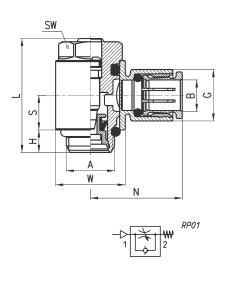
Unidirectional flow controllers Series PSVU



For mounting on valves. A screwdriver must be used to adjust the registration setting. Ports: M5, G1/8, G1/4 and G3/8.

Port M5: banjo in brass

DIMENSIONS									
Mod.	А	В	G	Н	L	Ν	S	w	SW
PSVU 602-M5-4	M5	4	8.6	3.5	21.5	18	5.7	8	8
PSVU 602 M5-6	M5	6	10.4	3.5	21.5	19	5.7	8	8
PSVU 604-1/8-4	G1/8	4	11.6	5	27	21	7.75	14	12
PSVU 604-1/8-6	G1/8	6	11.6	5	27	21	7.75	14	12
PSVU 604-1/8-8	G1/8	8	13.9	5	27	22.5	7.75	14	12
PSVU 606-1/4-6	G1/4	6	13.9	6	30.5	24.5	9.25	18.6	15
PSVU 606-1/4-8	G1/4	8	13.9	6	30.5	24.5	9.25	18.6	15
PSVU 606-1/4-10	G1/4	10	16.1	6	30.5	27	9.25	18.6	15
PSVU 608-3/8-10	G3/8	10	20.2	7	36.5	29	11	22	18
PSVU 608-3/8-12	G3/8	12	20.2	7	36.5	29	11	22	18



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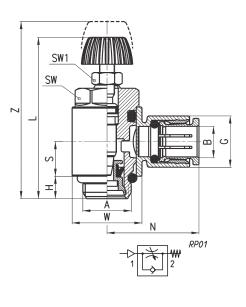
Unidirectional flow controllers Series PMVU



For mounting on valve. A manually operated knurled screw must be used to adjust the registration setting. Ports: M5, G1/8, G1/4 and G3/8.

Port M5: banjo in brass

DIMENSIONS											
Mod.	A	В	G	Н	L	N	S	W	SW	SW1	Z
PMVU 702-M5-4	M5	4	8.6	3.5	31	18	5.7	8	8	5.5	35
PMVU 702-M5-6	M5	6	10.4	3.5	31	19	5.7	8	8	5.5	35
PMVU 704-1/8-4	G1/8	4	11.6	5	36.5	21	7.75	14	12	7	42.5
PMVU 704-1/8-6	G1/8	6	11.6	5	36.5	21	7.75	14	12	7	42.5
PMVU 704-1/8-8	G1/8	8	13.9	5	36.5	22.5	7.75	14	12	7	42.5
PMVU 706-1/4-6	G1/4	6	13.9	6	42	24.5	9.25	18.6	15	7	48
PMVU 706-1/4-8	G1/4	8	13.9	6	42	24.5	9.25	18.6	15	7	48
PMVU 706-1/4-10	G1/4	10	16.1	6	42	27	9.25	18.6	15	7	48
PMVU 708-3/8-10	G3/8	10	20.2	7	48.5	29	11	22	18	10	56.5
PMVU 708-3/8-12	G3/8	12	20.2	7	48.5	29	11	22	18	10	56.5



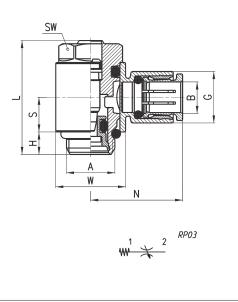
Bidirectional flow controllers Series PSCO



A screwdriver must be used to adjust the registration setting. Ports: M5, G1/8, G1/4 and G3/8.

Port M5: banjo in brass

DIMENSIONS									
Mod.	А	В	G	Н	L	Ν	S	W	SW
PSCO 602-M5-4	M5	4	8.6	3.5	21.5	18	5.7	8	8
PSCO 602-M5-6	M5	6	10.4	3.5	21.5	19	5.7	8	8
PSCO 604-1/8-4	G1/8	4	11.6	5	27	21	7.75	14	12
PSCO 604-1/8-6	G1/8	6	11.6	5	27	21	7.75	14	12
PSCO 604-1/8-8	G1/8	8	13.9	5	27	22.5	7.75	14	12
PSCO 606-1/4-6	G1/4	6	13.9	6	30.5	24.5	9,25	18.6	15
PSCO 606-1/4-8	G1/4	8	13.9	6	30.5	24.5	9.25	18.6	15
PSCO 606-1/4-10	G1/4	10	16.1	6	30.5	27	9.25	18.6	15
PSCO 608-3/8-10	G3/8	10	20.2	7	36.5	29	11	22	18
PSCO 608-3/8-12	G3/8	12	20.2	7	36.5	29	11	22	18
PSC0 606-1/4-8 PSC0 606-1/4-10 PSC0 608-3/8-10	G1/4 G1/4 G3/8	8 10 10	13.9 16.1 20.2	6 6 7	30.5 30.5 36.5	24.5 27 29	9.25 9.25 11	18.6 18.6 22	15 15 18



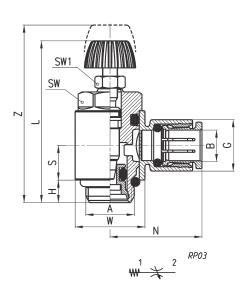
Bidirectional flow controllers Series PMCO



A manually operated knurled screw must be used to adjust the registration setting. Ports: M5, G1/8, G1/4 and G3/8.

Port M5: banjo in brass

DIMENSIONS											
Mod.	А	В	G	Н	L	Ν	S	W	SW	SW1	Z
PMC0 702-M5-4	M5	4	8.6	3.5	31	18	5.7	8	8	5.5	35
PMCO 702-M5-6	M5	6	10.4	3.5	31	19	5.7	8	8	5.5	35
PMC0 704-1/8-4	G1/8	4	11.6	5	36.5	21	7.75	14	12	7	42.5
PMCO 704-1/8-6	G1/8	6	11.6	5	36.5	21	7.75	14	12	7	42.5
PMC0 704-1/8-8	G1/8	8	13.9	5	36.5	22.5	7.75	14	12	7	42.5
PMCO 706-1/4-6	G1/4	6	13.9	6	42	24.5	9.25	18.6	15	7	48
PMC0 706-1/4-8	G1/4	8	13.9	6	42	24.5	9.25	18.6	15	7	48
PMC0 706-1/4-10	G1/4	10	16.1	6	42	27	9.25	18.6	15	7	48
PMC0 708-3/8-10	G3/8	10	20.2	7	48.5	29	11	22	18	10	56.5
PMC0 708-3/8-12	G3/8	12	20.2	7	48.5	29	11	22	18	10	56.5



Series TMCU, TMVU, TMCO flow control valves

Unidirectional and bidirectional banjo flow controllers with nominal diameter 2 - 3,8 - 5,8 - 8 mm Ports: G1/8, G1/4, G3/8, G1/2



Series TMCU, TMVU, TMCO unidirectional and bidirectional flow controllers have been revised in order to decrease their dimensions and improve their flow rate characteristics. Their construction allows for easy assembly to cylinders and valves and allows the regulation adjustment to be precise and gradual.

GENERAL DATA

Construction	needle - type
Valve group	unidirectional and bidirectional controller
Materials	brass - technopolymer - NBR
Mounting	by male threaded
Threaded ports	G1/8 - G1/4 - G3/8 - G1/2
Installation	in any position
Operating temperature	0°C ÷ 60°C (with dry air -20°C)
Operating pressure	0,5 ÷ 10 bar
Nominal pressure	6 bar
Nominal flow	see graph
Nominal dia.	Tube 4 Ø2 - Tube 6 Ø3,8 - Tube 8 Ø5,8 - Tube 10 and 12 Ø8
Fluid	filtered air. If lubricated air is used, it is recommended to use ISOVG 32 oil. Once applied the lubrication should never be interrupted.

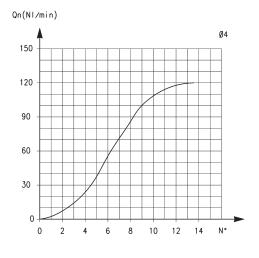


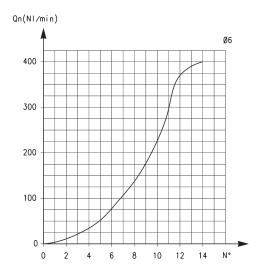
CODING EXAMPLE

ТМ	CU	9	74	-	1/8	-	6
ТМ	ACTUATION: TM = manual						
CU	ASSEMBLY: CU = on cylinders unidirectional VU = on valves unidirectional CO = bidirectional						
9	VERSIONS: 9 = manual needle						
74	REGULATION: step - ø tube 72 = 2 4 74 = 3.8 6 76 = 5.8 8 78 = 8 10						
1/8	PORTS: 1/8 1/4 3/8 1/2						
6	Ø TUBE: 4 6 8 10						

To ensure the right choice of unidirectional flow controller, proceed as follows: calculate the quantity of air in NI/min (see cylinder Table); determine the stroke time of the cylinder; refer to graph to see which controller is the right type.

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS





TUBE Ø4

Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 400 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 280 Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet

N° = number of screw turns.

TUBE Ø6

Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 550 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 280 Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet

N° = number of screw turns.

Qn(NI/min)

1500

1200

Qn(NI/min) Ø8 800 600 400 200 0 0 2 4 6 8 10 12 14 N٩

TUBE Ø8

Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 890 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 460 Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet N° = number of screw turns.

900 600 300

2

TUBE Ø10

Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: Ø 10-1200/Ø12-1250

6 8

4

Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: Ø 10-600/ Ø12-600

10

12 14

Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet

N° = number of screw turns.

0

0

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UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS

Ø10

N°

Series TMCU valves



Unidirectional flow controller for mounting on single-acting or double-acting cylinders. Adjustment of setting by a hexagonal male key or a manually operated knurled screw. Ports: G1/8, G1/4, G3/8, G1/2

7	SW 1	
Z		
1		
	SW M	

DIMENSIONS										
Mod.	А	В	F	Н	L	М	S	SW	SW1	Z
TMCU 972-1/8-4	G1/8	4	11,5	5	43	21,5	16,5	16	1,5	50
TMCU 974-1/8-6	G1/8	6	11,5	5	43	21,5	16,5	16	1,5	50
TMCU 974-1/4-6	G1/4	6	11,5	6	44	21,5	16,5	17	1,5	51
TMCU 976-1/8-8	G1/8	8	13,5	5	47	25	17,5	19	2,5	54
TMCU 976-1/4-8	G1/4	8	13,5	6	48,5	25	18	19	2,5	55,5
TMCU 976-3/8-8	G3/8	8	13,5	7	49,5	25	18	20	2,5	56,5
TMCU 978-3/8-10	G3/8	10	16	7	51	29	17	25	2,5	59,5
TMCU 978-1/2-10	G1/2	10	16	8	52	29	17	25	2,5	60,5





DIMENSIONS

Unidirectional flow controller for mounting on valves. Adjustment of setting by a hexagonal male key or a

manually operated knurled screw. Ports: G1/8, G1/4, G3/8, G1/2

SW 1
SW / M

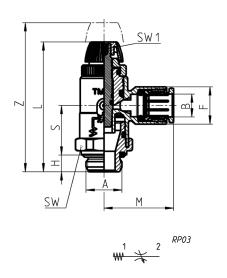
DIMENSIONS										
Mod.	А	В	F	Н	L	М	S	SW	SW1	Z
TMVU 972-1/8-4	G1/8	4	11,5	5	43	21,5	16,5	16	1,5	50
TMVU 974-1/8-6	G1/8	6	11,5	5	43	21,5	16,5	16	1,5	50
TMVU 974-1/4-6	G1/4	6	11,5	6	44	21,5	16,5	17	1,5	51
TMVU 976-1/8-8	G1/8	8	13,5	5	47	25	17,5	19	2,5	54
TMVU 976-1/4-8	G1/4	8	13,5	6	48,5	25	18	19	2,5	55,5
TMVU 976-3/8-8	G3/8	8	13,5	7	49,5	25	18	20	2,5	56,5
TMVU 978-3/8-10	G3/8	10	16	7	51	29	17	25	2,5	59,5
TMVU 978-1/2-10	G1/2	10	18	8	52	29	17	25	2,5	60,5

Series TMCO valves



Bidirectional flow controller. Adjustment of setting by a hexagonal male key or a manually operated knurled screw. Ports: G1/8, G1/4, G3/8, G1/2

DIMENSIONS										
Mod.	A	В	F	Н	L	М	S	SW	SW1	Z
TMC0 972-1/8-4	G1/8	4	11,5	5	43	21,5	16,5	16	1,5	50
TMCO 974-1/8-6	G1/8	6	11,5	5	43	21,5	16,5	16	1,5	50
TMCO 974-1/4-6	G1/4	6	11,5	6	44	21,5	16,5	17	1,5	51
TMCO 976-1/8-8	G1/8	8	13,5	5	47	25	17,5	19	2,5	54
TMC0 976-1/4-8	G1/4	8	13,5	6	48,5	25	18	19	2,5	55,5
TMCO 976-3/8-8	G3/8	8	13,5	7	49,5	25	18	20	2,5	56,5
TMC0 978-3/8-10	G3/8	10	16	7	51	29	17	25	2,5	59,5
TMC0 978-1/2-10	G1/2	10	16	8	52	29	17	25	2,5	60,5





Series GSCU, GMCU, GSVU, GMVU, GSCO, GMCO flow control valves

Unidirectional and bidirectional banjo flow controllers with nominal diameter 1,5 - 3,5 - 5 mm Ports: M5, G1/8 and G1/4





These unidirectional and bidirectional flow controllers have been designed as small as possible to enable mounting directly on valves or cylinders.

The flow regulation range is wide and gradual, allowing the regulation to be very accurate either at minimum or maximum flow.

GENERAL DATA

Construction	needle - type
Valve group	unidirectional and bidirectional controller
Materials	body and screws M5 inox; 1/8 - 1/4 - 3/8 - 1/2 OT58 seals NBR
Mounting	by male threaded
Installation	in any position
Operating temperature	0°C ÷ 80°C (with dry air -20°C)
Operating pressure	1 ÷ 10 bar
Nominal pressure	6 bar
Nominal flow	see graph
Nominal diameter	M5 = 1.5 mm - G1/8 = 2 mm - G1/4 = 4 mm G3/8 = 7 mm - G1/2 = 12 mm
Fluid	filtered air. If lubricated air is used, it is recommended to use ISOVG 32 oil. Once applied the lubrication should never be interrupted.



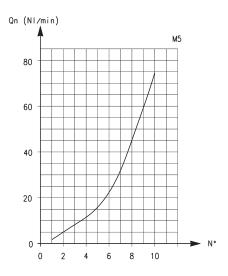
CODING EXAMPLE

GM	CU	9	03	-	1/8	-	6
GM	ACTUATION: GM = manual GS = screwdriver						
CU	ASSEMBLY: CU = on cylinders unidirectional VU = on valves unidirectional CO = bidirectional						
9	VERSIONS: 8 = needle (screwdriver operated) 9 = needle (manually operated)						
03	FLOW CONTROL RANGE: size Ø tube 13 = 1.5 3 14 = 1.5 4 03 = 3.5 6 04 = 3.5 8 05 = 5 8 06 = 5 10						
1/8	PORTS: M5 1/8 1/4						
6	Ø TUBE: 3 4 6 8 10						

To ensure the right choice of unidirectional flow controller, proceed as follows: calculate the quantity of air in Nl/min (see cylinder Table); determine the stroke time of the cylinder; refer to graph to see which controller is the right type.

SERIES GSCU, GMCU, GSCO, GMCO VALVES

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS



To ensure the right choice of unidirectional flow controller, proceed as follows: calculate the quantity of air in Nl/min (see cylinder Table); determine the stroke time of the cylinder; refer to graph to see which controller is the right type.

In the case of bidirectional regulators, refer to the graph and check whether the flow control range is suitable for the work required.

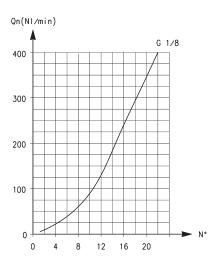
M5

Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 70 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 33

N° = number of screw turns

NB: Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet.

UNIDIRECTIONAL AND BIDIRECTIONAL FLOW CONTROL REGULATORS

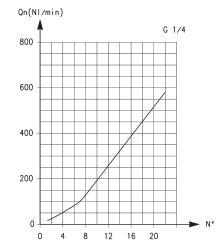


G1/8

Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 440 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 170

N° = number of screw turns

NB: Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet.



G1/4

Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller OPEN: 790 Flow Qn (Nl/min.) from $2 \rightarrow 1$ with controller CLOSED: 460

N° = number of screw turns

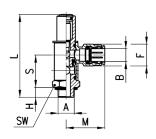
NB: Qn is determined with a supply pressure of 6 bar and with $\Delta P = 1$ bar at the outlet.

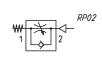


Valves Series GSCU



Unidirectional flow controller for mounting on single-acting or double-acting cylinders. Screwdriver adjustment. Ports: M5, G1/8, G1/4.



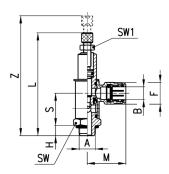


DIMENSIONS								
Mod.	Α	В	S	Н	L	М	F	SW
GSCU 813-M5-3	M5	3	12	3	27,5	12,5	6,5	8
GSCU 814-M5-4	M5	4	12	3	27,5	19	8,8	8
GSCU 803-1/8-6	G1/8	6	22,5	5	50	26,5	13	14
GSCU 804-1/8-8	G1/8	8	22,5	5	50	28	15	14
GSCU 805-1/4-8	G1/4	8	27	7	67,5	28,5	15	19
GSCU 806-1/4-10	G1/4	10	27	7	67,5	31	17,5	19

Valves Series GMCU



Unidirectional flow controller for mounting on single-acting or double-acting cylinders. Knurled screw adjustment. Ports: M5, G1/8, G1/4.



DIMENSIONS										
Mod.	А	В	S	Н	L	Z	М	F	SW	SW1
GMCU 913-M5-3	M5	3	12	3	37	42,5	12,5	6,5	8	5,5
GMCU 914-M5-4	M5	4	12	3	37	42,5	19	8,8	8	5,5
GMCU 903-1/8-6	G1/8	6	22,5	5	65,5	72,5	26,5	13	14	7
GMCU 904-1/8-8	G1/8	8	22,5	5	65,5	72,5	28	15	14	7
GMCU 905-1/4-8	G1/4	8	27	7	85	97,5	28,5	15	19	10
GMCU 906-1/4-10	G1/4	10	27	7	85	97,5	31	17,5	19	10

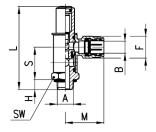


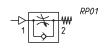
Valves Series GSVU



Unidirectional flow controller for mounting on valves. Screwdriver adjustment. Ports: M5, G1/8, G1/4.

DIMENSIONS								
Mod.	А	В	S	Н	L	М	F	SW
GSVU 813-M5-3	M5	3	12	3	27,5	12,5	6,5	8
GSVU 814-M5-4	M5	4	12	3	27,5	19	8,8	8
GSVU 803-1/8-6	G1/8	6	22,5	5	50	26,5	13	14
GSVU 804-1/8-8	G1/8	8	22,5	5	50	28	15	14
GSVU 805-1/4-8	G1/4	8	27	7	67,5	28,5	15	19
GSVU 806-1/4-10	G1/4	10	27	7	67,5	31	17,5	19





Valves Series GMVU



Unidirectional flow controller for mounting on valve. Adjustment of setting by a manually operated knurled screw.

SW

8

8

14

14

19

19

SW1

5,5

5,5

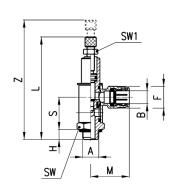
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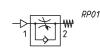
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10

10

Ports: M5, G1/8, G1/4.



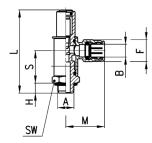


DIMENSIONS									
Mod.	А	В	S	Н	L	Z	М	F	
GMVU 913-M5-3	M5	3	12	3	37	42,5	12,5	6,5	
GMVU 914-M5-4	M5	4	12	3	37	42,5	19	8,8	
GMVU 903-1/8-6	G1/8	6	22,5	5	50	72,5	26	13	
GMVU 904-1/8-8	G1/8	8	22,5	5	50	72,5	28	15	
GMVU 905-1/4-8	G1/4	8	27	7	67,5	97,5	29	15	
GMVU 906-1/4-10	G1/4	10	27	7	67,5	97,5	31	17,5	
									_

Valves Series GSCO



Bidirectional flow controller. Screwdriver adjustment. Ports: M5, G1/8, G1/4.



DIMENSIONS								
Mod.	А	В	S	Н	L	М	F	SW
GSCO 813-M5-3	M5	3	12	3	27,5	12,5	6,5	8
GSCO 814-M5-4	M5	4	12	3	27,5	19	8,8	8
GSCO 803-1/8-6	G1/8	6	22,5	5	50	26,5	13	14
GSCO 804-1/8-8	G1/8	8	22,5	5	50	28	15	14
GSCO 805-1/4-8	G1/4	8	27	7	67,5	28,5	15	19
GSCO 806-1/4-10	G1/4	10	27	7	67,5	31	17,5	19

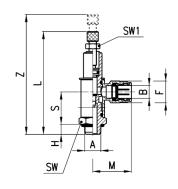


Valves Series GMCO



Bidirectional flow controller. Adjustment of setting by a manually operated knurled screw. Ports: M5, G1/8, G1/4.

DIMENSIONS										
Mod.	А	В	S	Н	L	Z	М	F	SW	SW1
GMCO 913-M5-3	M5	3	12	3	37	42,5	12,5	6,5	8	5,5
GMCO 914-M5-4	M5	4	12	3	37	42,5	19	8,8	8	5,5
GMC0 903-1/8-6	G1/8	6	22,5	5	65,5	72,5	26,5	13	14	7
GMCO 904-1/8-8	G1/8	8	22,5	5	65,5	72,5	28	15	14	7
GMC0 905-1/4-8	G1/4	8	27	7	85	97,5	28,5	15	19	10
GMC0 906-1/4-10	G1/4	10	27	7	85	97,5	31	17,5	19	10





Series RFU and RFO flow control valves

Unidirectional and bidirectional Ports: M5, G1/8, G1/4, G3/8 and G1/2 Nominal diameters: 1,5 mm (M5), 2 and 3 mm (G1/8), 4 and 6 mm (G1/4), 7 mm (G3/8 and G1/2)



The unidirectional flow controllers are equipped with M5, G1/8, G1/4, G3/8 and G1/2 ports.

G1/8 and G1/4 ports are available with two different types of adjustment (see diagrams), whereas M5, G3/8 and G1/2 ports have just one type of adjustment. All models can be panel or wall mounted or they can be mounted on cylinders, as required.

needle-type

as required **Operating temperature** 0°C ÷ 80°C (with dry air - 20°C)

6 bar

see graph

unidirectional and bidirectional controller

M5 - G1/8 - G1/4 - G3/8 - G1/2

AL body - brass needle (not nickel-plated) - NBR seals

1 ÷ 10 bar (for models with M5 - G1/8 - G1/4 ports) 2 ÷ 10 bar (for models with G3/8 - G1/2 ports)

with screws in the holes of the valve body or panel mounted

M5 = 1,5 - G1/8 = 2 or 3 mm - G1/4 = 4 or 6 mm - G3/8 and G1/2 = 7 mm

GENERAL DATA Construction

Valve group Materials

Mounting

Threaded ports

Operating pressure

Nominal pressure

Nominal diameter

Nominal flow

Fluid

Installation

To choose the most suitable model, it is recommended to:

1. calculate the quantity of air in Nl/min (see the cylinders tables in the catalogue appendix);

2. determine the stroke time of the cylinder;

3. check the flow diagrams (see pages 2/7.20.03 and 2/7.20.04).

filtered air. If lubricated air is used, it is recommended to use ISOVG 32 oil. Once applied the lubrication should never be interrupted.

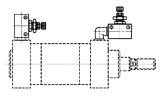
- » Series RFU: unidirectional flow control valves for the speed regulation of a cylinder
- » Series RFO: bidirectional flow control valves for the air flow regulation in both directions and for the pressurization or depressurization of a container.

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CODING EXAMPLE

RF	U	4	8	2	-	1/8
RF	SERIES					
U 4	FUNCTION: U 4 = unidirectional O 3 = bidirectional					
8	PORTS: 4 = G1/4 5 = M5 6 = G3/8 7 = G1/2 8 = G1/8					
2	FLOW CONTROL RANGE: 2 = Ø 1.5 mm max (for ports M5) Ø 2 mm max (for ports 1/8 only) 3 = Ø 3 mm max (for ports 1/4 only) 4 = Ø 4 mm max (for ports 1/4 only) 6 = Ø 6 mm max (for ports 1/4 only) 7 = Ø 7 mm max (for ports 3/8, 1/2 only)					
1/8	PORTS: M5 1/8 1/4 3/8 1/2					

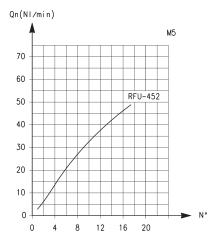
EXAMPLES OF SERIES RFO - RFU VALVES ASSEMBLY

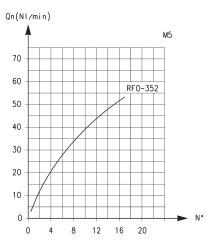




SERIES RFU AND RFO VALVES

FLOW DIAGRAMS (1 → 2) - VALVES SERIES RFU / RFO - M5 PORTS





RFU 452-M5: flow from 2 → 1 needle type OPEN = 55 Nl/min CLOSED = 41 Nl/min

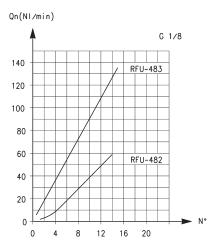
RFO 352-M5

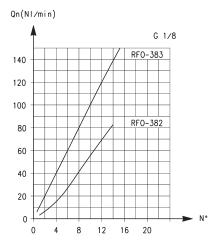
N° = number of screw turns Note: the flow (Qn) is determined with a pressure of 6 bar at the inlet and $\Delta P = 1$ bar at the outlet.

N° = number of screw turns

Note: the flow (Qn) is determined with a pressure of 6 bar at the inlet and $\Delta P = 1$ bar at the outlet.

FLOW DIAGRAMS (1 → 2) - VALVES SERIES RFU / RFO - G1/8 PORTS





RFU 482-1/8: flow from 2 → 1 needle type OPEN = 149 Nl/min CLOSED = 130,5 Nl/min

RFU 483-1/8: flow from 2 → 1 needle type OPEN = 180 Nl/min CLOSED = 140 Nl/min

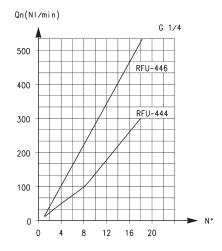
N° = number of screw turns

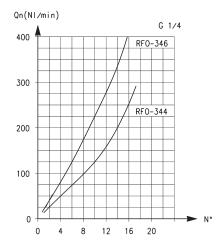
Note: the flow (Qn) is determined with a pressure of 6 bar at the inlet and $\Delta P = 1$ bar at the outlet.

RFO 382-1/8 - RFO 383-1/8

N° = number of screw turns Note: the flow (Qn) is determined with a pressure of 6 bar at the inlet and $\Delta P = 1$ bar at the outlet.

FLOW DIAGRAMS (1 → 2) - VALVES SERIES RFU / RFO - G1/4 PORTS





RFU 444-1/4: flow from 2 → 1 needle type OPEN = 680 Nl/min CLOSED = 534 Nl/min

RFU 446-1/4: flow from 2 \rightarrow 1 needle type OPEN = 680 Nl/min CLOSED = 534 Nl/min

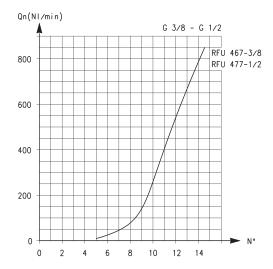
RFO 344-1/4 - RFO 346-1/4

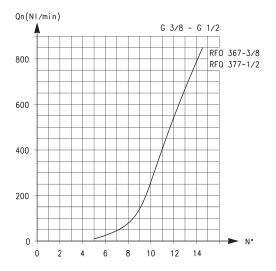
N° = number of screw turns. Note: the flow (Qn) is determined with a pressure of 6 bar at the inlet and $\Delta P = 1$ bar at the outlet.

N° = number of screw turns

Note: the flow (Qn) is determined with a pressure of 6 bar at the inlet and $\Delta P = 1$ bar at the outlet.

FLOW DIAGRAMS (1 → 2) - VALVES SERIES RFU / RFO - G3/8, G1/2 PORTS





RFU 467-3/8: flow from 2 → 1 needle type OPEN = 1700 Nl/min CLOSED = 1700 Nl/min

RFU 477-1/2: flow from 2 → 1 needle type OPEN = 1700 Nl/min CLOSED = 1700 Nl/min

N° = number of screw turns

Note: the flow (Qn) is determined with a pressure of 6 bar at the inlet and $\Delta P = 1$ bar at the outlet.

RFO 367-3/8 - RFO 377-1/2

N° = number of screw turns Note: the flow (Qn) is determined with a pressure of 6 bar at the inlet and $\Delta P = 1$ bar at the outlet.

SERIES RFU AND RFO VALVES

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SERIES RFU AND RFO VALVES

Unidirectional flow control valves Series RFU

L3

В

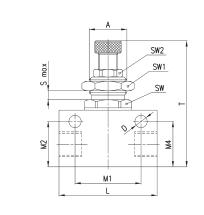


TABLE NOTE:

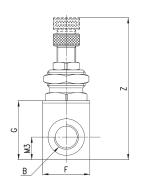
* knurled ring nut



RFU1



To regulate the cylinder speed, the discharging chamber air flow has to be controlled. Therefore, it is recommended to connect the valve threaded outlet 1 to the cylinder inlet and the outlet 2 to the valve user port.



DIMENSIONS																		
Mod.	Ø	А	В	D	F	G	L	M1	M2	M3	L3	M4	Т	Z	S _{Max}	SW	SW1	SW2
RFU 452-M5	1.5	M10x1	M5	4.2	14	16	26	18.5	13.2	7	-	13.2	39	44.5	3	12	14	8
RFU 482-1/8	2	M12x1	G1/8	4.5	16	21	34	24.5	16.5	8	-	16.5	46	51	4	14	17	9
RFU 483-1/8	3	M12x1	G1/8	4.5	16	21	34	24.5	16.5	8	-	16.5	46	51	4	14	17	9
RFU 444-1/4	4	M20x1.5	G1/4	6.5	25	30	52	35	24	12	-	24	60	69	7	22	24	14
RFU 446-1/4	6	M20x1.5	G1/4	6.5	25	30	52	35	24	12	-	24	60	69	7	22	24	14
RFU 467-3/8	7	M18x1	G3/8	6.5	27	42	56	43	34.5	14	28	7.5	75	85	8	22	22	*
RFU 477-1/2	7	M18x1	G1/2	6.5	27	42	56	43	34.5	14	28	7.5	75	85	8	22	22	*

Bidirectional flow control valves Series RFO

٢3

В

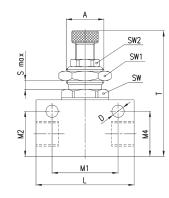


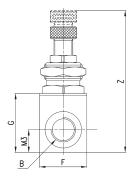
TABLE NOTE:

* knurled ring nut

2 H

RF01





DIMENSIONS																		
Mod.	Ø	А	В	D	F	G	L	M1	M2	M3	L3	M4	Т	Z	S _{Max}	SW	SW1	SW2
RF0 352-M5	1.5	M10x1	M5	4.2	14	16	26	18.5	13.2	7	-	13.2	39	44.5	3	12	14	8
RFO 382-1/8	2	M12x1	G1/8	4.2	16	21	34	24.5	16.5	8	-	16.5	46	51	4	14	17	9
RFO 383-1/8	3	M12x1	G1/8	4.5	16	21	34	24.5	16.5	8	-	16.5	46	51	4	14	17	9
RFO 344-1/4	4	M20x1.5	G1/4	6.5	25	30	52	35	24	12	-	24	60	69	7	22	24	14
RFO 346-1/4	6	M20x1.5	G1/4	6.5	25	30	52	35	24	12	-	24	60	69	7	22	24	14
RFO 367-3/8	7	M18x1	G3/8	6.5	27	42	56	43	34.5	14	28	7.5	75	85	8	22	22	*
RF0 377-1/2	7	M18x1	G1/2	6.5	27	42	56	43	34.5	14	28	7.5	75	85	8	22	22	*



Series 28 flow control valves

Bidirectional Ports: G1/8, G1/4, G3/8, G1/2



These are bidirectional control valves made entirely of nickel-plated brass, with NBR seals and a technopolymer control knob.

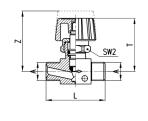
They are suitable for regulating compressed air, water or mineral oil. For models 2810, 2820, 2819 and 2829 exists the possibility to connect plastic, brass or copper tubes, using nut Mod. 1303 and cushion sleeve Mod. 1310/1320.

GENERAL DATA

Construction	cone - type
Materials	body = nickel-plated brass control knob = technopolymer seals = NBR
Ports	G1/8, G1/4, G3/8, G1/2
Installation	as required
Operating pressure	0°C ÷ 80°C (with dry air - 20°)
Operating pressure	0 ÷ 10 bar
Nominal flowrate	see table

Valve Mod. 2810



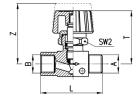




DIMENSIONS												
Mod.	Α	L	Т	Z	SW2	∆1bar Nl/min	Free flow Nl/min					
2810 1/8	G1/8	40	37	42,5	19	415	590					
2810 1/4	G1/4	42	37	42,5	19	508	740					
2810 3/8	G3/8	42	37	42,5	19	620	900					
2810 1/2	G1/2	54	42	48	22	1540	2080					

Valve Mod. 2820





2 H

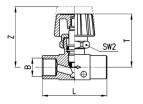
RF01

DIMENSION	DIMENSIONS											
Mod.	А	В	L	Т	Z	SW2	∆1bar Nl/min	Free flow Nl/min				
2820 1/8	G1/8	G1/8	41	37	42,5	19	400	640				
2820 1/4	G1/4	G1/4	44	37	42,5	19	530	840				
2820 3/8	G3/8	G3/8	55,5	41,5	48	22	1415	1990				
2820 1/2	G1/2	G1/2	59	42	49	22	1520	2150				

Valve Mod. 2830



DIMENSION	S						
Mod.	В	L	Т	Z	SW2	∆1bar Nl/min	Free flow Nl/min
2830 1/8	G1/8	42	37	42,5	19	415	635
2830 1/4	G1/4	46	37	42,5	19	530	850
2830 3/8	G3/8	62	41,4	48	22	1415	1980
2830 1/2	G1/2	64	42	49	22	1520	2100

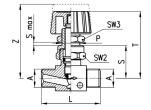




SERIES 28 VALVES

Valve Mod. 2819



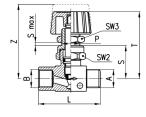




DIMENSION	S								
Mod.	А	L	Р	S	Т	Z	S _{Max}	SW2	SW3
2819 1/8	G1/8	40	1/4	23	47	52,5	7	19	17
2819 1/4	G1/4	42	1/4	23	47	52,5	7	19	17

Valve Mod. 2829





2 H 1	

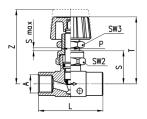
RF01

DIMENSIONS												
Mod.	Α	В	L	Р	S	Т	Z	S max	SW2	SW3		
2829 1/8	G1/8	G1/8	41	1/4	23	47	52,5	7	19	17		
2829 1/4	G1/4	G1/4	44	1/4	23	47	52,5	7	19	17		





DIMENSION	S								
Mod.	А	L	Р	S	Т	Z	S max	SW2	SW3
2839 1/8	G1/8	42	1/4	23	47	52,5	7	19	17
2839 1/4	G1/4	46	1/4	23	47	52,5	7	19	17
2839 3/8	G3/8	62	14X1	28	56,5	63	7	22	17
2839 1/2	G1/2	64	14X1	29	57	64	7	22	17





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



Series 29 mini ball valves for Pneumatics and industrial fluids

Tube external diameters: 4, 6 and 8mm Threads: BSP (G1/8, G1/4, G3/8, G1/2, R1/8, R1/4)



- » Reduction in installation time
- » Compact dimensions
- » Cost effective solution
- » Lightweight
- » Maximum flow capability
- » Easy-to-operate lever
- » Usage with polymer tubing
- » Available versions: MINI, ECO, butterfly and 3/2-way

The mini ball valves are used to open or close air or fluids in industrial applications characterised by extremely reduced spaces.

The miniaturised dimensions and light weight of Series 29 enable a quick installation at any point of the system, also thanks to the push-in connection or thread.

The design and materials used make this series particularly suitable for compressed air systems as well as hydraulic circuits and systems.

GENERAL DATA

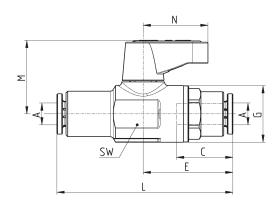
GENERAL DATA	
Function	2/2-way, 3/2-way with exhaust
Operation	90° lever rotation
Ports	G1/8, G1/4, G3/8, G1/2, R1/8, R1/4
Tube diameter	Ø 4, 6, 8 mm
Orifice diameter	6 mm (MINI version) 8 mm bis 10 mm (ECO, butterfly and 3/2-way with exhaust)
Operating pressure	0 ÷ 10 bar
Operating temperature	-10 °C ÷ 90 °C
Materials	valve body, rod, collet: brass; ball: nickel plated brass; ball seals: PTFE rod sealing ring: FKM; Lever: Glass charged PA66
Surface finishing	chrome plated, sandblasted and chrome plated (only butterfly version)
Medium	compressed air, inert gases, water, oil - other on demand

SERIES 29 MINI BALL VALVES

Mini ball valves, MINI version - Mod. 2948

2/2 in-line with Push-in Collet





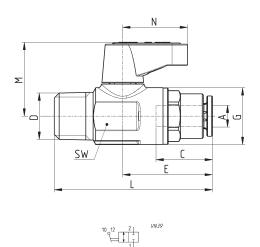
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Mod.	А	DN	С	E	G	L	М	Ν	SW
2948 4	4	6	14	22.5	16	45	21	18.5	14
2948 6	6	6	16	25.5	16	50	21	18.5	14
2948 8	8	6	17.5	27	16	53	21	18.5	14

Mini ball valves, MINI version - Mod. 2947







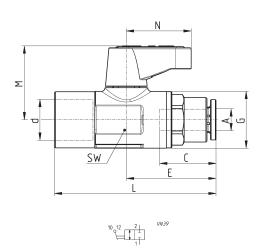
Mod.	А	d	DN	C	E	G	L	Μ	Ν	SW
2947 1/8-4	4	R1/8	6	14	22.5	16	39.5	21	18.5	14
2947 1/8-6	6	R1/8	6	16	25.5	16	42.5	21	18.5	14
2947 1/8-8	8	R1/8	6	17.5	27	16	44	21	18.5	14
2947 1/4-4	4	R1/4	6	14	22.5	16	42	21	18.5	14
2947 1/4-6	6	R1/4	6	16	25.5	16	45	21	18.5	14
2947 1/4-8	8	R1/4	6	17.5	27	16	46.5	21	18.5	14

Mini ball valves, MINI version - Mod. 2946



2/2 in-line with Push-in Collet, Female BSPP Threads

Mod.	А	d	DN	C	E	G	L	М	Ν	SW
2946 1/8-4	4	G1/8	6	14	22.5	16	41	21	18.5	14
2946 1/8-6	6	G1/8	6	16	25.5	16	44	21	18.5	14
2946 1/8-8	8	G1/8	6	17.5	27	16	45.5	21	18.5	14
2946 1/4-4	4	G1/4	6	14	22.5	16	43	21	18.5	14
2946 1/4-6	6	G1/4	6	16	25.5	16	46	21	18.5	14
2946 1/4-8	8	G1/4	6	17.5	27	16	47.5	21	18.5	14





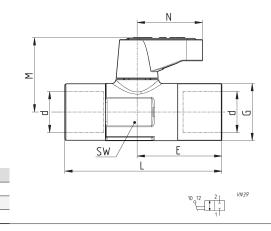
Mini ball valves, MINI version - Mod. 2943



Mod.

2943 1/8

2943 1/4



Mini ball valves, MINI version - Mod. 2944

Е

21

24

G

16

16

DN

6

6



d

G1/8

G1/4

2/2 in-line, Male BSPT-Female BSPP Threads

L

39.5

44.5

М

21

21

Ν

18.5

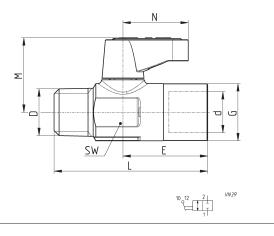
18.5

SW

14

14

2/2 in-line, Female-Female BSPP Threads



Mod.	d	D	DN	E	G	L	М	Ν	SW
2944 1/8-1/8	G1/8	R1/8	6	21	16	38	21	18.5	14
2944 1/4-1/4	G1/4	R1/4	6	24.5	16	43.5	21	18.5	14

2/2 in-line, Male BSPT Threads

G

16

16

ī.

38.5

43.5

М

21

21

Ν

18.5

18.5

SW

14

14

Mini ball valves, MINI version - Mod. 2945



Colored Interchangeable Clips Mod. C29

DN

6

6

Е

21

24



D

R1/8

R1/4



Mod.

2945 1/8

2945 1/4

SERIES 29 MINI BALL VALVES

Mini ball valves, ECO version - Mod. 2953

2/2 in-line, Female-Female BSPP Threads



Σ SW

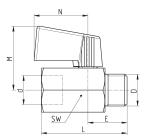
VN39 10₀12

Mod.	d	DN	E	L	М	Ν	SW
2953 1/4	G1/4	8	18	39	27	22	20
2953 3/8	G3/8	8	21	42	27	22	20
2953 1/2	G1/2	10	23	47	29	22	24

Mini ball valves, ECO version - Mod. 2954



2/2 in-line, Male BSPP-Female BSPP Threads



VN39 10

Mod.	d	D	DN	E	L	М	N	SW
2954 1/4-1/4	G1/4	G1/4	8	18	39	27	22	20
2954 3/8-3/8	G3/8	G3/8	8	19	40	27	22	20
2954 1/2-1/2	G1/2	G1/2	10	21	45	29	22	24



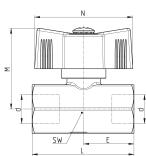
Mini ball valves, Butterfly version - Mod. 2963

10₀12



2/2 in-line, Female-Female BSPP Threads

VN39



E -

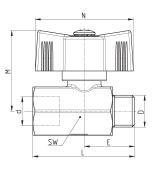


Mod.	d	DN	E	L	М	Ν	SW
2963 1/4	G1/4	8	21	41.5	33	40	20
2963 3/8	G3/8	8	21	41.5	33	40	20
2963 1/2	G1/2	10	24	47	34.5	40	24

Mini ball valves, Butterfly version - Mod. 2964



2/2 in-line, Male BSPP-Female BSPP Threads



10 12 2 VN39

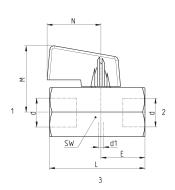
Mod.	d	D	DN	E	L	М	Ν	SW
2964 1/4-1/4	G1/4	G1/4	8	20.5	41.5	33	40	20
2964 3/8-3/8	G3/8	G3/8	8	20.5	41.5	33	40	20
2964 1/2-1/2	G1/2	G1/2	10	21	45	34.5	40	24

Products designed for industrial applications. General terms and conditions for sale are available on www.camozzi.com. SERIES 29 MINI BALL VALVES

Mini ball valves, 3/2-way version - Mod. 2973



3/2 in-line, Female BSPP-Female BSPP Threads



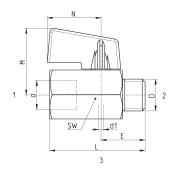
VN40 10 12 2

Mod.	d	DN	dl	E	L	Μ	Ν	SW
2973 1/4	G1/4	8	2	18	39	27	22	20
2973 3/8	G3/8	8	2	21	42	27	22	20
2973 1/2	G1/2	10	2	23	47	29	22	24

Mini ball valves, 3/2-way version - Mod. 2974



3/2 in-line, Male BSPP-Female BSPP Threads



10 12

VN40

Mod.	d	D	DN	dl	E	L	М	Ν	SW
2974 1/4-1/4	G1/4	G1/4	8	2	18	39	27	22	20
2974 3/8-3/8	G3/8	G3/8	8	2	19	40	27	22	20
2974 1/2-1/2	G1/2	G1/2	10	2	21	45	29	22	24

6.30.06

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SILENCERS

Silencers

Series: 2901 - 2903 - 2921 - 2931 - 2938 - 2939 - 2905 Ports: M5, G1/8, G1/4, G3/8, G1/2, G3/4, G1



The silencers are indispensable elements for eliminating or reducing the characteristic noise of compressed air during discharge operations. They should always be placed on the outlets of 3/2, 5/2 or 5/3-way valves.

When carrying out maintenance, the silencers should be degreased using white spirit or paraffin and compressed air blown through them in the opposite direction to operation.

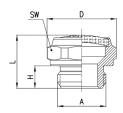
Flow rate: determined with inlet supply 6 bar and output in atmosphere. Noise level: determined through a test which is carried out using a phonometer. Placing the phonometer one meter away from the application at the same height for a period of ten seconds gives an average reading of the noise generated.

GENERAL DATA

Construction	body with male and female thread
Materials used for body	2901 - 2903: brass 2921 - 2931: coppering steel 2938 - 2939: polyethylene
Materials used for silencing	2901 - 2903: stainless steel 2921 - 2931: bronze (sintered) 2938 - 2939: polyethylene
Ports	M5 - G1/8 - G1/4 - G3/8 - G1/2 - G3/4 - G1

Silencers Series 2901





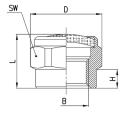
Automation

DIMENSIONS										
Mod.		А	D	Н	L	SW	Max operating pressure (bar)	Flow rate (Nl/min)	Noise db (A)	
2901 M5	*	M5	9	4	8.5	8	10	150	66	* sintered bronze silencer element
29011/8		G1/8	15.3	5	12	14	10	700	76	
29011/4-17		G1/4	18.5	6	14	17	10	1000	78	
29011/4-22		G1/4	23.5	6	15	22	10	1600	80	
2901 3/8		G3/8	23.5	7	16	22	10	1500	76	
2901 1/2		G1/2	29.5	8	17.5	27	10	3400	86	
2901 3/4		G3/4	34	9	20	32	6	4100	87	
29011		G1	43	11	24.5	40	6	7600	88	



Silencers Series 2903





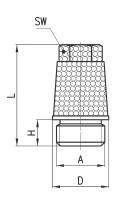
SIL1 --□--->

DIMENSION	VS							
Mod.	В	D	Н	L	SW	Max. Oper. Pressure	Flow rate Nl/Min	Noise db (A)
2903 1/8	C1/0	15.7	,	1.1	14	10	700	74

Silencers Series 2921



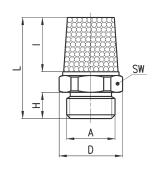
DIMENSION	DIMENSIONS												
Mod.	А	D	Н	L	SW	Max. Oper. Pressure	Flow rate Nl/Min	Noise db (A)					
2921 1/8	G1/8	12	4,5	21,5	8	10	1730	81					
2921 1/4	G1/4	15	6	28	10	10	3300	85					
2921 3/8	G3/8	19	8	37	13	10	4250	79					
2921 1/2	G1/2	23	9	43,5	15	10	6800	87					
2921 3/4	G3/4	30	10	56	19	10	9800	84					
29211	Gl	37	12	67	24	10	10900	86					



SIL1 --□--->

Silencers Series 2931



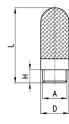


DIMENSION	VS								
Mod.	А	D	н	1	L	SW	Max. Oper. Pressure	Flow rate Nl/Min	Noise db (A)
2931 M5	M5	7,7	4	8	16,5	7	10	450	69
2931 M7	M7	9	5	8,5	20	8	10	1130	76
2931 1/8	G1/8	13	4,5	13	21	12	10	1927	88
2931 1/4	G1/4	16,2	6	16,5	27	15	10	3200	86
2931 3/8	G3/8	20	7	23	35,5	19	10	4560	81
2931 1/2	G1/2	24,5	8	28	42	23	10	6800	87
2931 3/4	G3/4	32	9	37	54	30	10	9600	84
2931 1	G1	38,5	11	47	67	36	10	10800	86

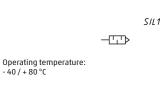
SIL1

Silencers Series 2938





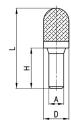
DIMENSIONS							
Mod.	А	D	Н	L	Max. Oper. Pressure	Flow rate Nl/Min	Noise db (A)
2938 M5	M5	6,5	4,1	23	10	546	67
2938 1/8	G1/8	12,5	5,7	34	10	1441	75
2938 1/4	G1/4	15,5	7	42,5	10	2752	79
2938 3/8	G3/8	18,5	11,5	67,5	10	4735	73
2938 1/2	G1/2	23,5	11	77	10	8534	86



Silencers Series 2939



Operating temperature: - 40 / + 80 °C



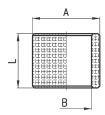
DIMENSIONS								
Mod.	_ø А	D	Н	L	Max. Oper. Pressure	Flow rate Nl/Min	Noise db (A)	
2939 4	4	7	16	32	10	335	80	
29396	6	12,5	20,5	45	10	632	79	*
29398	8	13,5	21,5	43,5	10	1229	89	*
2939 10	10	15,5	26,5	57,5	10	2650	87	*

SIL1 --□--->

Silencing bush Series 2905



For flow control valves Mod. SCO and MCO (see the dedicated section)



DIMENSIONS			
Mod.	А	В	L
2905 1/8	14	10	14.5
2905 1/4	18	13.5	14.5
2905 3/8	21	16.8	14.5

Contacts

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