

# 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)



- Ports: M5, G1/8, R1/8, cartridge Ø4
- Bistable version also available (with magnetic memory)

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

TECHNICAL FEATURES	
Function	2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO
Operation	Direct acting poppet type
Pneumatic connections	M5, G1/8, R1/8 threads - Ø4 fittings - CNOMO and manifold interface- Ø6 barb fittings
Orifice diameter	1,2...2,5 mm
Flow coefficient kv (l/min)	0,62...2,0
Operating pressure	-0,9...15 bar
Operating temperature	0 ÷ 60 °C (-20 °C with dry air)
Fluid	Filtered air, class [5:4:4] according to ISO 8573-1:2010 (max oil viscosity 32 cSt), inert gas
Response time	ON <15 ms - OFF <25 ms
Manual override	See tables
Installation	In any position
MATERIALS IN CONTACT WITH THE MEDIUM	
Body	Nickel-plated brass - burnished brass - PA6 - PBT
Seals	HNBR, FKM
Internal parts	Stainless steel
ELECTRICAL FEATURES	
Voltage	12...110 V DC - 24...380 V AC 50/60 Hz
Voltage tolerance	±10% (DC) / -15% ÷ +10% (AC)
Power Consumption	3...5 W (DC) / 3,5...7 VA (AC)
Duty cycle	ED 100%
Insulation class	F (155°C)
Electrical connection	DIN EN 175 301-803-A - DIN EN 175 301-803-B
Protection class	IP65 with connector

Special versions available on demand

DIRECT ACTING SOLENOID VALVES  
SERIES A - CODING EXAMPLES

Coding Example

A	3	3	1	-	0	C	2	-	U7	7
A	SERIES									
3	BODY DESIGN 1 = 360° Rotatable interface body (24x24 mm) 2 = Fixed interface body (24x24 mm) 3 = Threaded body 4 = Threaded body with quick exhaust 5 = ISO interface body 6 = 360° Rotatable interface body (16x16 mm) 7 = 360° Rotatable interface body (21 mm) 8 = Barb fittings connections body A = Single manifold B = 2-Part manifold C = 3-Part manifold D = 4-Part manifold E = 5-Part manifold F = 6-Part manifold G = 7-Part manifold H = 8-Part manifold K = 9-Part manifold L = 10-Part manifold M = 11-Part manifold N = 12-Part manifold P = 13-Part manifold R = 14-Part manifold S = 15-Part manifold									
3	NUMBER OF PORTS 2 = 2 ways 3 = 3 ways									
1	FUNCTION 1 = NC - Normally Closed 2 = NO - Normally Open 3 = NO IN-LINE® - Normally Open									
0	PORTS 0 = M5 1 = G1/8 3 = M5-R1/8 4 = M5-R1/8 with manual override A = O-Rings rotatable interface B = O-Rings fixed interface C = G1/8-fittings Ø4 mm F = Ø6 mm barb fittings									
C	ORIFICE DIAMETER C = Ø1,2 - 1,4 - 1,5 mm D = Ø2,0 mm E = Ø2,5 mm									
2	BODY MATERIAL 2 = Nickel-plated brass - burnished brass - aluminium 3 = PA6 - PBT technopolimers									
U7	SOLENOIDS - OVERMOLDING MATERIAL / SIZE U7 = PET / 22 mm - solenoids available in standard version and in ATEX version for Zones 2-22 G7 = PA66 / 22 mm G9 = PA66 / 22 mm - solenoid for bistable function (not available for 2/2 NO function) A8 = PPS / 30 mm H8 = PA6 V0 / 30 mm - solenoids ATEX version for Zones 1-21									
7	VOLTAGE - POWER CONSUMPTION									

VALVES AND SOLENOID VALVES

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## 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.

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

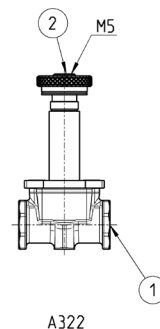
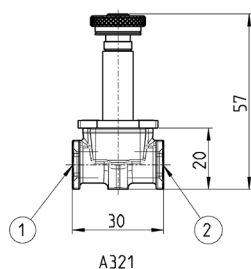
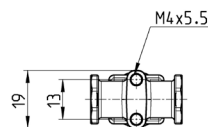
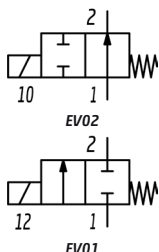
Mod.	Min + max working pressure (bar) allowed with solenoids DC > 3 W	Min + max working pressure (bar) allowed with solenoids DC > 4 W	Min + max working pressure (bar) allowed with solenoids AC > 3,5 VA
<b>Function 2/2 NC</b>	-	-	-
A321-0C2- <sup>3/2</sup>	- 0,9 ÷ 8	- 0,9 ÷ 15	- 0,9 ÷ 15
A321-1C2- <sup>3/2</sup>	- 0,9 ÷ 8	- 0,9 ÷ 15	- 0,9 ÷ 15
A321-1D2- <sup>3/2</sup>	- 0,9 ÷ 4	0,9 ÷ 9	- 0,9 ÷ 9
A321-1E2- <sup>3/2</sup>	- 0,9 ÷ 1	- 0,9 ÷ 6	- 0,9 ÷ 6
A821-FE3- <sup>3/2</sup>	- 0,9 ÷ 1	- 0,9 ÷ 6	- 0,9 ÷ 6
-	-	-	-
<b>Function 2/2 NO</b>	-	-	-
A322-0C2- <sup>3/2</sup>	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A322-1C2- <sup>3/2</sup>	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
-	-	-	-
<b>Function 3/2 NC</b>	-	-	-
A131-AC2- <sup>3/2</sup>	-	-	-
A231-BC2- <sup>3/2</sup>	-	-	-
A331-0C2- <sup>3/2</sup>	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A331-1C2- <sup>3/2</sup>	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A331-1D2- <sup>3/2</sup>	-	- 0,9 ÷ 6	- 0,9 ÷ 6
A331-1E2- <sup>3/2</sup>	-	- 0,9 ÷ 4	- 0,9 ÷ 4
A331-3C2- <sup>3/2</sup>	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A331-4C2- <sup>3/2</sup>	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A431-1C2- <sup>3/2</sup>	2 ÷ 10	2 ÷ 10	2 ÷ 10
A531-BC2- <sup>3/2</sup>	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A631-AC2- <sup>3/2</sup>	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A731-AC2- <sup>3/2</sup>	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
A831-FE3- <sup>3/2</sup>	-	- 0,9 ÷ 4	- 0,9 ÷ 4
AA31-0C2- <sup>3/2</sup>	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
AA31-0C3- <sup>3/2</sup>	2 ÷ 8	- 0,9 ÷ 8	- 0,9 ÷ 8
AA31-CC2- <sup>3/2</sup>	2 ÷ 10	- 0,9 ÷ 10	- 0,9 ÷ 10
AA31-CC3- <sup>3/2</sup>	2 ÷ 8	- 0,9 ÷ 8	- 0,9 ÷ 8
-	-	-	-
<b>Function 3/2 NO</b>	-	-	-
A332-0C2- <sup>3/2</sup>	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
A332-1C2- <sup>3/2</sup>	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
AA32-0C2- <sup>3/2</sup>	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
AA32-0C3- <sup>3/2</sup>	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
AA32-CC2- <sup>3/2</sup>	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
AA32-CC3- <sup>3/2</sup>	- 0,9 ÷ 7	- 0,9 ÷ 7	- 0,9 ÷ 7
-	-	-	-
<b>Function 3/2 NO</b>	-	-	-
A333-0C2- <sup>3/2</sup>	- 0,9 ÷ 6	-	- 0,9 ÷ 9
A333-1C2- <sup>3/2</sup>	- 0,9 ÷ 6	-	- 0,9 ÷ 9
AA33-0C2- <sup>3/2</sup>	- 0,9 ÷ 6	-	- 0,9 ÷ 9
AA33-0C3- <sup>3/2</sup>	- 0,9 ÷ 6	-	- 0,9 ÷ 8
AA33-CC2- <sup>3/2</sup>	- 0,9 ÷ 6	-	- 0,9 ÷ 9
AA33-CC3- <sup>3/2</sup>	- 0,9 ÷ 6	-	- 0,9 ÷ 8
-	-	-	-
<b>Solenoids for functions 2/2 NC - 2/2 NO - 3/2 NC - 3/2 NO</b>	-	-	-
12 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	-	-
110 V DC - 3,2 W	G710 - U710 - U710EX	-	-
6 V DC - 5,1 W	-	U71 - U71EX	-
12 V DC - 5 W	-	G72 - U72 - U72EX	-
24 V DC - 5 W	-	G73 - U73 - U73EX	-
48 V DC - 5,3 W	-	U74 - U74EX	-
72 V DC - 4,8 W	-	G7K - U7K - U7KEX	-
110 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
125 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
-	-	-	-
<b>Solenoids for 3/2 NO IN LINE functions</b>	-	-	-
12 VDC - 3,1 W	G7H1 - U7H1	-	-
12 VDC - 3,1 W	U771 - U771EX	-	-
72 V DC - 5,6 W	-	G7K1 - U7K1 - U7K1EX	-
48 V 50/60 Hz - 3,8 VA	-	-	G771 - U771 - U771EX
110 V 50/60 Hz - 5,8 VA	-	-	G7K1 - U7K1 - U7K1EX
125 V 50/60 Hz - 8,3 VA	-	-	G7K1 - U7K1 - U7K1EX

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

**DIRECT ACTING SOLENOID VALVES**  
**SERIES A - DIMENSIONS**

**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.

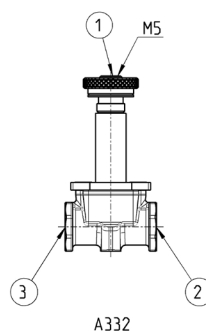
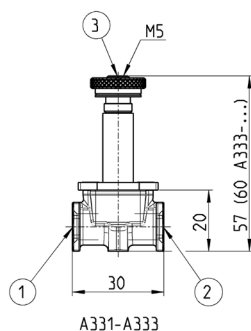
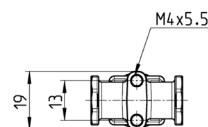
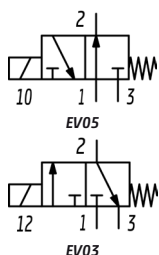


Mod.	Function	Ports	Orifice Ø (mm)	Kv (l/min)	Body material	Manual override	Symbol
A321-0C2-*	2/2 NC	M5	1,5	0,77	Nickel plated brass	No	EV01
A321-1C2-*	2/2 NC	G1/8	1,5	0,85	Nickel plated brass	No	EV01
A321-1D2-*	2/2 NC	G1/8	2,0	1,55	Nickel plated brass	No	EV01
A321-1E2-*	2/2 NC	G1/8	2,5	2,00	Nickel plated brass	No	EV01
A322-0C2-*	2/2 NO	M5	1,8	1,08	Nickel plated brass	No	EV02
A322-1C2-*	2/2 NO	G1/8	1,8	1,24	Nickel plated brass	No	EV02

\* Choose the most suitable solenoid

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

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.

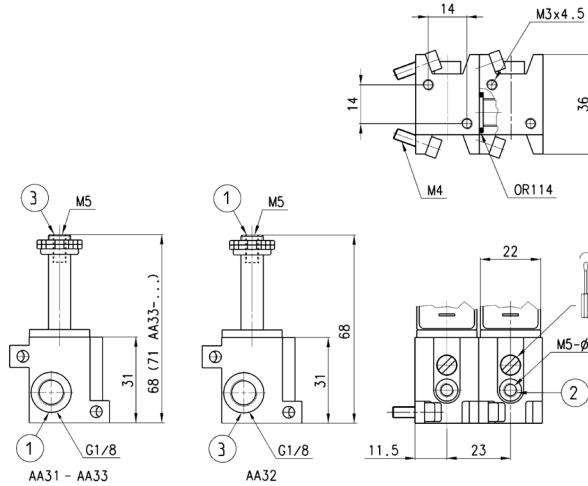
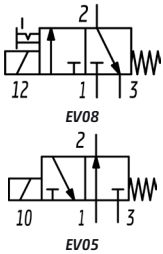


Mod.	Function	Ports	Orifice Ø (mm)	Kv (l/min)	Body material	Manual override	Symbol
A331-0C2-*	3/2 NC	M5	1,5	0,77	Nickel plated brass	No	EV03
A331-1C2-*	3/2 NC	G1/8	1,5	0,93	Nickel plated brass	No	EV03
A331-1D2-*	3/2 NC	G1/8	2,0	1,45	Nickel plated brass	No	EV03
A331-1E2-*	3/2 NC	G1/8	2,5	1,90	Nickel plated brass	No	EV03
A332-0C2-*	3/2 NO	M5	1,5	0,85	Nickel plated brass	No	EV05
A332-1C2-*	3/2 NO	M5-G1/8	1,5	0,85	Nickel plated brass	No	EV05
A333-0C2-*	3/2 NO IN-LINE	M5	1,5	0,93	Nickel plated brass	No	EV05
A333-1C2-*	3/2 NO IN-LINE	G1/8	1,5	0,93	Nickel plated brass	No	EV05

\* Choose the most suitable solenoid

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

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.

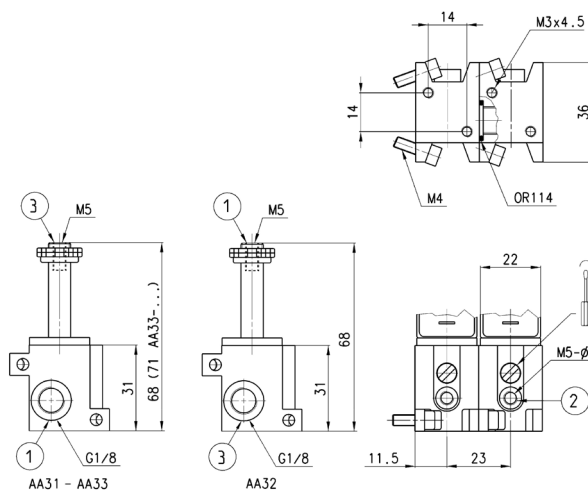
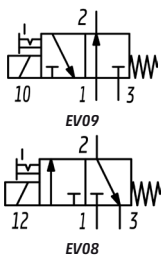


Mod.	Function	Ports	Orifice Ø (mm)	Kv (l/min)	Body material	Manual override	Symbol
AA31-0C2-*	3/2 NC	G1/8-M5	1,5	0,85	Nickel plated brass	Bistable	EV08
AA31-CC2-*	3/2 NC	G1/8-Ø4	1,5	0,85	Nickel plated brass	Bistable	EV08
AA32-0C2-*	3/2 NO	M5-M5	1,4	0,75	Nickel plated brass	Bistable	EV05
AA32-CC2-*	3/2 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	No	EV05
AA33-CC2-*	3/2 NO IN-LINE	G1/8-Ø4	1,5	1,00	Nickel plated brass	No	EV05

\* Choose the most suitable solenoid

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

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.



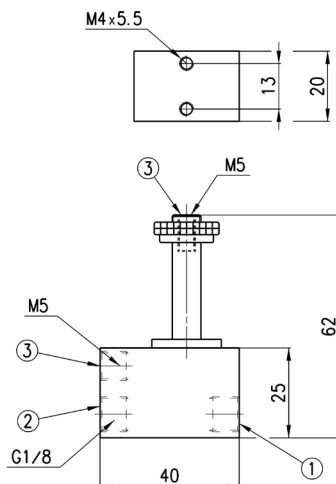
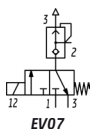
Mod.	Function	Ports	Orifice Ø (mm)	Kv (l/min)	Body material	Manual override	Symbol
AA31-0C3-*	3/2 NC	G1/8-M5	1,5	0,85	PA6	Bistable	EV08
AA31-CC3-*	3/2 NC	G1/8-Ø4	1,5	0,85	PA6	Bistable	EV08
AA32-0C3-*	3/2 NO	M5-M5	1,4	0,75	PA6	Bistable	EV05
AA32-CC3-*	3/2 NO	M5-Ø4	1,4	0,75	PA6	Bistable	EV05
AA33-0C3-*	3/2 NO IN-LINE	G1/8-M5	1,5	1,00	PA6	No	EV05
AA33-CC3-*	3/2 NO IN-LINE	G1/8-Ø4	1,5	1,00	PA6	No	EV05

\* Choose the most suitable solenoid

**DIRECT ACTING SOLENOID VALVES**  
**SERIES A - DIMENSIONS**

**Solenoid valve - 3/2-way NC - Mod. A43 - quick exhaust**

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

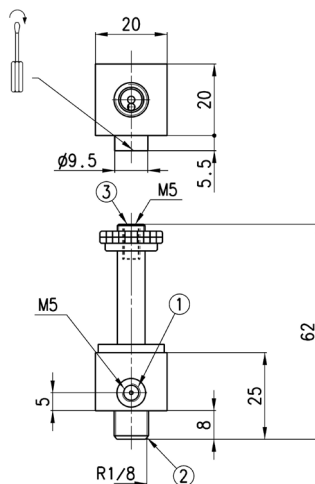
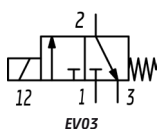


Mod.	Function	Ports	Orifice Ø (mm)	Kv (l/min)	Body material	Manual override	Symbol
A431-1C2-*	3/2 NC	G1/8	1,5	0,77	Aluminium	No	EV07

\* Choose the most suitable solenoid

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

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



Mod.	Function	Ports	Orifice Ø (mm)	Kv (l/min)	Body material	Manual override	Symbol
A331-3C2-*	3/2 NC	M5-R1/8	1,5	0,85	Nickel plated brass	No	EV03
A331-4C2-*	3/2 NC	M5-R1/8	1,5	0,85	Nickel plated brass	Yes	EV08

M5 thread inlet

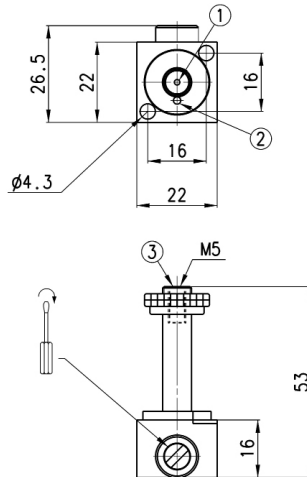
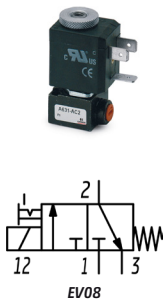
R1/8 thread outlet

The valve can be screwed directly onto the component to be operated

\* Choose the most suitable solenoid

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

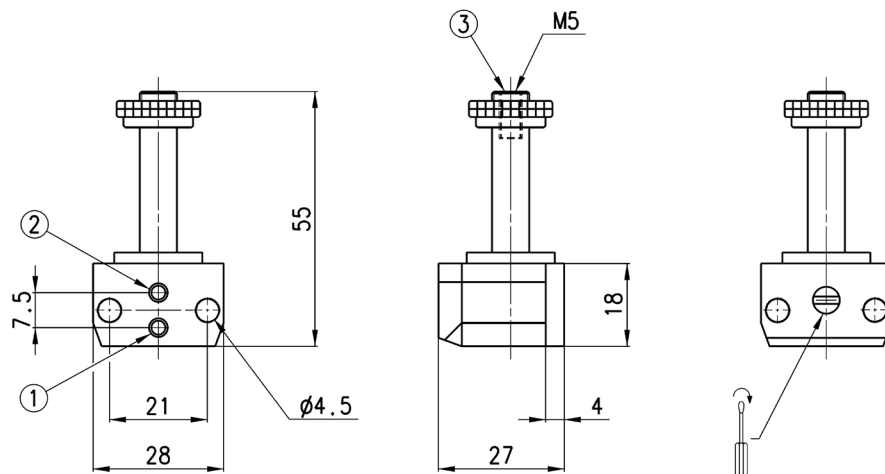
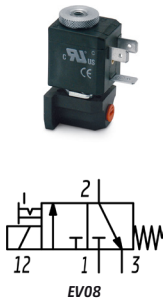


Mod.	Function	Interface	Orifice Ø (mm)	Kv (l/min)	Body material	Manual override	Symbol
A631-AC2-*	3/2 NC	OR rotatable	1,2	0,62	burnished brass	bistable	EV08

\* Choose the most suitable solenoid

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

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 material	Manual override	Symbol
A531-BC2-*	3/2 NC	OR fixed	1,2	0,62	PA6	Bistable	EV08

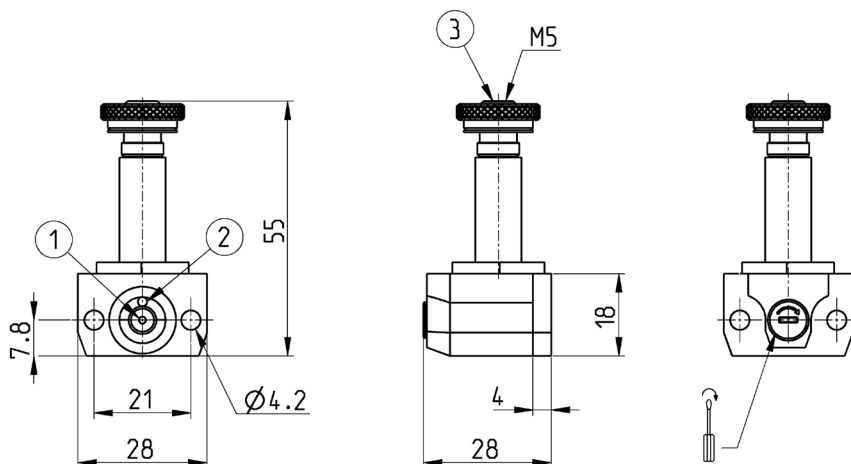
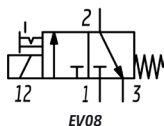
\* Choose the most suitable solenoid

## DIRECT ACTING SOLENOID VALVES

### SERIES A - DIMENSIONS

#### 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. 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.

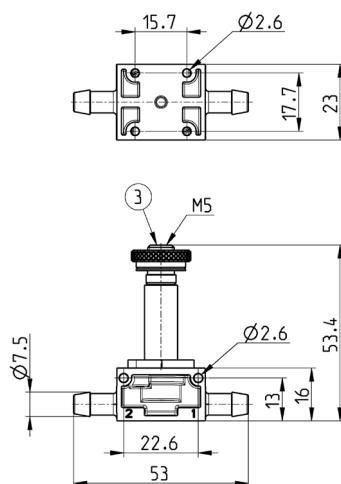
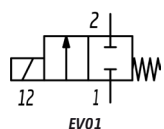


Mod.	Function	Interface	Orifice Ø (mm)	Kv (l/min)	Body material	Manual override	Symbol
A731-AC2-*	3/2 NC	OR rotatable	1,2	0,62	PA6	bistable	EV08

\* Choose the most suitable solenoid

#### Solenoid valve - 2/2 e 3/2-way NC - Mod. A82 e A83 - barb fittings

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



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	No	EV01
A831-FE3-*	3/2 NC **	Barb fittings Ø6	2,5	1,8	PBT	No	EV03

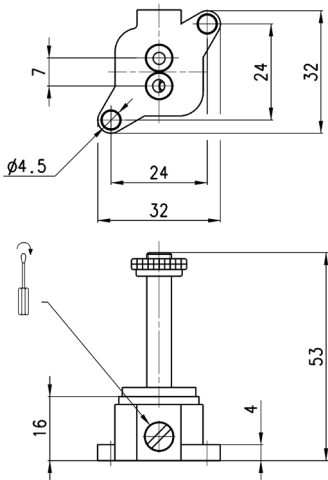
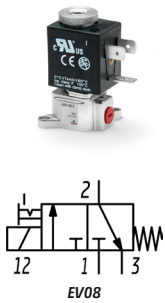
\* Choose the most suitable solenoid

\*\* The performances shown in the table refer to the use with inlet from "2" and outlet from "1"



**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.

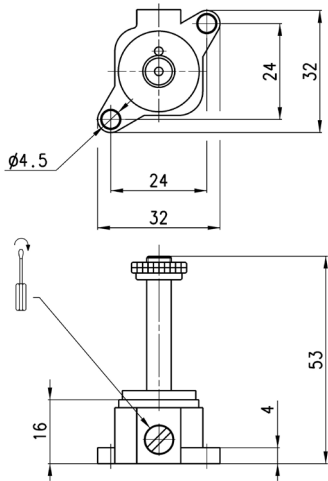
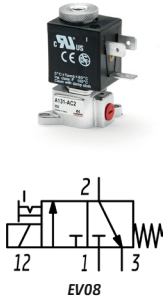


Mod.	Function	Interface	Orifice Ø (mm)	Kv (l/min)	Body material	Manual override	Symbol
A231-BC2-*	3/2 NC	OR fixed	1,5	1,1	Nichel plated brass	Bistable	EV08

\* Choose the most suitable solenoid

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

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

\* Choose the most suitable solenoid

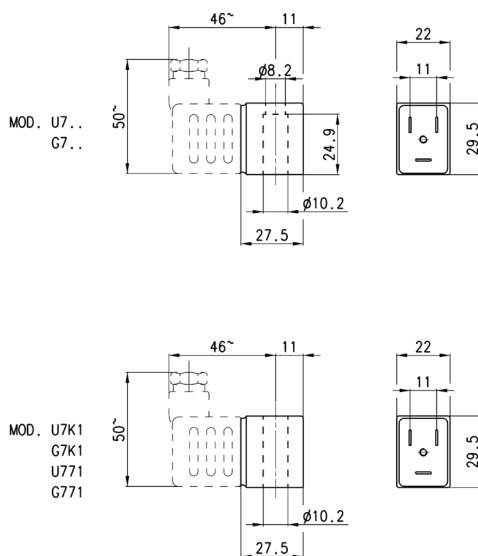
## DIRECT ACTING SOLENOID VALVES

### SERIES A - ACCESSORIES

## 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



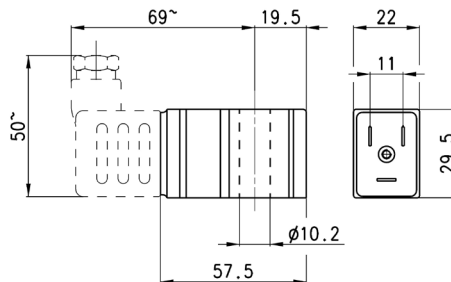
Mod.	Sol. volt. (1)	Pow. abs. (1)	Sol. volt. (2)	Pow. abs. (2)	Sol. volt. (3)	Pow. abs. (3)
<b>U7H</b>	12 V DC	3,1 W	24V - 50/60 Hz	3,5 VA		
<b>G7H</b>	12 V DC	3,1 W	24V - 50/60Hz	3,5 VA		
<b>U7K</b>	110V - 50/60Hz	3,8 VA	125V - 50/60Hz	5,5 VA	72 V DC	4,8 W
<b>U7K1</b>	110V - 50/60Hz	5,8 VA	125V - 50/60Hz	8,3 VA	72 V DC	5,6 W
<b>G7K</b>	110V - 50/60Hz	3,8 VA	125V - 50/60Hz	5,5 VA	72 V DC	4,8 W
<b>G7K1</b>	110V - 50/60Hz	5,8 VA	125V - 50/60Hz	8,3 VA	72 V DC	5,6 W
<b>U7J</b>	230V - 50/60Hz	3,5 VA	240V - 50/60Hz	4 VA		
<b>G7J</b>	230V - 50/60Hz	3,5 VA	240V - 50/60Hz	4 VA		
<b>U79</b>	48 V DC	3,1 W				
<b>G79</b>	48 V DC	3,1 W				
<b>U710</b>	110 V DC	3,2 W				
<b>G710</b>	110 V DC	3,2 W				
<b>U77</b>	24 V DC	3,1 W	48V - 50/60Hz	3,8 VA		
<b>U771</b>	24 V DC	3,1 W	48V - 50/60Hz	3,8 VA		
<b>G77</b>	24 V DC	3,1 W	48V - 50/60Hz	3,8 VA		
<b>G771</b>	24 V DC	3,1 W	48V - 50/60Hz	3,8 VA		
<b>U7F</b>	380V - 50/60Hz	7 VA				
<b>U72</b>	12 V DC	5 W				
<b>G72</b>	12 V DC	5 W				
<b>U73</b>	24 V DC	5 W				
<b>G73</b>	24 V DC	5 W				

Sol. volt. = Solenoid voltage  
Pow. abs. = Power absorption  
Mod. U7K1, G7K1, U771 and G771 are to be used only with sol. valves series A, N0 in line

## Solenoids Mod. G93 (with latching)



Electrical connection: bipolar plus earth  
Norm: DIN EN 175 301-803-B  
Voltage tolerance: ±10%  
Pulsed operation



Mod.	Voltage	Minimum impulse latch/release	Consumption latch/release
<b>G92</b>	12 V DC	18 ms - 10 ms	200 mA - 160 mA
<b>G93</b>	24 V DC	18 ms - 10 ms	100 mA - 80 mA

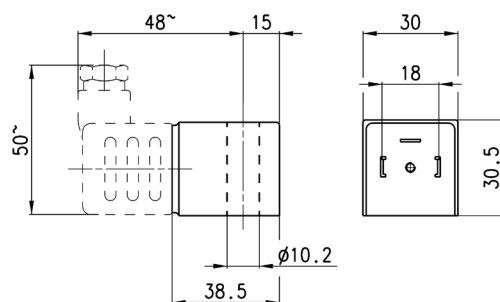
## DIRECT ACTING SOLENOID VALVES

### SERIES A - ACCESSORIES

#### 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

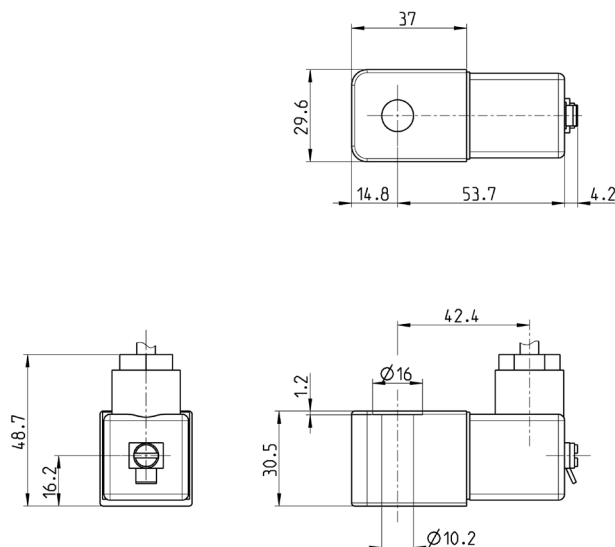
#### Solenoid Mod. H8.. for potentially explosive ambients



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 lengths on request)  
Incapsulating material: self-extinguishing PA