

# AA

## Miniature electropilots U1

- 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



### **TECHNICAL** FEATURES

Ambient temperature		-10 ÷ +50 °C				
Fluid temperature	max +95 °C					
Fluid		10 µm filtered air, lubricated or not, neutral gases				
		(upon request other fluids can be used)				
Commutation system	direct interv	direct intervention poppet valve system with cushioned seals				
Ways/Positions		2/2 NC, 3/2 NC, 3/2 NO <sup>(a)</sup>				
Pressure		<b>2/2, 3/2 NC</b> = 0 ÷ 10				
	<b>3/2 NO</b> = 3 ÷ 10					
Control	electric					
Return	mechanical spring					
Connections	on sub-base or with threaded connections on the body					
		sub-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	

### **CONSTRUCTIVE** FEATURES

Materials
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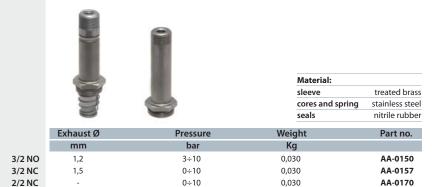
see features below

### **ELECTRIC** FEATURES

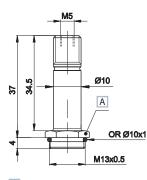
Series	U1	U3			
Coil	DA	DC			
Power consumption	3,5 W (DC) - 5 VA (AC)	2,5 W (DC) - 3,3 VA (AC)			
Connector	AM 5110	AM 5111			
Voltage	12 V DC - 24 V DC - 24 V	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC			
Protection degree IP65					

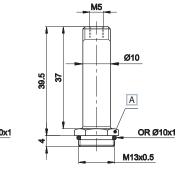
For other electric features see section "Accessories>Coils"

### U1 Sleeves - with moving core



Upon request viton seals and stainless steel sleeves (only NC versions) NC NO





A Wrench 14

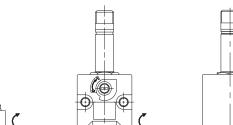
### Locking rings for coils on sleeves

9				
Version	Suitable for sleeves	Material	Coil	Part no.
1 = radial exhausts	3/2 NO	technopolymer	U1	AM-5213A
2 = radial exhausts	3/2 NC	technopolymer	U1	AM-5211A
3 = open exhausts	2/2 NC	brass	U1	AM-5211B

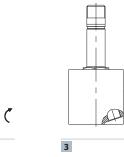
In order to convey exhausts, use version 3

### Standard manual overrides

Functionig	Suitable for sleeves	Symbol/Part no.
<b>1</b> = with 2 position screw	all NC U1 electropilots that can use manual override	$\ominus$
2 = with impulse 1-2 position screw	v only CNOMO NC U1 electropilots	$\ominus$
<b>3</b> = with button with tool	only CNOMO NC U1 electropilots	$\rightarrow$
<b>4</b> = with button, 1 position	U1 3/2 NO electropilots	AM-5201 (a)



(a) = Mounted on the 3/2 NO sleeve

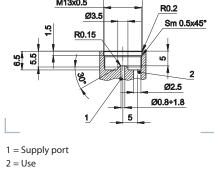


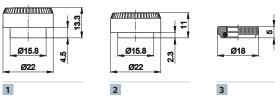
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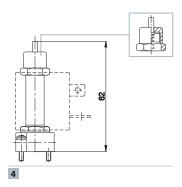
 $\bigcirc$  = with 2 position screw  $\rightarrow$  = with button with tool

2

### Ø13.4 M13x0.5 Ø3.5



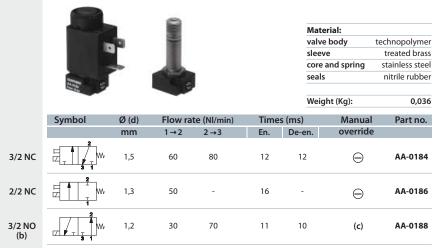




# Particolare lavorazione sede

1

# U1 2/2 - 3/2 Electropilot for assembling on sub-base



Use SPEED subbase to build Manifolds, see following pages.

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

# U1 2/2 - 3/2 G1/8 Electropilot



Material:	
valve body	brass
sleeve	treated brass
core and spring	stainless stee
seals	nitrile rubbe

					Weight (Kg):		0,105	
	Symbol	Ø (d)	Flow ra	te (Nl/min)	Times	s (ms)	Manual	Part no.
		mm	1→2	2 →3	En.	De-en.	override	
3/2 NC		1,5	60	85	12	12	-	AA-0211
2/2 NC		1,3	60	-	16	-	-	AA-0219
3/2 NO (b)		1	28	75	11	9	(c)	AA-0213

Electropilot to be used done.

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





Material:	
valve body	brass
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber

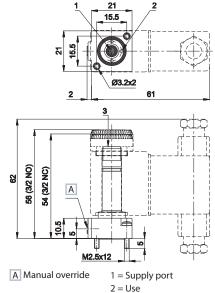


Electropilot to be used done.

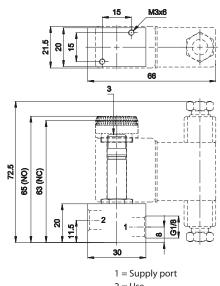
Brass body suitable for use with non-aggressive luiquids. No manual override. Available upon request: stainless steel sleeve - other inner diameters.

(b) = close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one (d) = the Ø shown on the 3/2 valves refers to the exhhaust

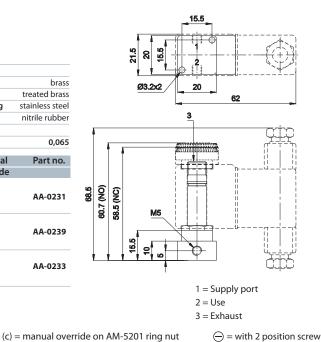
Electropiltots are supplied without coil, connector and locking ring







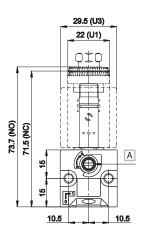
2 = Use 3 = Exhaust

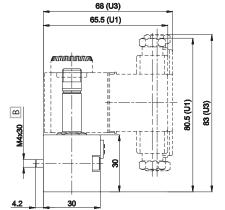


# U1 CNOMO 2/2 - 3/2 Electropilot for mounting on sub-bases SPEED U2



Sub-base: SPEED U2. Available upon request: brass valve body (without manual override). Zamak valve body. Stainless steel sleeve - other inner diameters.





### Modular sub-base "SPEED" series U1/U2 G1/8



Electropilot	Connections	Material	Weight	Part no.
			Kg	
U1 for base	G 1/8	zamak	0,037	AA-0450
U2 for base	G 1/8	zamak	0,075	AB-0900

#### 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

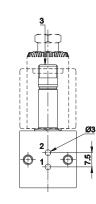
- Possibility of freely increasing or reducing the number of elements
- Quick assembly with special screw (built-in) standard supplied
- Reduction of stock holding
- Easy technical intervention

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

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

(b) = close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one (d) = the Ø shown on the 3/2 valves refers to the exhhaust

Electropiltots are supplied without coil, connector and locking ring

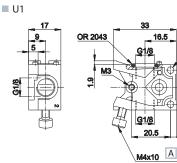


A Manual override B ISO 4762

1 = Supply port 2 = Use 3 = Exhaust

Ø<u>3.5</u>

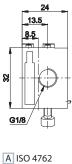
R2.25



OR 2043

<u>e</u>





A 150 470

(c) = manual override on ring nut AM-5201

U



15.5

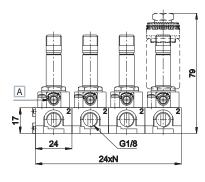
<u>G1/8</u>

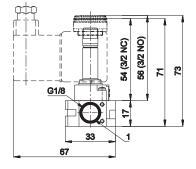
 $\bigcirc$  = with 2 position screw  $\rightarrow$  = with button with tool



### U1 G1/8 sub-base







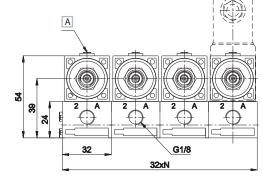
A Manual override

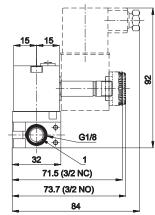
1 = Supply port 2 = Use

N = Number of valve positions

# U2 G1/8 CNOMO sub-base







A Manual override



N = Number of valve positions