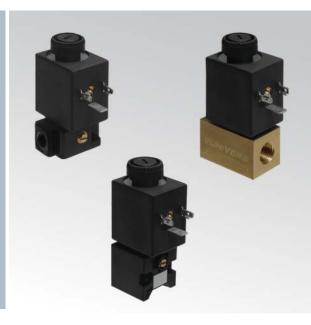


AB

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 ÷ 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	100 ÷ 155	95 ÷ 650	92 ÷ 110

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
Power consumption Connector	11W (DC) - 10 VA (A AM 51

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

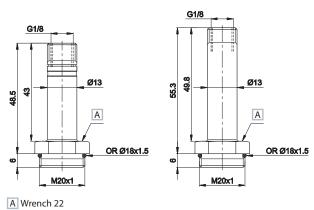
3/2 NO 3/2 NC 2/2 NC (a) 2/2 NC

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

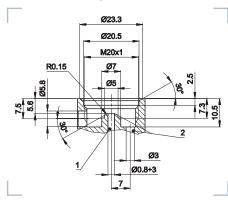
Upon request viton seals and stainless steel sleeves (only NC options)







■ 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 NC	technopolymer	U2	AM-5212A
2 = radial exhausts	3/2 NO	technopolymer	U2	AM-5214A
3 = open exhausts	2/2 NC	brass	U2	AM-5212B

In order to convey exhausts, use version 3

Ø15.8 Ø22

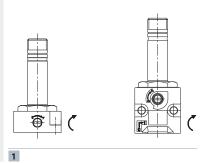




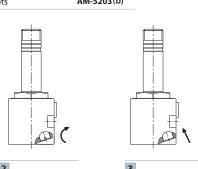
3

Standard manual overrides with electropilots

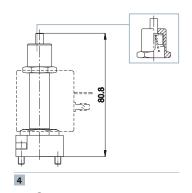
Functionig	Suitable for sleeves	Symbol/Part no.
1 = with 2 position screw	all NC U2 electropilots that can use manual override	Θ
 2 = with impulse 1-2 position screw 3 = with button with tool 4 = with button, 1 position 	only CNOMO NC U2 electropilots only CNOMO NC U2 electropilots U2 NO 3/2 electropilots	⊖ → 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



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

Weight (Kg): 0,125

Symbol	Ø (d)	Flow rat	te (NI/min)	Times	s (ms)	Manual	Part no.
	mm	1→2	2 →3	En.	De-en.	override	
7 T W	2,4	150	160	13	10	_	AB-0681
### *** *** *** *** *** *** *** *** ***	2,4	150	160	13	10	Θ	AB-0687
2 1 W	2,1	130	-	13	-	_	AB-0722
# ** ** ** ** ** ** ** ** ** ** ** ** **	2,1	130	-	13	-	Θ	AB-0728
7 T T W	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

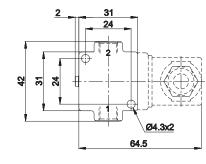
U2 2/2 - 3/2 G1/8 Electropilot

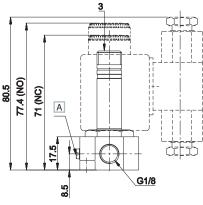


Material:	
valve body	zamak
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber

Weight (Kg):	0,145
--------------	-------

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 T	2,4	155	210	13	10	_	AB-0751
, , , , , , , , , , , , , , , , , , ,	2,4	155	210	13	10	Θ	AB-0757
2 1 W	2,1	155	-	12	-	_	AB-0765
2 1 W	2,1	155	-	12	-	Θ	AB-0771
7 7 T W	2,4	100	150	14	11	(e)	AB-0755
Available upon r	equest: sta	ainless 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



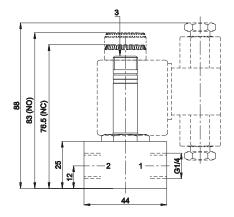
Material:	
valve body	brass\
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber

Weight (Kg): 0,225

Symbol	Ø (d)	Flow rat	te (NI/min)	Times	(ms)	Manual	Part no.
	mm	1 → 2	2 → 3	Ecc.	Dis.	override	
7 T W	2,1	200	210	13	11	_	AB-0822
7 7 T	2,1	95	160	12	10	(e)	AB-0819

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

M6x7 8 8 9 15.5 72.5



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

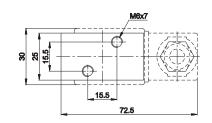
Part no.

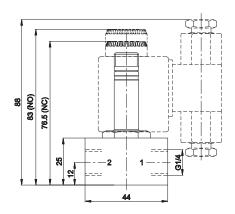
Times (ms)

	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
2 1 W	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

Ø (d) Flow rate Pressure

Suitable for use with non-aggressive liquids.





1 = Supply port

2 = Use



Coil U2 - 17 VA

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

3/2 NC

2/2 NC

3/2 NO (c)

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



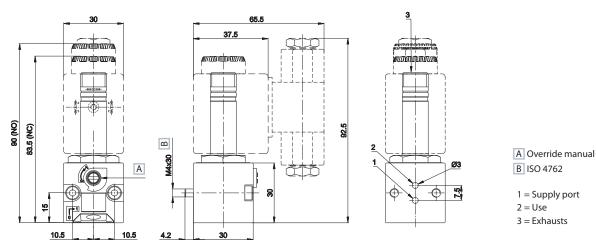
Material:	
valve body	technopolymer
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber

0,155

Weight (Kg):

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
7 P T T W	2,4	92	148	13	10	(e)	AB-0888

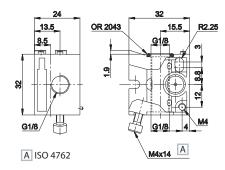
Sub-base: SPEED U2. Available upon request: brass valve body (without manual override). Zamak valve body. Stainless steel sleeve - other inner diameters.



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



Advantages

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

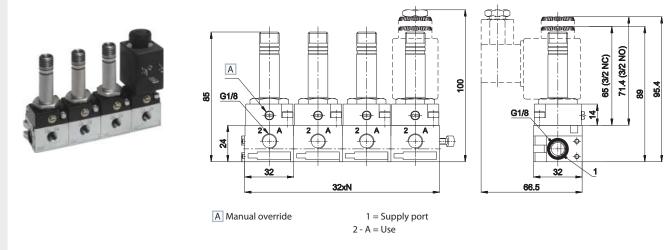
When assembling the manifold, put the bases on a flat surface and tighten the screw until the manifold is perfecty aligned. $\frac{1}{2} \int_{\mathbb{R}^{n}} \frac{1}{2} \int_{\mathbb{R}^{n}} \frac{1}{2}$

(c) = close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one (d) = the \emptyset shown on the 3/2 valves refers to the exhaust \bigcirc = with 2 position screw (e) = manual override on ring nut AM-5203

Electropiltots are supplied without coil, connector and locking ring

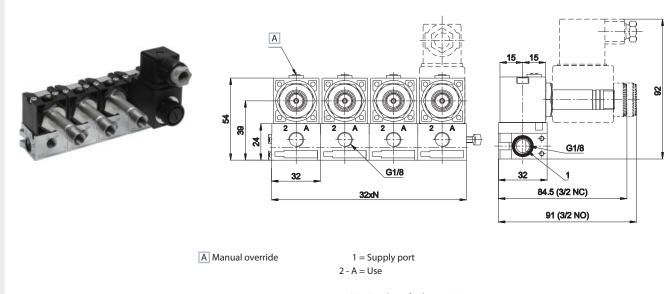


U2 G1/8 Sub-base



N = Number of valve position

U2 G1/8 CNOMO Sub-base



 $N = Number\ of\ valve\ position$