#### New models

# Direct acting solenoid valves Series A

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

K

Automatio





- » 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 inter 6 = 360° rota 7 = 360° rota	table interface body erface body (24x2 l body b body with quick of face body table interface body table interface body anifold anifold anifold anifold anifold anifold anifold anifold anifold anifold anifold manifold manifold manifold manifold ananifold ananifold ananifold ananifold	4 mm) exhaust ody (16x16 mm) ody (21 mm)							
3	NUMBER OF I 2 = 2 ways 3 = 3 ways	PORTS								
1	FUNCTION 1 = NC - norn 2 = NO - norr 3 = NO IN-LIN		n							
0	A = O-Rings r	with manual over otatable interface ïxed interface ngs Ø4 mm								
C	ORIFICE DIAM C = Ø 1.2 - 1. D = Ø 2.0 mm E = Ø 2.5 mm	4 - 1.5 mm n								
2			hed brass - alumin	um						
U7	U7 = PET / 22 G7 = PA66 / 2 G9 = PA66 / 2 A8 = PPS / 30	22 mm 22 mm - solenoid 1 9 mm	TERIAL / SIZE vailable in standard for bistable function ds ATEX version for 2	n (not available f						
7		WER CONSUMPTIO g page for U7 / G7	N ' solenoids and ded	icated section 2.	35					

\* 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. Mi	with solenoids DC >3 W	Min ÷ max working pressure (bar) allowed with solenoids DC >4 W	with solenoids AC >3,5 VA
unction 2/2 NC	-	-	-
\321-0C2-*	- 0,9 ÷ 8	- 0,9 ÷ 15	- 0,9 ÷ 15
321-102-*	- 0,9 ÷ 8	- 0,9 ÷ 15	- 0,9 ÷ 15
321-102-*	- 0,9 ÷ 4	- 0,9 ÷ 9	- 0,9 ÷ 9
A321-1E2-*	- 0,9 ÷ 1	- 0,9 ÷ 6	- 0,9 ÷ 6
\821-FE3-*	- 0,9 ÷ 1	- 0,9 ÷ 6	- 0,9 ÷ 6
	-	-	-
Sunction 2/2 NO	- 2 ÷ 10	- - 0,9 ÷ 10	0,9 ÷ 10
322-102-*	2÷10 2÷10	- 0,9 ÷ 10	- 0,9 ÷ 10
	-	-	-
Function 3/2 NC	-	-	-
131-AC2-*	-	-	-
231-BC2-*	-	-	-
331-0C2-*	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
331-1C2-*	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
431-102-*	2÷10	2÷10	2÷10
531-BC2-*	2÷10	- 0,9 ÷ 10	- 0,9 ÷ 10
631-AC2-*	2÷10	- 0,9 ÷ 10	- 0,9 ÷ 10
1731-AC2-*	2÷10	- 0,9 ÷ 10	- 0,9 ÷ 10
1831-FE3-*	-	- 0,9 ÷ 4	- 0,9 ÷ 4
A31-0C2-*	2÷10	- 0,9 ÷ 10	- 0,9 ÷ 10
A31-0C3-*	2÷8	- 0,9 ÷ 8	- 0,9 ÷ 8
A31-CC2-*	2÷10	- 0,9 ÷ 10	- 0,9 ÷ 10
A31-CC3-*	2 ÷ 8 -	- 0,9 ÷ 8	- 0,9 ÷ 8
unction 3/2 NO	-	-	-
\332-0C2-*	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
332-1C2-*	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
A32-0C2-*	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
A32-0C3-*	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
A32-CC2-*	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
NA32-CC3-*	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
unction 3/2 NO	-	-	-
A333-0C2-*	- 0,9 ÷ 6	-	- 0,9 ÷ 9
A333-1C2-*	- 0,9 ÷ 6	-	- 0,9 ÷ 9
NA33-0C2-*	- 0,9 ÷ 6	-	- 0,9 ÷ 9
\A33-0C3-*	- 0,9 ÷ 6	-	- 0,9 ÷ 8
NA33-CC2-*	- 0,9 ÷ 6	-	- 0,9 ÷ 9
NA33-CC3-*	- 0,9 ÷ 6	-	- 0,9 ÷ 8
olenoids for functions 2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO	-	-	
2 V DC - 3.1 W	- G7H - U7H - U7HEX		-
4 V DC - 3.1 W	G77 - U77 - U77EX	-	-
8 V DC - 3.1 W	G79 - U79 - U79EX	-	-
10 V DC - 3.2 W	G710 - U710 - U710EX	-	-
V DC - 5.1 W	-	U71 - U71EX	-
2 V DC - 5 W	-	G72 - U72 - U72EX	-
4 V DC - 5 W	-	G73 - U73 - U73EX	-
8 V DC - 5.3 W	-	U74 - U74EX	-
2 V DC - 4.8 W	-	G7K - U7K - U7KEX	-
10 V DC - 4.2 W	-	G76 - U76 - U76EX	-
8 V 50/60 Hz - 3.8 VA	-	-	G77 - U77 - U77EX
10 V 50/60 Hz - 3.8 VA	-	-	G7K - U7K - U7KEX
25 V 50/60 Hz - 5.5 VA	-	-	G7K - U7K - U7KEX
30 V 50/60 Hz - 3.5 VA	-	-	G7J - U7J - U7JEX
40 V 50/60 Hz - 4 VA	-	-	G7J - U7J - U7JEX
olenoids for 3/2 NO IN LINE functions	-	-	
2 VDC - 3.1 W	G7H1 - U7H1	-	-
24 V DC - 3.1 W	U771 - U771EX	-	-
72 V DC - 5.6 W	-	G7K1 - U7K1 - U7K1EX	-
8 V 50/60 Hz - 3.8 VA	-	-	G771 - U771 - U771EX
110 V 50/60 Hz - 5.8 VA	-	-	G7K1 - U7K1 - U7K1EX

Nota: for AC voltages, the indicated pressure ranges refer to 50 Hz frequency. Please contact our technical dept. for use with with 60Hz frequency.

SERIES A SOLENOID VALVES

M4x5.5

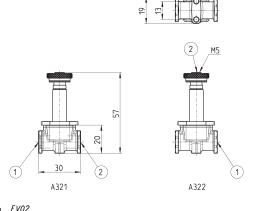
M4x5.5

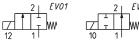
# Series A solenoid valve - 2/2-way - Mod. A32

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.





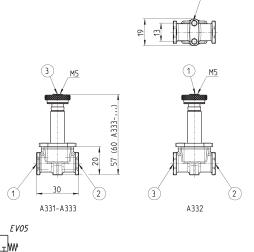
Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
A321-0C2-*	2/2 NC	M5	1.5	0.77	nickel plated brass	по	EV01
A321-1C2-*	2/2 NC	G1/8	1.5	0.85	nickel plated brass	по	EV01
A321-1D2-*	2/2 NC	G1/8	2.0	1.55	nickel plated brass	ПО	EV01
A321-1E2-*	2/2 NC	G1/8	2.5	2.00	nickel plated 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	по	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.



2 EV03 T T WW Z T 12 1 3 10

2

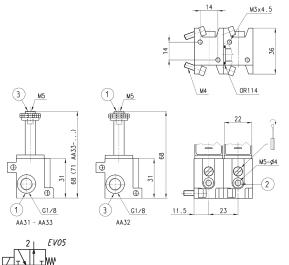
			0.10	1. 44. 1. 5			
Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
A331-0C2-*	3/2 NC	M5	1.5	0.77	nickel plated brass	по	EV03
A331-1C2-*	3/2 NC	G1/8	1.5	0.93	nickel plated brass	по	EV03
A331-1D2-*	3/2 NC	G1/8	2.0	1.45	nickel plated brass	по	EV03
A331-1E2-*	3/2 NC	G1/8	2.5	1.90	nickel plated brass	по	EV03
A332-0C2-*	3/2 NO	M5	1.5	0.85	nickel plated brass	ПО	EV05
A332-1C2-*	3/2 NO	M5-G1/8	1.5	0.85	nickel plated brass	ПО	EV05
A333-0C2-*	3/2 NO IN-LINE	M5	1.5	0.93	nickel plated brass	ПО	EV05

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

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



\* choose the most suitable solenoid.





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

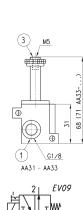
3/2-way NC and NO IN-LINE versions with G1/8 common inlet port located on the valve body. 3/2-way NO versions with M5 single inlets located on the upper side of the coil.

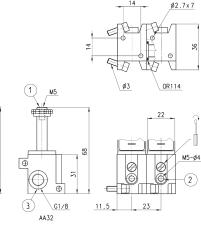
# Series A solenoid valve - 3/2-way - Mod. AA3 - modular technopolymer body



\* 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.





	21	E V08
Ĥ		
12	1	13

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

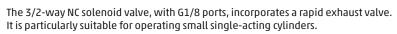
valves with very low operating pressures.

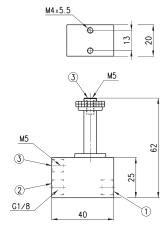
EV03

w



\* choose the most suitable solenoid.





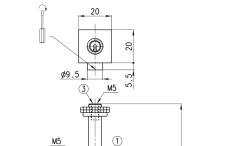
Mod.	Function	Ports	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
A431-1C2-*	3/2 NC	G1/8	1.5	0.77	aluminium	по	EV07

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

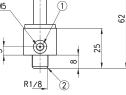


M5 thread inlet R1/8 thread outlet The valve can be screwed directly onto the component to be operated.

\* choose the most suitable solenoid.



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

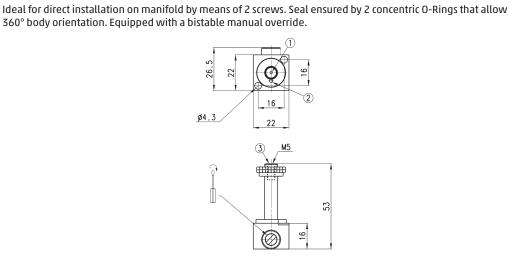
E V 08

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

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



\* choose the most suitable solenoid.



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

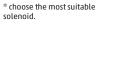
# Series A solenoid valve - 3/2-way NC - Mod. A53 - fixed interface

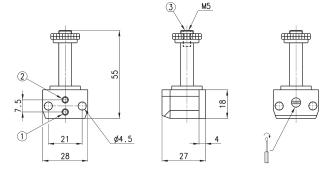
E V 08



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.





Mod.	Function Interface Orifice		Ø (mm) kv (l/min)Body	1	materialManual		override Symbol
A531-BC2-	* 3/2 NC OR fixed	1.2	0.62	PA6		bistable	EV08

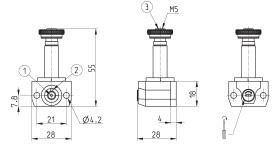
# Series A solenoid valve - 3/2-way NC - Mod. A73 - rotatable interface



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.





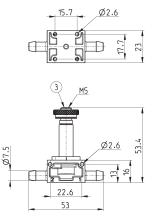
Mod.	Function	Interface	Orifice Ø (mm)	kv (l/min)	Body material	Manual override	Symbol
A731-AC2-*	3/2 NC	OR rotatable	1.2	0.62	PA6	bistable	EV08

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

# 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.

1)		32
	¢4.5	
3		53

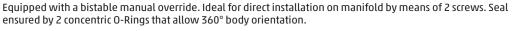
	2   EV08	
Ħ	TIT	
12	1  3	

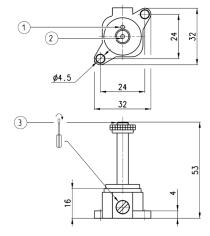
Mod.	Function Interface Orifice		Ø (mm) kv (l/min)Body	materialManual		override Symbol
A231-BC2-*	3/2 NC OR fixed	1.5	1.1	nichel plated brass	bistable	EV08

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



\* choose the most suitable solenoid.







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