

AB

Miniature electropilots U2

Direct intervention electropilots with poppet valve system and bottom cushioned 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-base



TECHNICAL CHARACTERISTICS						
Ambient temperature					-10 ÷ +50 °C	
Fluid temperature					max +95 °C	
Fluid			filtered air	10 μm, lubr	icated or not	
		(u	pon request	other fluids	can be used)	
Commutation system	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 = $0 \div 10$					
	$3/2 \text{ NO} = 3 \div 10$					
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)		2,1 ÷ 2,4	2,1 ÷ 2,4	1,6 ÷ 6	2,1 ÷ 2,4	
Nominal flow rate (NI/min)	92 ÷ 150					

CONSTRUCTIVE CHARACTERISTICS

Materials see features below

ELECTRIC CHARACTERISTICS

Series	U2
Coil	DB
Power consumption	11W (DC) - 10 VA (AC)
Connector	AM 5111
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC

For other electric features see section "Accessories>Coils"

Miniature electropilots U2



U2 Sleeves - with moving core



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

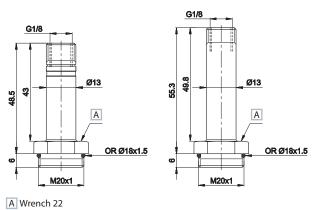
3/2 NO 3/2 NC 2/2 NC (a) 2/2 NC

Exhaust Ø	Pressure	Weight	Part no.
mm	bar	Kg	
2,4	3÷10	0,060	AB-0600
2,4	0÷10	0,060	AB-0613
-	0÷10	0,060	AB-0640
-	0÷10	0,070	AB-0643

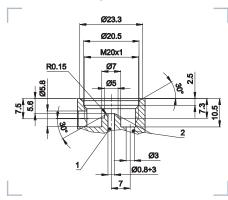
Upon request viton seals and stainless steel sleeves (only NC options)







■ 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	U2	AM-5214A
2 = radial exhausts	3/2 NC	technopolymer	U2	AM-5212A
3 = open exhausts	2/2 NC	brass	U2	AM-5212B

In order to convey exhausts, use version 3

Ø15.8 Ø22

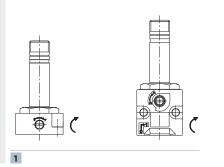




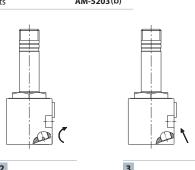
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Standard manual overrides with electropilots

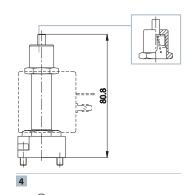
		•	
П	Functionig	Suitable for sleeves	Symbol/Part no.
П			
	1 = with 2 position screw	all NC U2 electropilots that can use manual override	Θ
	2 = with impulse 1-2 position screw	only CNOMO NC U2 electropilots	Θ
	3 = with button with tool	only CNOMO NC U2 electropilots	\rightarrow
	4 = with button, 1 position	U2 NO 3/2 electropilots	AM-5203(b)



(a) = Suitable for sub-bases with diameter from $3 \div 6$



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



= with 2 position screw

 \rightarrow = with button with tool

3/2 NC

3/2 NC

2/2 NC

2/2 NC

3/2 NO (c)

3/2 NC

3/2 NC

2/2 NC

2/2 NC

3/2 NO (c)



U2 2/2 - 3/2 Electropilot for assembling on sub-base



zamak
treated brass
stainless steel
nitrile rubber

Weight (Kg): 0,125

Symbol	Ø (d)	Flow ra	te (NI/min)	Time	s (ms)	Manual	Part no.
	mm	1→2	2 →3	En.	De-en.	override	
7 T N N	2,4	150	160	13	10	_	AB-0681
#	2,4	150	160	13	10	\ominus	AB-0687
2 1 W	2,1	130	-	13	-	_	AB-0722
# *** W	2,1	130	-	13	-	Θ	AB-0728
2 1 3 1	2,4	92	148	14	10	(e)	AB-0685

 ${\it Sub-base: SPEED~U2.~Available~upon~request: stainless~steel~sleeve-other~inner~diameters.}$

A Manual override
B ISO 4762

1 = Supply port

2 = Use

3 = Exhaust

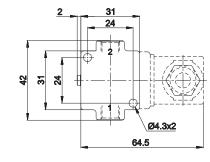
U2 2/2 - 3/2 G1/8 Electropilot

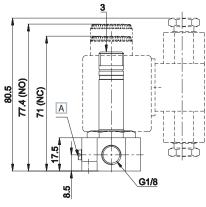


Material:	
valve body	zamak
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber
seals	nitrile rubbe

Weight (Kg):	0,145
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Symbol	Ø (d)	Flow ra	te (NI/min)	Time	s (ms)	Manual	Part no.
	mm	1→2	2 →3	En.	De-en.	override	
7 T W	2,4	155	210	13	10	_	AB-0751
2 W	2,4	155	210	13	10	Θ	AB-0757
2 1 W	2,1	155	-	12	-	_	AB-0765
2 1 1	2,1	155	-	12	-	Θ	AB-0771
2 1 3 1	2,4	100	150	14	11	(e)	AB-0755
Available upon r	equest: sta	inless stee	l sleeve - oth	er inner	diameters		





A Manual override

1 = Supply port

2 = Use

3 = Exhaust

(c) = 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 exhaust. \bigcirc = with 2 position screw. (e) = manual override on AM-5203 ring nut

3/2 NC

3/2 NO (c)

2/2 NC



U2 3/2 G1/4 Electropilot



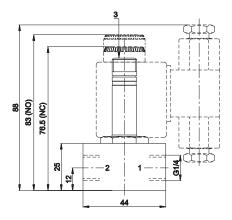
Material:	
valve body	brass\
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber

Weight (Kg):	0,225
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Symbol	Ø (a)	riow rat	e (NI/MIN)	rimes	(ms)	Manuai	Part no.
	mm	1 → 2	2 → 3	Ecc.	Dis.	override	
7 T W	2,1	200	210	13	11	_	AB-0822
7 T T W	2,1	95	160	12	10	(e)	AB-0819

Suitable for use with non-aggressive liquids. Upon request: stainless steel body and sleeve.

M6x7



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

U2 2/2 G1/4 Electropilot

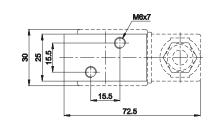


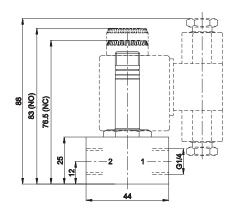
Material:	
valve body	brass
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber

Weight (Kg):	0,220

(a) ه	Flow rate	Pressure	Times	s (ms)	Part no.
mm	(NI/min)	bar	En.	De-en	
1,6	108	0÷30	6	-	AB-0824
2	165	0÷20	9	-	AB-0825
2,4	210	0÷15	11	-	AB-0826
3	280	0÷10	12	-	AB-0827
3,5	350	0÷9	-	10	AB-0828
4	450	0÷8	-	13	AB-0829
4,5	500	0÷7	-	13	AB-0830
5	550	0÷6,5	-	16	AB-0831
5,5	600	0÷6	-	21	AB-0832
6	650	0÷5	-	29	AB-0833
	1,6 2 2,4 3 3,5 4 4,5 5 5,5	mm (NI/min) 1,6 108 2 165 2,4 210 3 280 3,5 350 4 450 4,5 500 5 550 5,5 600	mm (NI/min) bar 1,6 108 0÷30 2 165 0÷20 2,4 210 0÷15 3 280 0÷10 3,5 350 0÷9 4 450 0÷8 4,5 500 0÷7 5 550 0÷6,5 5,5 600 0÷6	mm (NI/min) bar En. 1,6 108 0÷30 6 2 165 0÷20 9 2,4 210 0÷15 11 3 280 0÷10 12 3,5 350 0÷9 - 4 450 0÷8 - 4,5 500 0÷7 - 5 550 0÷6,5 - 5,5 600 0÷6 -	mm (NI/min) bar En. De-en 1,6 108 0÷30 6 - 2 165 0÷20 9 - 2,4 210 0÷15 11 - 3 280 0÷10 12 - 3,5 350 0÷9 - 10 4 450 0÷8 - 13 4,5 500 0÷7 - 13 5 550 0÷6,5 - 16 5,5 600 0÷6 - 21

Suitable for use with non-aggressive liquids.





1 = Supply port

2 = Use



Voltage 24V AC - 50/60 Hz DB-0607 110V AC - 50/60 Hz DB-0608 220V AC - 50/60 Hz DB-0610

(c) = 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 exhaust. \bigcirc = with 2 position screw. (e) = manual override on AM-5203 ring nut

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



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

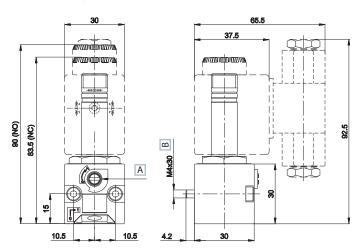
Weight (Kg):	0,15

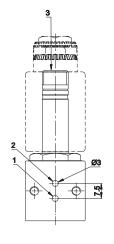
3/2 NC	
2/2 NC	
3/2 NO	

(c)

Symbol	Ø (d)	Flow rat	te (NI/min)	Times	s (ms)	Manual	Part no.
	mm	1→2	2→3	En.	De-en.	override	
##	2,4	110	170	13	12	\ominus	AB-0885
2 1 1	2,1	115	-	12	-	Θ	AB-0886
2 W 3 1	2,4	92	148	13	10	(e)	AB-0888

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





- A Override manual
- B ISO 4762
- 1 = Supply port
- 2 = Use
- 3 = Exhausts

Modular sub-base SPEED series U2 G1/8



Electropilot	Connections	Material	Weight	Part no.
			kg	
U2 for base	G 1/8	zamak	0,075	AB-0900

13.5 M4x14 A A ISO 4762

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

- Possibility of defining the number of sube-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

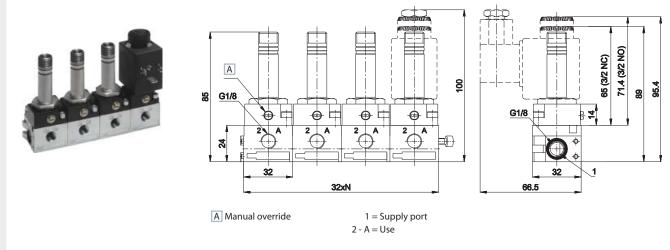
When assembling the manifold, put the bases on a flat surface and tighten the screw until the manifold is perfecty aligned. $\frac{1}{2} \int_{\mathbb{R}^{n}} \frac{1}{2} \int_{\mathbb{R}^{n}} \frac{1}{2}$

(c) = 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 \bigcirc = with 2 position screw (e) = manual override on ring nut AM-5203

Electropiltots are supplied without coil, connector and locking ring

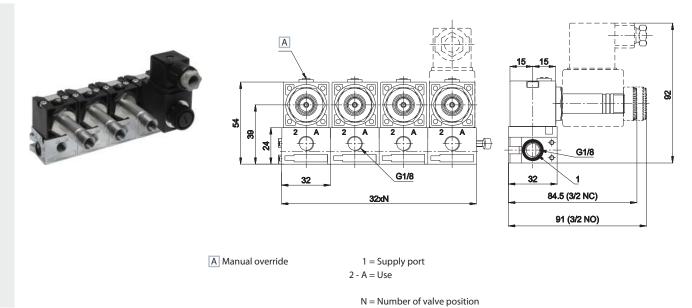


U2 G1/8 Sub-base



N = Number of valve position

U2 G1/8 CNOMO Sub-base



1_24