

Directly operated solenoid valves Series A

2/2-way, 3/2-way NC and NO. Monostable - bistable (with magnetic memory) Ports M5 and G1/8 - cartridge ø4



The Series A solenoid valves are of the directly operated type and can be used with dry or lubricated air.

They are available in the 2/2 and 3/2-way versions with normally closed (NC) or normally open (NO) operation. As shown in the following tables, they are supplied in different versions according to the type of body, threaded ports and orifice. They can thus satisfy various operating and installation requirements.

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.

GENERAL DATA

Valve functions	2/2 - 3/2, NC - NO
Construction	poppet type
Materials	body = nickel-plated brass or technopolymer seals = HNBR upper poppet, FKM lower FKM others = stainless steel
Ports	M5 - G1/8, cartridge ø 4
Installation	in any position
Temperature	0 ÷ 60°C (with dry air -20°C)
Operating pressure	see table
Nominal flowrate	Qn (see table)
Nominal diameter	ø (see table)
Fluid	filtered air, without lubrication, inert gas. If lubricated air is used, it is recommended to use ISOVG3 oil. The lubrication should never be interrupted.

СО	DING EXAMPLE								
A	3 3	1	-	0 C	2	-	U	7	7
٨	SERIES								
<u>A</u> 3	BODY DESIGN: 1 = base ($24x24$ mm) inter 2 = base ($24x24$ mm) fixed 3 = threaded body 4 = rapid exhaust body 5 = base with ISO standard 6 = ($16x16$ mm) interface of A = single manifold B = 2-part manifold D = 4-part manifold C = 3-part manifold F = 6-part manifold G = 7-part manifold H = 8-part manifold K = 9-part manifold M = 11-part manifold P = 13-part manifold R = 14-part manifold R = 14-part manifold	d interface l interface, fixed boo	dy in technopolymer						
3	S = 15-part manifold NUMBER OF PORTS: 2 = 2 way 3 = 3 way								
1	FUNCTION: 1 = NC 2 = NO 3 = NO in line								
0	PORTS: 1 0 M5 1 G1/8 3 M5 4 M5 4 M5 A swivel O-ring interface C cartridge Ø 4		3 M5 M5 M5 M5 with ma M5 M5	inual override					
С	NOMINAL DIAMETER: C = Ø 1,5 D = Ø 2 E = Ø 2,5								
2	BODY MATERIAL: 2 = nickel-plated brass 3 = technopolymer								
U	ENCAPSULATING MATER G = PA U = PET A = PPS H = PA6VO	(IAL:							
7	SOLENOID DIMENSIONS: 7 = 22x22 8 = 30x30 9 = 22x58								
7	SOLENOID VOLTAGE: See the solenoids section of	on page 2/2.35.01							



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

Mod.	Solenoids 3W working pressure (bar)	Solenoids 4-5 W working pressure (bar)	Solenoids 3,5 VA working pressure (bar)
	allowed pressure with solenoids DC - 3 W	allowed pressure with solenoids DC - 4-5 W	allowed pressure with solenoids AC - 3,5 VA
/alve function 2/2 NC			
A321-0C2	- 0,9 ÷ 8	- 0,9 ÷ 15	- 0,9 ÷ 15
A321-1C2	- 0,9 ÷ 8	- 0,9 ÷ 15	- 0,9 ÷ 15
A321-1D2	- 0,9 ÷ 4	- 0,9 ÷ 9	- 0,9 ÷ 9
A321-1E2	- 0,9 ÷ 1	- 0,9 ÷ 6	- 0,9 ÷ 6
valve function 2/2 NO			
A322-0C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A322-1C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
Valve function 3/2 NC			
A331-0C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
\331-1C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A331-3C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A331-4C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
431-1C2	2 ÷ 10	2 ÷ 10	2 ÷ 10
A531-BC2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A631-AC2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
AA31-0C2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
AA31-0C3	2 ÷ 8	- 0,9 ÷ 8	- 0,9 ÷ 8
AA31-CC2	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
AA31-CC3	2 ÷ 8	- 0,9 ÷ 8	- 0,9 ÷ 8
Valve function 3/2 NO			
A332-0C2	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
A332-1C2	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
\333-0C2	- 0,9 ÷ 7	-	- 0,9 ÷ 10
A333-1C2	- 0,9 ÷ 7	-	- 0,9 ÷ 10
AA33-0C2	- 0,9 ÷ 7	-	- 0,9 ÷ 10
AA33-0C3	- 0,9 ÷ 7	-	- 0,9 ÷ 8
A33-CC3	- 0,9 ÷ 7	-	- 0,9 ÷ 8

Conn. 3

M5

M5

M5

G1/8

M5

M5

Function

2/2 NC

2/2 NC

2/2 NC

2/2 NC

2/2 NO

2/2 NO

3/2 NC

3/2 NC

3/2 NO

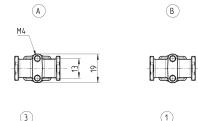
3/2 NO

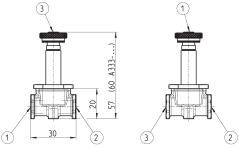
3/2NO in line

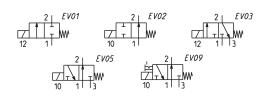
3/2NO in line

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

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







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

solenoid

* choose the most suitable



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

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

Orifice Ø mm

1,5

1,5

2

2.5

1,8

1.8

1,5

1.5

1,5

1,5

1,5

1,5

Qn (NI/min)

50

55

100

130

70

80

50

60

55

50

60

60

Symbol

EV01

EV01

EV01

EV01

EV02

EV02

EV03

EV03

EV09

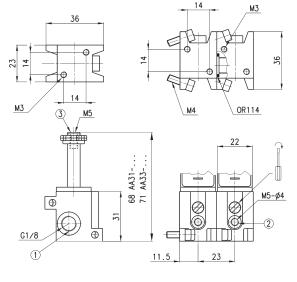
EV09

EV05

EV05

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

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



Mod.	Inlet / outlet	Function	Orifice Ø mm	Manual override bistable	Qn (NI/min)	Symbol
AA31-0C2-*	G1/8 M5	3/2 NC	1,5	Yes	55	EV08
AA31-CC2-*	G1/8 04	3/2 NC	1,5	Yes	55	EV08
AA31-0C3-*	G1/8 M5	3/2 NC	1,5	Yes	55	EV08
AA33-0C2-*	G1/8 M5	3/2 NO in line	1,5	No	55	EV05
AA33-CC2-*	G1/8 04	3/2 NO in line	1,5	No	55	EV05
AA33-0C3-*	G1/8 M5	3/2 NO in line	1,5	No	65	EV05
AA31-CC3-*	G1/8 04	3/2 NC	1,5	Yes	55	EV08
AA33-CC3-*	G1/8 04	3/2 NO in line	1,5	No	65	EV05



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



* choose the most suitable solenoid.

Mod.

A321-0C2-*

A321-1C2-*

A321-1D2-*

A321-1E2-*

A322-0C2-1

A322-1C2-*

A331-0C2-*

A331-1C2-*

A332-0C2-*

A332-1C2-*

A333-0C2-*

A333-1C2-*

Conn. 1

M5

G1/8

G1/8

G1/8

M5

G1/8

M5

G1/8

M5

M5

M5

G1/8

Conn. 2

M5

G1/8

G1/8

G1/8

M5

M5

M5

G1/8

M5

G1/8

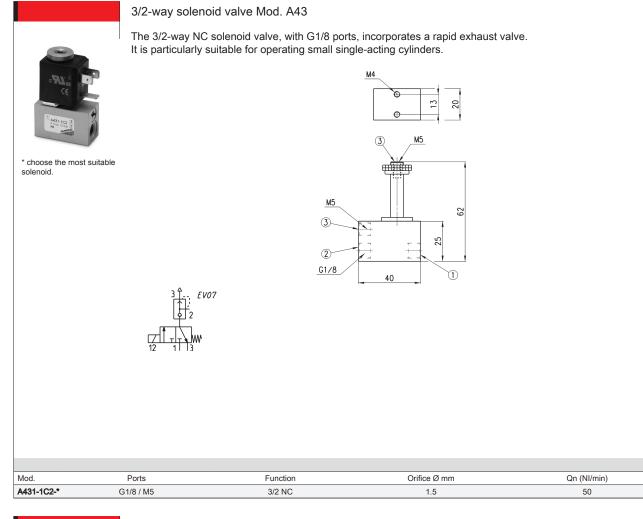
M5

G1/8



2

CONTROL



3/2-way solenoid valve Mod. A33

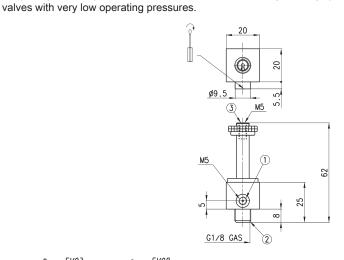
EVO3

W



The body has an outlet with a G1/8 male thread which can be screwed directly onto the component to be operated. The inlet port is M5 threaded.

* choose the most suitable solenoid.



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

Mod.	Inlet / outlet	Function	Orifice Ø (mm)	Man. override bistable	Qn (NI/min)	Symbol
A331-3C2-*	M5/ G1/8	3/2 NC	1.5	no	55	EV03
A331-4C2-*	M5/ G1/8	3/2 NC	1.5	yes	55	EV08

EV08

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

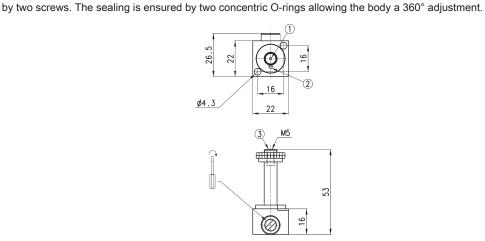
2

CONTROL

3/2-way solenoid valve Mod. A63



* choose the most suitable solenoid.



Equipped with a manual override for a steady operation, it is suitable to be mounted directly onto machine parts

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

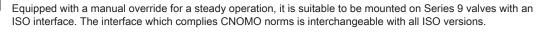
3/2-way solenoid valve Mod. A53

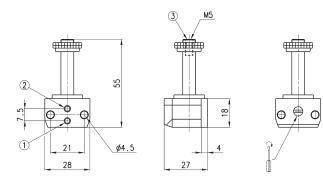
EV08



The body only is in technopolymer.

* choose the most suitable solenoid.





		8		
Qn (Nl/min)	Orifice Ø (mm)	Function	Interface	/lod.