

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 CHARACT	ERISTICS					
Ambient temperature					-10 ÷ +50 °C	
Fluid temperature					max +95 °C	
Fluid		10 μm filter	ed air, lubrica	ated or not, i	neutral gases	
	(upon request other fluids can be used					
Commutation system	direct inter	direct intervention poppet valve system with cushioned seals				
Ways/Positions		2/2 NC, 3/2 NC, 3/2 NO ^(a)				
Pressure		$2/2$, $3/2$ NC = $0 \div 10$				
				3/2	$NO = 3 \div 10$	
Control		electric				
Return		mechanical spring				
Connections	on su	ıb-base or wi	th 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 CHARACTERISTICS

Materials see features below

ELECTRIC CHARACTERISTICS

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"



U1 Sleeves - with moving core

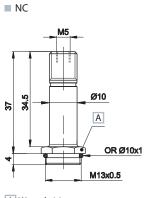


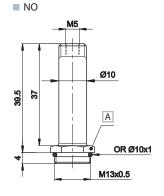
Material:	
sleeve	treated brass
cores and spring	stainless steel
seals	nitrile rubber

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

Part no.	Weight	Pressure	Exhaust Ø
	Kg	bar	mm
AA-0150	0,030	3÷10	1,2
AA-0157	0,030	0÷10	1,5
AA-0170	0,030	0÷10	-

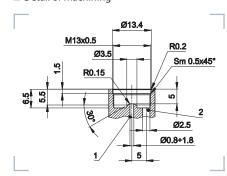
Upon request viton seals and stainless steel sleeves (only NC versions)





A Wrench 14

■ Detail of machining



- 1 = Supply port
- 2 = Use

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 1

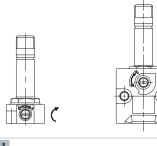


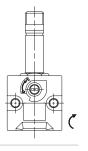


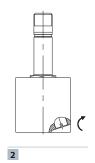
3

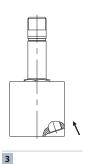
Standard manual overrides

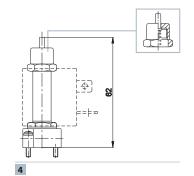
Functionig	Suitable for sleeves	Symbol/Part no.
1 = with 2 position screw	all NC U1 electropilots that can use manual override	Θ
2 = with impulse 1-2 position screw	only CNOMO NC U1 electropilots	\ominus
3 = with button with tool	only CNOMO NC U1 electropilots	\rightarrow
4 = with button, 1 position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











- (a) = Mounted on the 3/2 NO sleeve
- \bigcirc = with 2 position screw \rightarrow = with button with tool



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

Flow rate (NI/min)



Symbol

3/2 NC

2/2 NC

3/2 NO

3/2 NC

2/2 NC

3/2 NO

3/2 NC

2/2 NC

3/2 NO

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

Weight (Kg):	0,036
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Manual Part no.

,	mm	1 → 2	2 →3	En.	De-en.	override	
2 W	1,5	60	80	12	12	Θ	AA-0184
2 1 1	1,3	50	-	16	-	Θ	AA-0186
2 W	1,2	30	70	11	10	(c)	AA-0188

Times (ms)

Use SPEED subbase to build Manifolds, see following pages. Available upon request: brass valve body (without manual override), zamak valve body,

56 (3/2 NO) Š 잃 54 (3/2 N

A Manual override

1 = Supply port

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

stainless steel sleeve, other inner diameters.



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

Weight (Kg):	0,105

Symbol	Ø (d)	Flow ra	te (NI/min)	Times	s (ms)	Manual	Part no.
	mm	1→2	2 →3	En.	De-en.	override	
T 3 1 W	1,5	60	85	12	12	-	AA-0211
**************************************	1,3	60	-	16	-	-	AA-0219
7 F T T W	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.

72.5 65 (NO) SS (NC) 61/8

1 = Supply port

2 = Use

3 = Exhaust

U1 2/2 - 3/2 M5 Electropilot



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

0,065

Weight (Kg):

Symbol	Ø (d)	Flow ra	te (NI/min)	Time	s (ms)	Manual	Part no.
	mm	1→2	2 →3	En.	De-en.	override	
2 V T N W	1,5	60	80	12	12	-	AA-0231
2 1 W	1,3	50	-	16	-	-	AA-0239
2 W	1	30	70	11	10	(c)	AA-0233

Electropilot to be used done.

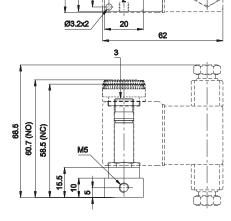
Brass body suitable for use with non-aggressive luiquids. No manual override. Available upon request: stainless steel sleeve - other inner diameters.

(b) = close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one

(d) = the \emptyset shown on the 3/2 valves refers to the exhhaust

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

= with 2 position screw



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1 = Supply port

2 = Use

3 = Exhaust

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



Ø (d)

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

Weight (Kg):	0,155
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Part no.

AA-0400

AA-0402

AA-0404

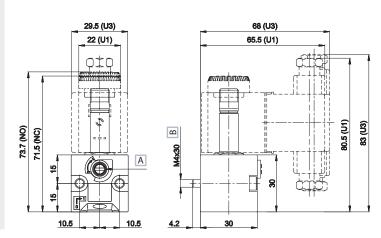
AA-0400U

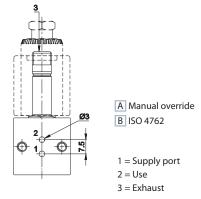
Manual

		mm	1→2	2 →3	En.	De-en.	override
3/2 NC	## ** ** ** ** ** ** ** ** ** ** ** ** *	1,5 1,5	45 45	77 77	12 12	12 12	\ominus
2/2 NC	2 1 W	1,3	42	-	-	-	Θ
3/2 NO (b)	2 m	1,2	33	77	11	10	(c)

Flow rate (NI/min)

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





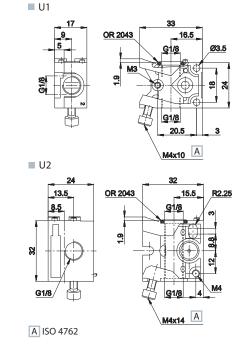
Electropilot	Connections	Material	Weight	Part no.
			Kg	
U1 for base	G 1/8	zamak	0,037	AA-0450
U2 for base	G 1/8	zamak	0,075	AB-0900

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 \emptyset shown on the 3/2 valves refers to the exhhaust

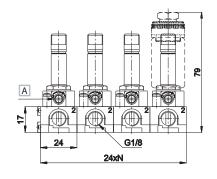
(c) = manual override on ring nut AM-5201

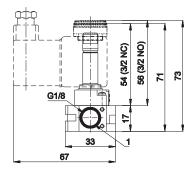
= with 2 position screw → = with button with tool

Electropiltots are supplied without coil, connector and locking ring

U1 G1/8 sub-base







A Manual override

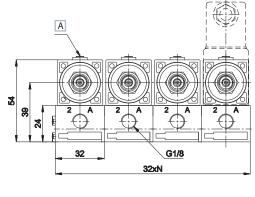
1 = Supply port

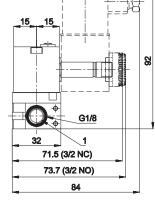
2 = Use

N = Number of valve positions

U2 G1/8 CNOMO sub-base







A Manual override

1 = Supply port

2 - A = Use

N = Number of valve positions