



Miniature electropilots

- Direct intervention electropilots with poppet valve system and cushioned bottom seals
- Assembly on sub-base, threaded connections on the body, CNOMO interface
- Orientable coil (360°) separated from mechanical part
- Versions: 2/2 3/2 NC - NO
- Original Univer SPEED modular sub-bases



Fluid	50 µm filtered air, with or without lubrication; neutral gases (upon request other fluids can be used)			
Ambient temperature	-10 ÷ +50 °C			
Fluid temperature	Max +95 °C			
Commutation system	direct intervention poppet valve system with cushioned seals			
Way/Positions	2/2 NC, 3/2 NC 3/2 NO meccanica concepita per mantenere l'ingresso dell'aria sempre dal corpo			
Pressure	2/2NC - 3/2 NC = 0 ÷ 10 3/2 NO = 3 ÷ 10			
Control	electric			
Return	mechanical spring			
Connections	on sub-base or with threaded connections on the body			
	sob-base	G 1/8	M5	CNOMO
Nominal Ø (mm)	1,2 ÷ 1,5	1 ÷ 1,5	1 ÷ 1,5	1,2 ÷ 1,5
Nominal flow rate (NI/min)	30 ÷ 60	28 ÷ 60	30 ÷ 60	33 ÷ 45
Coil	U1		U3	
Absorption	DA		DC	
Power consumption	3,5 W (DC) - 5 VA (AC)		2,5 W (DC) - 3,3 VA (AC)	
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC			
Protection degree	IP65			



Reference standard

II 2G Ex h IIC T5 Gb

II 2D Ex h IIC T100°C Db





Key



Screwdriver adjustment



Button on the ring nut



Pressure applied with a tool

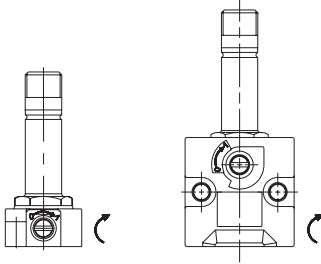
MANUAL CONTROL STANDARD



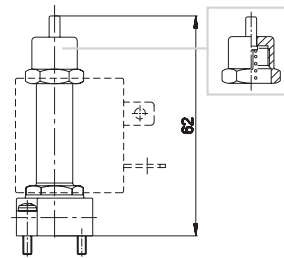
2-POSITION SCREWDRIVER



BUTTON ON THE BEZEL



all NC servo drives where manual intervention is required



3/2 NO solenoid valves

MANUAL CONTROLS ON REQUEST

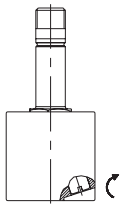


1-2-POSITION SCREWDRIVER

LETTER TO BE ADDED AT THE END OF THE ELECTROPILOT CODE

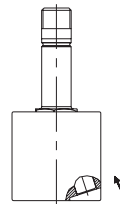


PRESSURE-OPERATED WITH TOOL



A
EXAMPLE:
AB-0886A

CNOMO NC electric actuators only

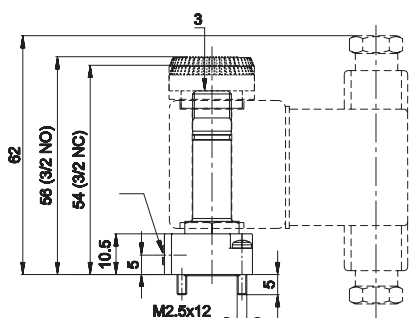
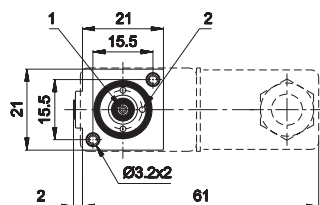


U
EXAMPLE:
AB-0886U

CNOMO NC electric actuators only

AA ELECTRIC ACTUATOR FOR MOUNTING ON AN SPEED BASE

	Code	Way	Ø (d) mm	Flow rate (Nl/min)		Resp. Time (ms)		Manual override	Weight kg	
				1 → 2	2 → 3	En.	De-en			
	AA-0184	3/2 NC	1,5	60	80	12	12		0,027	
	AA-0186	2/2 NC	1,3	50	-	16	-		0,027	
	AA-0188	3/2 NO	1,2	30	70	11	10		0,030	



A Manual override

1 = Supply port

2 = Use

3 = Exhaust

Material:

valve body Technopolymer

sleeve Treated brass

core and spring Stainless steel

seals NBR

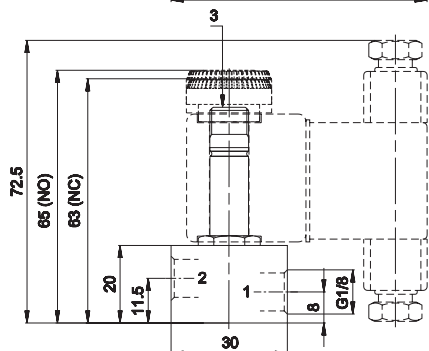
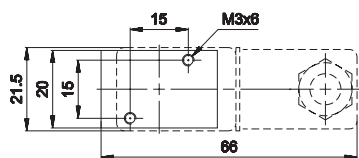
Use SPEED subbase to build Manifolds.

Available upon request: brass valve body (without manual override), zamak valve body, stainless steel sleeve, other inner diameters.

close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one

AA SOLENOID VALVE, G1/8 THREAD

	Code	Way	Ø (d) mm	Flow rate (Nl/min)		Resp. Time (ms)		Manual override	Weight kg	
				1 → 2	2 → 3	En.	De-en			
	AA-0211	3/2 NC	1,5	60	85	12	12	-	0,105	
	AA-0219	2/2 NC	1,3	60	-	16	-	-	0,105	
	AA-0213	3/2 NO	1,2	28	75	11	9		0,105	


Material:

1 = Supply port

2 = Use

3 = Exhaust

valve body Brass

sleeve Treated brass

core and spring Stainless steel

seals NBR

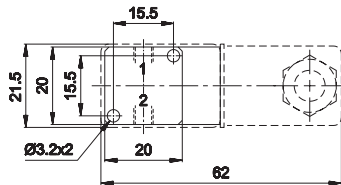
Electropilot to be used alone.

Brass body suitable for intercepting non-aggressive liquids. No manual override. Available upon request: stainless steel sleeve - other inner diameters.

close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one

AA ELECTRIC ACTUATOR, M5 THREAD

	Code	Way	Ø (d) mm	Flow rate (Nl/min)		Resp. Time (ms)		Manual override	Weight kg	
				1 → 2	2 → 3	En.	De-en			
	AA-0231	3/2 NC	1,5	60	80	12	12	-	0,065	
	AA-0239	2/2 NC	1,3	50	-	16	-	-	0,065	
	AA-0233	3/2 NO	1,2	30	70	11	10		0,065	



Material:

1 = Supply port	valve body	Brass
2 = Use	sleeve	Treated brass
3 = Exhaust	core and spring	Stainless steel
	seals	NBR

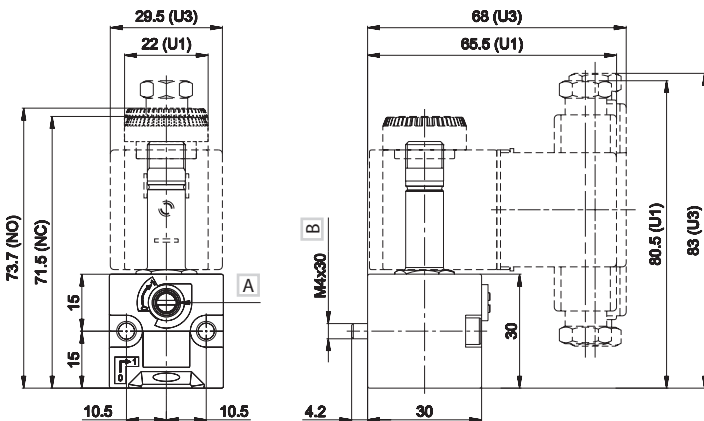
Electropilot to be used alone.

Brass body suitable for intercepting non-aggressive liquids. No manual override. Available upon request: stainless steel sleeve - other inner diameters

close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one

AA ELECTRIC PILOT FOR FITTING TO A CROMO BASE

	Code	Way	Ø (d) mm	Flow rate (Nl/min)		Resp. Time (ms)		Manual override	Weight kg	
				1 → 2	2 → 3	En.	De-en			
	AA-0400	3/2 NC	1,5	45	77	12	12		0,052	
	AA-0400U	3/2 NC	1,5	45	77	12	12		0,052	
	AA-0402	2/2 NC	1,3	42	-	18	-		0,052	
	AA-0404	3/2 NO	1,2	33	77	11	10		0,060	



A Manual override

B ISO 4762

1 = Supply port

2 = Use

3 = Exhaust

Material:

valve body	Technopolymer
sleeve	Treated brass
core and spring	Stainless steel
seals	NBR

Available upon request: zamak valve body, stainless steel sleeve, other inner diameters.

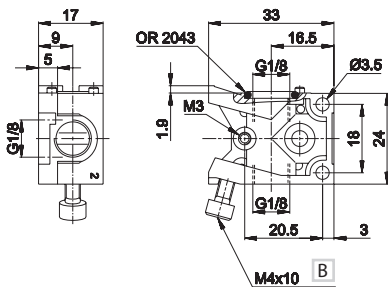
close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one

Electropilots are supplied without coil and connector

MODULAR SUB-BASE

	Code	Electropilot	Connections	Material	Weight kg
	AA-0450	SPEED	G 1/8	zamak	0,037
	AB-0900	CNOMO	G 1/8	zamak	0,075

MODULAR SUB-BASE SPEED G1/8



B ISO 4762

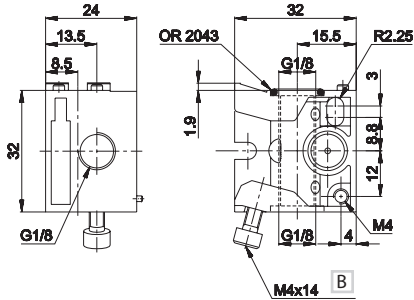
Advantages

The original UNIVER "Speed" series was designed to solve some operational problems

- Possibility of defining the number of sub-bases at the moment of use
- Possibility of freely increasing or reducing the number of elements
- Quick assembly with special screw (built-in) standard supplied
- Reduction of stock holding
- Easy technical intervention

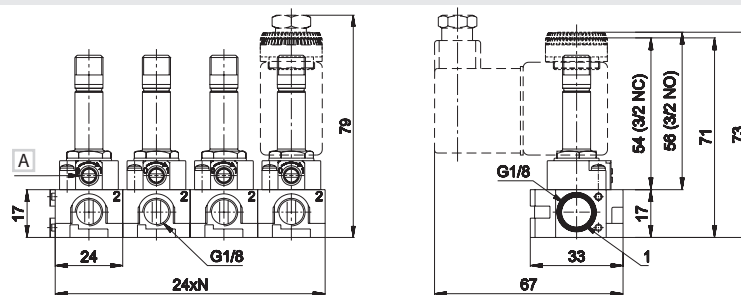
Air supply is rotated by 90° in comparison with side consumption
Standard (built-in) screw and O-Ring

MODULAR SUB-BASE CNOMO G1/8

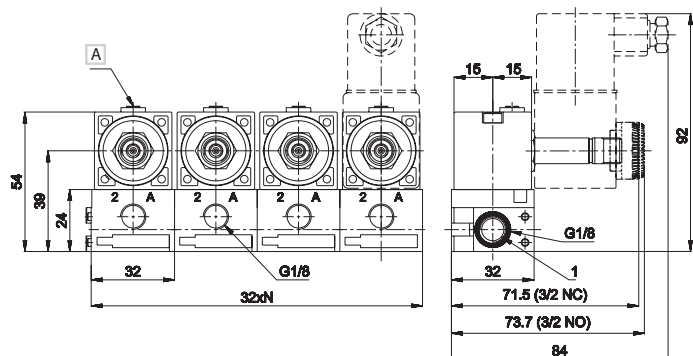
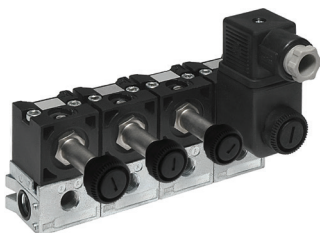


When assembling the manifold, put the bases on a flat surface and tighten the screw until the manifold is perfectly aligned.

SUB-BASE: EXAMPLE OF USE SPEED G1/8 WITH AA PILOT



SOTTOBASE: ESEMPIO DI UTILIZZO SPEED CNOMO G1/8 CON PILOTA AA



Electropilots are supplied without coil and connector

SLEEVES AA

	Code	Way	Ø Exhaust mm	Pressure bar	Weight kg
	AA-0157	3/2 NC	1,5	0÷10	0,022
	AA-0170	2/2 NC	-	0÷10	0,022
	AA-0150	3/2 NO	1,2	3÷10	0,024

NC

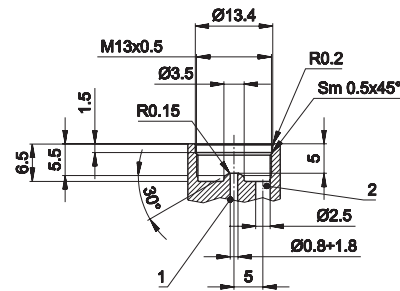
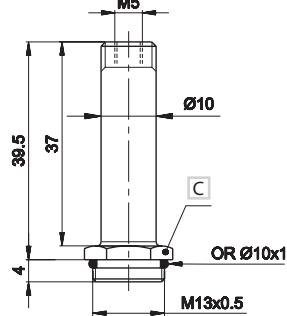
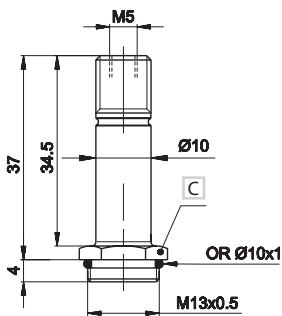
NO

DETAIL OF MACHINING

Wrench 14

1 = Supply port

2 = Use



Material:

Sleeve treated brass

Cores and spring stainless steel

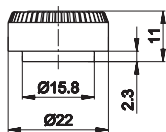
Seals NBR

Upon request viton seals and stainless steel sleeves (only NC versions)

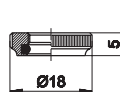
LOCKING RINGS FOR COILS ON SLEEVES

	Code	Way	Version	Material	Coil
	AM-5211A	3/2 NC	= radial exhausts	technopolymer	Series U1
	AM-5211B	2/2 NC	= radial exhausts	technopolymer	Series U1
	AM-5213A	3/2 NO	= open exhausts	brass	Series U1

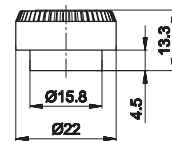
3/2 NC



2/2 NC



3/2 NO



COILS

CSA/UL

Possibility of replacement without intervention in the pneumatic circuit

Other voltages available upon request

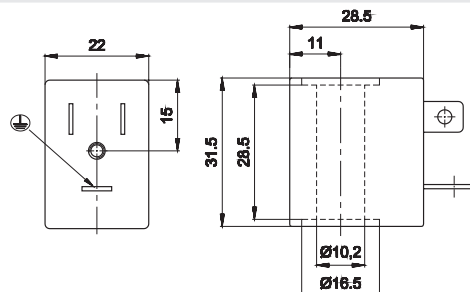
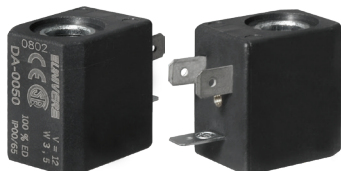
360° rotation on the pilot. Coil winding: H class

Ambient temperature: -10 ÷ +45 °C. Fluid temperature: -10 ÷ +95 °C.

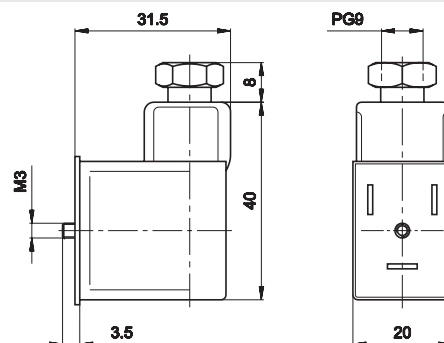
The solenoid valves functioning with 100V-230V must be incorporated (EN60204-1)

Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated.

Protection class IP65, if used with connector.


COILS U1


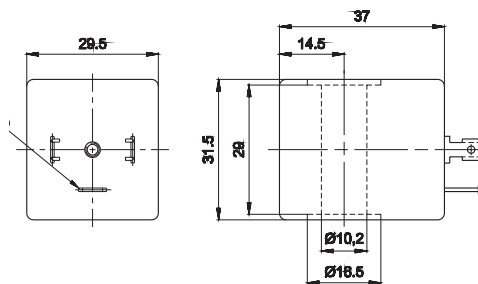
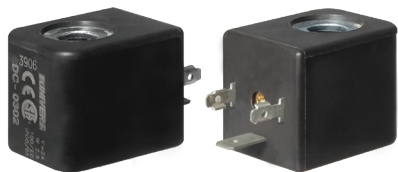
Code	Duty cycle ED (a) %	Power consumption W		Tolerance tension %	Rated voltage	Weight Kg
		Hold	Inrush			
DA-0050	100	3,5	3,5	±10	12 V DC	0,06
DA-0051	100	3,5	3,5	±10	24 V DC	0,06
DA-0106	100	5,4 VA (Max)	7,8 VA (Max)	±10	24 V AC/50-60 HZ	0,06
DA-0108	100	5,4 VA (Max)	7,8 VA (Max)	±10	110 V AC/50-60 HZ	0,06
DA-0124	100	5,4 VA (Max)	7,8 VA (Max)	±10	230 V AC/50-60 HZ	0,06

CONNECTOR FOR COILS U1


Code	Coils series	Protection according	Cable connection	Rotation
AM-5110	U1	IP65	PG9	180°

LED available upon request.

COILS U3

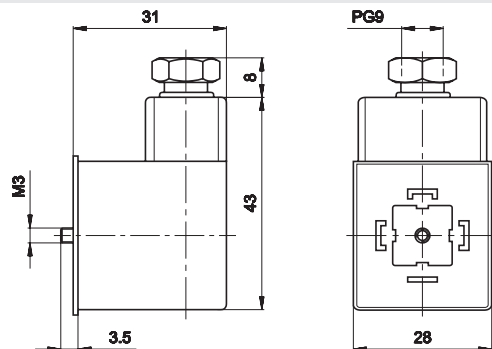


Code	Duty cycle ED (a) %	Power consumption W		Tolerance tension %	Rated voltage	Weight Kg
		Hold	Inrush			
DC-0301	100	2,5	2,5	±10	12 V DC	0,08
DC-0302	100	2,5	2,5	±10	24 V DC	0,08
DC-0307	100	3,3 VA (Max)	5 VA (Max)	±10	24 V AC/50-60 HZ	0,08
DC-0309	100	3,3 VA (Max)	5 VA (Max)	±10	110 V AC/50-60 HZ	0,08
DC-0310	100	3,3 VA (Max)	5 VA (Max)	±10	230 V AC/50-60 HZ	0,08

(a) = 110V - 230V solenoid valves must be built-in (EN-60204-1)

Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated

CONNECTOR DIN 43650 FOR COILS U3



Code	Coils series	Protection according	Cable connection	Rotation
AM-5111	U3	IP65	PG9	360°

LED available upon request.