

# AA

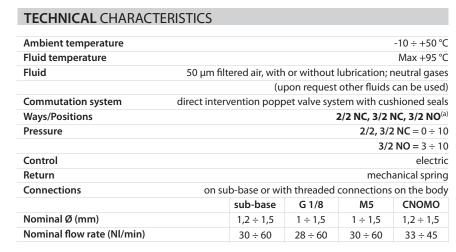
### Miniature electropilots U1

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

ATEX version available upon request

### C € € II 2Gc IIC T5 II 2Dc T100°C



### **CONSTRUCTIVE CHARACTERISTICS**

**Materials** see features below

<b>ELECTRIC</b> CHARACTERISTI	CS
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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	AC - 110 V AC - 230 V AC
Protection degree		IP65

For other electric features see section "Accessories>Coils"



For electropilots in compliance with CSA/UL certification see the related section "Omologated electropilots"

(a) = Mechanical part designed to keep the air supply always from the body (Useful in case of assembly of more NC-NO pilots in series to have a unique supply port)



### U1 Sleeves - with moving core

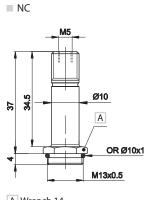


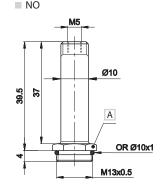
Material:	
sleeve	treated brass
cores and spring	stainless steel
seals	nitrile rubber

3/2 NO 3/2 NC 2/2 NC

Exhaust Ø	Pressure	Weight	Part no.
mm	bar	Kg	
1,2	3÷10	0,024	AA-0150
1,5	0÷10	0,022	AA-0157
-	0÷10	0,022	AA-0170

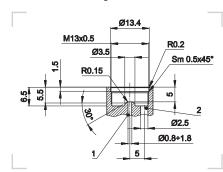
Upon request viton seals and stainless steel sleeves (only NC versions)





A Wrench 14

■ Detail of machining



1 = Supply port

2 = Use

1

### Locking rings for coils on sleeves







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

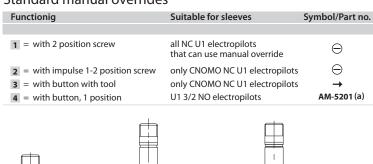
## Ø15.8 Ø22

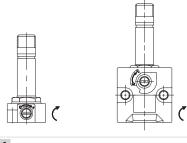


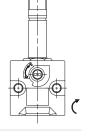


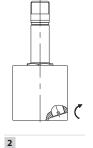
3

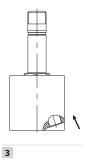
### Standard manual overrides

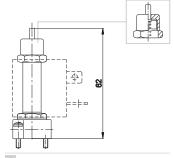








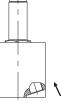




(a) = montato sull'estremità del cannotto 3/2 NO

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





3/2 NC

2/2 NC

3/2 NO (b)

3/2 NC

2/2 NC

3/2 NO



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



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

Symbol	Ø (d)	Flow ra	te (NI/min)	Resp. T	ime (ms)	Manual	Weight	Part no.
	mm	1 → 2	2 →3	En.	De-en.	override	Kg	
2 1 3 1	1,5	60	80	12	12	$\ominus$	0,027	AA-0184
2 1 W	1,3	50	-	16	-	$\Theta$	0,027	AA-0186
7 7 T T WW	1,2	30	70	11	10	(c)	0,030	AA-0188

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 steel
seals	nitrile rubber

Symbol	Ø (d)	Flow rat	te (NI/min)	Resp. T	ime (ms)	Manual	Weight	Part no.
	mm	1 → 2	2 →3	En.	De-en.	override	Kg	
7 T W	1,5	60	85	12	12	-	0,105	AA-0211
2 1	1,3	60	-	16	-	-	0,105	AA-0219
7 7 T W	1,2	28	75	11	9	(c)	0,105	AA-0213

Electropilot to be used alone.

Brass body suitable for intercepting non-aggressive luiquids. No manual override.

Available upon request: stainless steel sleeve - other inner diameters.

### U1 2/2 - 3/2 M5 Electropilot



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

Symbol	Ø (d)	Flow rat	te (Nl/min)	Resp. Ti	me (ms)	Manual	Weight	Part no.	
	mm	1 → 2	2 →3	En.	De-en.	override	Kg		
7 T W	1,5	60	80	12	12	-	0,065	AA-0231	90
2 1 1	1,3	50	-	16	-	-	0,065	AA-0239	
2 1 3 1	1,2	30	70	11	10	(c)	0,065	AA-0233	

Electropilot to be used alone.

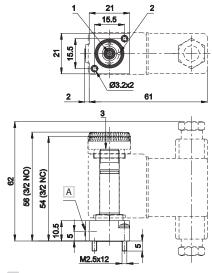
Brass body suitable for intercepting non-aggressive luiquids. No manual override. Available upon request: stainless steel sleeve - other inner diameters.

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

Electropilots are supplied without coil and connector

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

= with 2 position screw



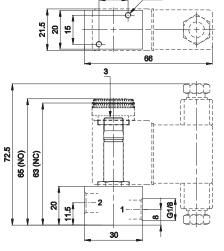
A Manual override

1 = Supply port

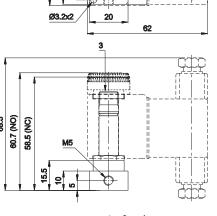
2 = Use

3 = Exhaust

МЗх6



- 1 = Supply port
- 2 = Use
- 3 = Exhaust



- 1 = Supply port
- 2 = Use
- 3 = Exhaust

3/2 NC

2/2 NC

3/2 NO (b)



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



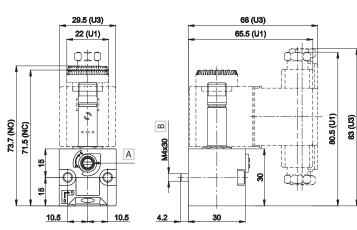
Material:	
valve body	technopolymer
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber

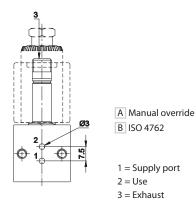
3/2 NC 2/2 NC

3/2 NO (b)

Symbol	Ø (d)	Flow rate (NI/min)		Resp. Time (ms)		Manual	Weight	Part no.
	mm	1→2	2 →3	En.	De-en.	override	Kg	
# ** ** ** ** ** ** ** ** ** ** ** ** **	1,5 1,5	45 45	77 77	12 12	12 12	$\ominus$	0,052 0,052	AA-0400 AA-0400U
2 1 W	1,3	42	-	18	-	$\Theta$	0,052	AA-0402
2 N 3 1	1,2	33	77	11	10	(c)	0,060	AA-0404

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





■ U1

■ U2

13.5

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





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

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 perfectly aligned.

- A ISO 4762 (c) = manual override on ring nut AM-5201
- $\bigcirc$  = with 2 position screw  $\rightarrow$  = with button with tool

Α

G1/8

OR 2043

M4x10 A

15.5

R2.25

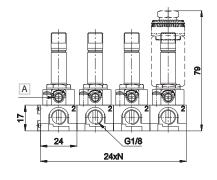
- (b) = close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one (d) = the  $\emptyset$  shown on the 3/2 valves refers to the exhhaust
- Electropilots are supplied without coil and connector

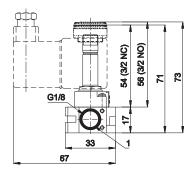
18



### U1 G1/8 sub-base







71.5 (3/2 NC)

73.7 (3/2 NO)

A Manual override

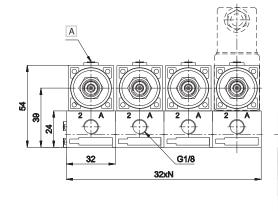
1 = Supply port

2 = Use

N = Number of valve positions

### U1 G1/8 CNOMO sub-base





A Manual override

1 = Supply port

2 - A = Use

N = Number of valve positions

Subject to change ELECTROPILOTS 3.1