Miniature electropilots

- 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

Fluid	10 µm filtered air, with or without lubrication; neutral gases (versions for different fluids available upon request)			
Ambient temperature	-10 ÷ +50 °C			
Fluid temperature	Max +95 °C			
Commutation system	direct intervention poppet with cushioned seals			
Way/Positions	2/2 NC, 3/2 NC 3/2 NO a mechanism designed to ensure that air is always drawn in from the body			
Pressure	2/2NC - 3/2 NC = 0 ÷ 10 3/2 NO = 3 ÷ 10			
Control	eletric			
Return	mechanical spring			
Connections	on sub-base / threaded on the body			
	sub-base	G 1/8	G 1/4	CNOMO
Nominal Ø (mm)	2,1 ÷ 2,4	2,1 ÷ 2,4	1,6 ÷ 6	2,1 ÷ 2,4
Nominal flow rate (Nl/min)	92 ÷ 150	100 ÷ 150	95 ÷ 650	92 ÷ 110
Coil	U2			
Absorption	DB			
Power consumption	11 W (DC) - 10 VA (AC)			
Voltage	12 V DC - 24 V DC - 24 V AC - 110 V AC - 230 V AC			
Protection degree	IP65			

Reference Standard

II 2G Ex h IIC T5 Gb

II 2D Ex h IIIC T100°C Db

II 3 GD c nA II T5 -10 °C ≤ Ta ≤ 45°C IP65

Key

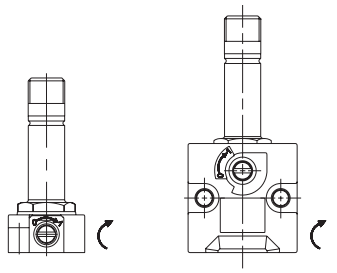
Screwdriver adjustment

Button on the ring nut

Pressure applied with a tool

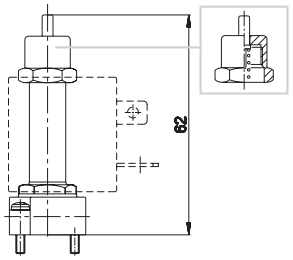
MANUAL CONTROL STANDARD

2-POSITION SCREWDRIVER



all NC servo drives where manual intervention is required

BUTTON ON THE BEZEL

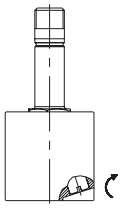


3/2 NO solenoid valves

MANUAL CONTROLS ON REQUEST

1–2-POSITION SCREWDRIVER

LETTER TO BE ADDED AT THE END OF THE ELECTROPILOT CODE

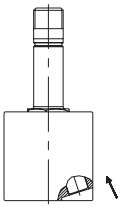


A

EXAMPLE::
AB-0886A

CNOMO NC electric actuators only

PRESSURE-OPERATED WITH TOOL

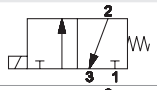
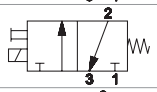
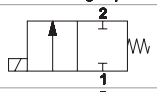
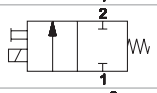
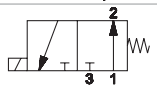


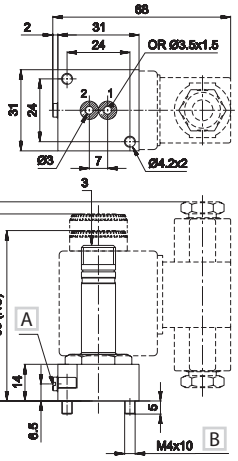
U

EXAMPLE:
AB-0886U

CNOMO NC electric actuators only

ELECTRIC PILOT VALVE AB FOR MOUNTING ON CNOMO BASE

Code	Way	Ø mm	Flow rate (Nl/min) 1 → 2	2 → 3	Resp. Time (ms) En.	De-en	Manual override	Weight kg	
AB-0681	3/2 NC	2,4	150	160	13	10	-	0,12	
AB-0687	3/2 NC	2,4	150	160	13	10		0,12	
AB-0722	2/2 NC	2,1	130	-	13	-	-	0,12	
AB-0728	2/2 NC	2,1	130	-	13	-		0,12	
AB-0685	3/2 NO	2,4	92	148	14	10		0,13	



A Manual override

B ISO 4762

1 = Supply port

2 = Use

3 = Exhaust

Material:

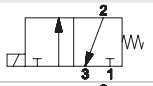
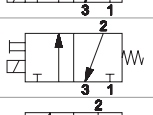
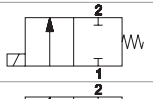
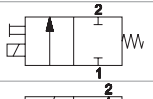
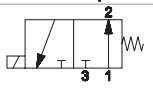
valve body	zamak
sleeve	Treated brass
core and spring	Stainless steel
seals	NBR

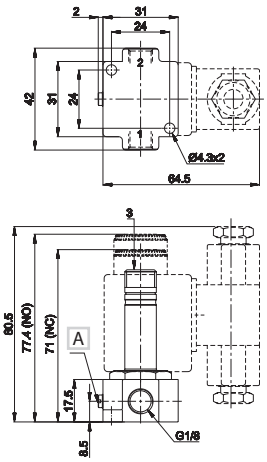
Sub-base: SPEED AB.

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

Close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one

ELECTROPILOT AB THREAD G1/8

Code	Way	Ø mm	Flow rate (Nl/min) 1 → 2	2 → 3	Resp. Time (ms) En.	De-en	Manual override	Weight kg	
AB-0751	3/2 NC	2,4	155	210	13	10	-	0,14	
AB-0757	3/2 NC	2,4	155	210	13	10		0,14	
AB-0765	2/2 NC	2,1	155	-	12	-	-	0,14	
AB-0771	2/2 NC	2,1	155	-	12	-		0,14	
AB-0755	3/2 NO	2,4	100	150	14	14		0,15	



A Manual override

1 = Supply port

2 = Use

3 = Exhaust

Material:

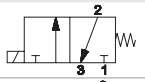
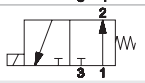
valve body	zamak
sleeve	Treated brass
core and spring	Stainless steel
seals	NBR

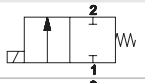
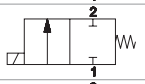
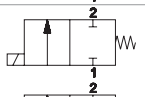
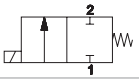
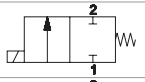
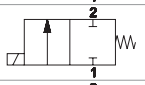
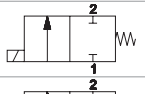
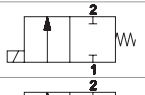
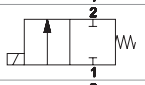
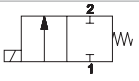
Available upon request: stainless steel sleeve - other inner diameters.

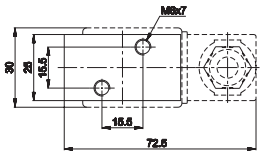
Close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one

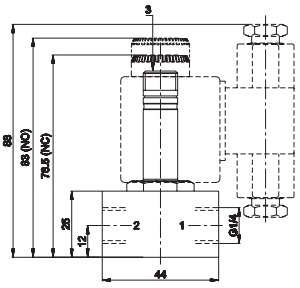
Electropilots are supplied without coil and connector

ELECTROPILOT AB THREAD G1/4

Code	Way	Ø mm	Flow rate (Nl/min) 1 → 2	Flow rate (Nl/min) 2 → 3	Resp. Time (ms) En.	Resp. Time (ms) De-en	Manual override	Weight kg	
AB-0822	3/2 NC	2,1	200	210	13	11	-	0,22	
AB-0819	3/2 NO	2,1	95	160	12	10		0,23	

Code	Vie	Ø mm	Flow rate Nl/min	Pressure bar	Resp. Time (ms) En.	Resp. Time (ms) De-en	Manual override	Weight kg	
AB-0824	2/2 NC	1,6	108	0÷30	6	-	-	0,23	
AB-0825	2/2 NC	2	165	0÷20	9	-	-	0,23	
AB-0826	2/2 NC	2,4	210	0÷15	11	-	-	0,23	
AB-0827	2/2 NC	3	280	0÷10	12	-	-	0,23	
AB-0828	2/2 NC	3,5	350	0÷9	-	10	-	0,23	
AB-0829	2/2 NC	4	450	0÷8	-	13	-	0,23	
AB-0830	2/2 NC	4,5	500	0÷7	-	13	-	0,23	
AB-0831	2/2 NC	5	550	0÷6,5	-	16	-	0,23	
AB-0832	2/2 NC	5,5	600	0÷6	-	21	-	0,23	
AB-0833	2/2 NC	6	650	0÷5	-	29	-	0,23	





1 = Supply port

2 = Use

3 = Exhaust

Material:

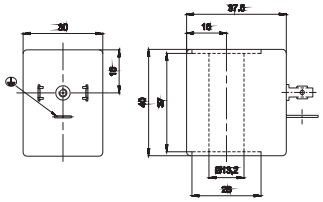
valve body	zamak
sleeve	Treated brass
core and spring	Stainless steel
seals	NBR

Suitable for intercepting non-aggressive liquids.

Upon request: stainless steel body and sleeve.

Close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one

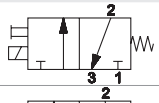
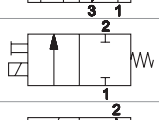
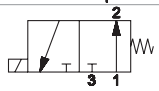
COILS U2 - 17 VA FOR ELECTROPILOTS G1/4

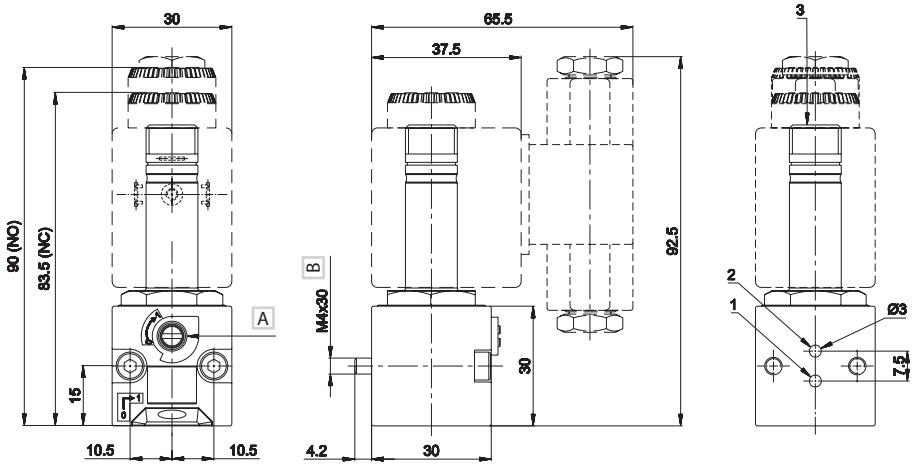


Code	Duty cycle ED(a) %	Power consumption W Hold	Power consumption W Inrush	Tension tolerance %	Rated voltage	Weight Kg
DB-0607	100	-	17 VA (Max)	±10	24V AC - 50/60 Hz	0,06
DB-0608	100	-	17 VA (Max)	±10	110V AC - 50/60 Hz	0,06
DB-0610	100	-	17 VA (Max)	±10	220V AC - 50/60 Hz	0,06

Electropilots are supplied without coil and connector

AB PILOT SOLENOID VALVE FOR CNOMO BASE MOUNTING

Code	Way	Ø mm	Flow rate (Nl/min) 1 → 2	Flow rate (Nl/min) 2 → 3	Resp. Time (ms) En.	Resp. Time (ms) De-en	Manual override	Weight kg	
AB-0885	3/2 NC	2,4	110	170	13	12		0,08	
AB-0886	2/2 NC	2,1	115	-	12	-		0,08	
AB-0888	3/2 NO	2,4	92	148	13	10		0,09	



A Manual override

B ISO 4762

1 = Supply port

2 = Use

3 = Exhaust

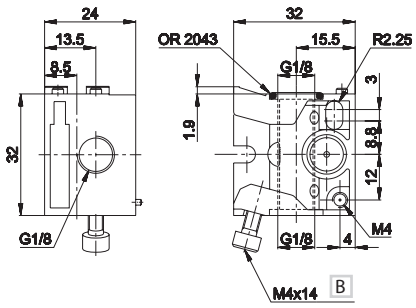
Material:

valve body	Technopolymer
sleeve	Treated brass
core and spring	Stainless steel
seals	NBR

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

MODULAR SUB-BASE, CNOMO SERIES, G1/8

Code	Electropilot	Connections	Material	Weight kg
AB-0900	CNOMO	G 1/8	zama	0,075



B ISO 4762

Advantages

The original UNIVER CNOMO series was realized to solve some operational problems

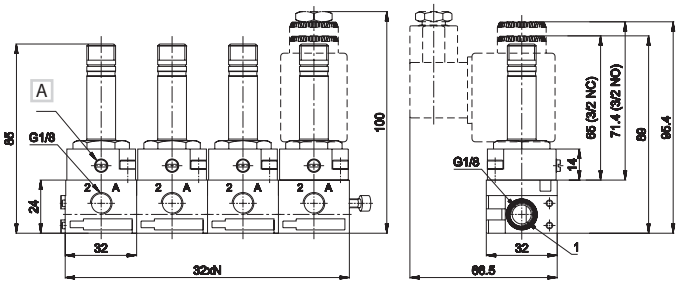
- Possibility of defining the number of sube-bases at the moment of use
- Possibility of freely increasing or reducing the number of elements
- Quick assembly with special screw (built-in) standard supplied
- Reduction of stock holding
- Easy technical intervention

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 perfectly aligned.

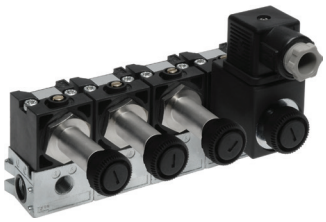
Electropilots are supplied without coil and connector

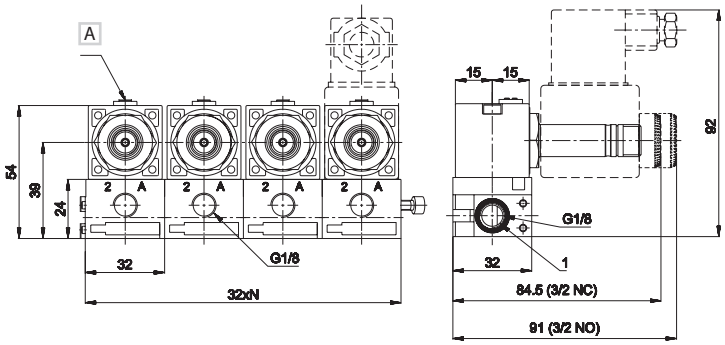
SUB-BASE: EXAMPLE OF USE OF SPEED G1/8 WITH AB PILOT



A Manual override
1 = Supply port
2 - A = Use
N = Number of valve position

SUBBASE: EXAMPLE OF USE OF SPEED CNOMO WITH AB PILOT



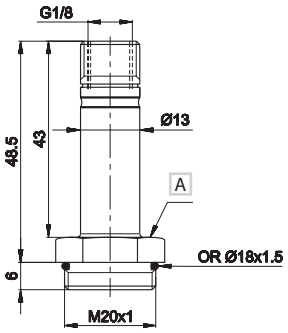


A Manual override
1 = Supply port
2 - A = Use
N = Number of valve position

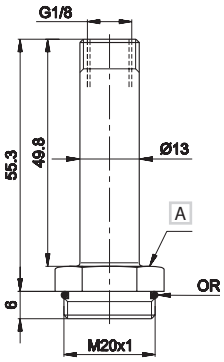
SLEEVES AB

Code	Way	Ø Exhaust mm	Pressure bar	Weight kg
AB-0600	3/2 NO	2,4	3÷10	0,06
AB-0613	3/2 NC	2,4	0÷10	0,05
AB-0640	2/2 NC	-	0÷10	0,06
AB-0643	2/2 NC	For bases with Ø da 3÷6	0÷10	0,06

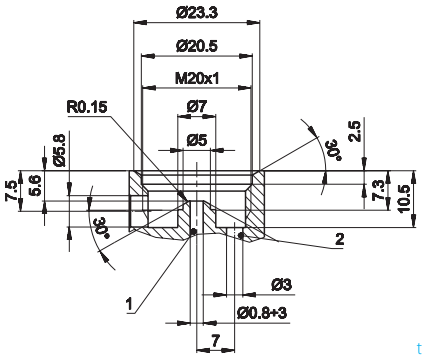
NC



NO



DETAIL OF MACHINING



C Wrench 22
1 = Supply port
2 = Use

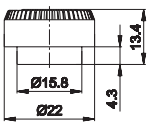
Material:	
Sleeve	treated brass
Cores and spring	stainless steel
Seals	NBR

t FKM seals and stainless steel tubes available on request (NC version only)

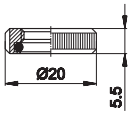
LOCKING RINGS FOR COILS ON SLEEVES

Code	Way	Version	Material	Coil
AM-5212A	3/2 NC	radial exhausts	technopolymer	Serie U2
AM-5212B	2/2 NC	open exhausts	brass	Serie U2
AM-5214A	3/2 NO	radial exhausts	technopolymer	Serie U2

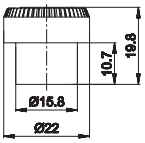
3/2 NC



2/2 NC



3/2 NO

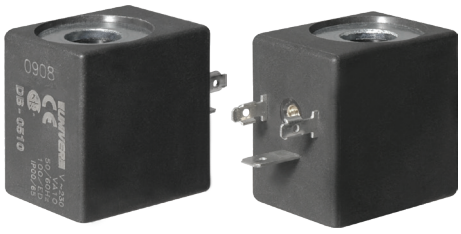


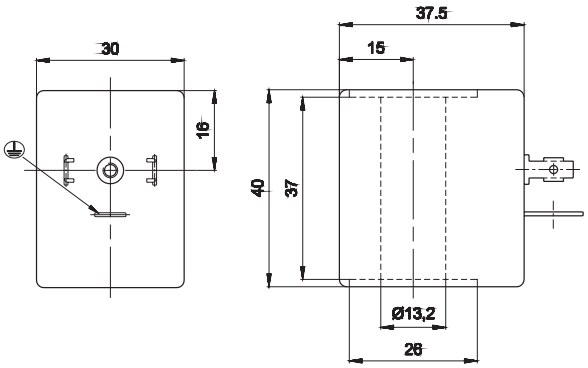
COILS

Omologazione CSA/UL

Possibility of replacement without intervention in the pneumatic circuit
Other voltages available upon request
360° rotation on the pilot. Coil winding: H class
Ambient temperature: -10 ÷ +45 °C. Fluid temperature: -10 ÷ +95 °C.
The solenoid valves functioning with 100V-230V must be incorporated (EN60204-1)
Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated.
Protection class IP65, if used with connector.

U2 30 MM COIL

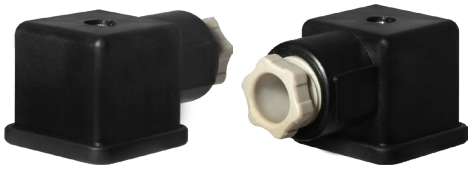


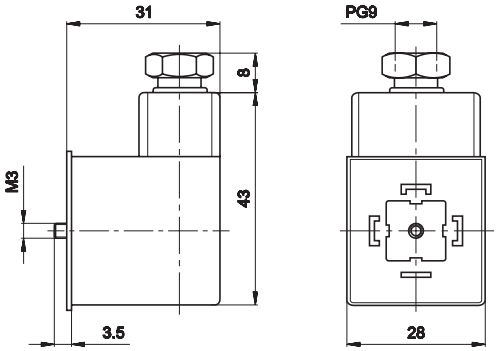


Code	Duty cycle ED(a) %	Power consumption W		Tension tolerance %	Rated voltage	Weight Kg
		Hold	Inrush			
DB-0501	100	11	11	±10	12 V DC	0,06
DB-0502	100	11	11	±10	24 V DC	0,06
DB-0507	100	10 VA (Max)	16 VA (Max)	±10	24 V AC/50-60 HZ	0,06
DB-0509	100	10 VA (Max)	16 VA (Max)	±10	110 V AC/50-60 HZ	0,06
DB-0510	100	10 VA (Max)	16 VA (Max)	±10	230 V AC/50-60 HZ	0,06

(a) = 110V - 230V solenoid valves must be built-in (EN-60204-1)
Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated

DIN 43650 CONNECTOR FOR SERIES U2/U3





Code	Series coils	Protection rating	Cable connection	Guidance
AM-5111	U2	IP65	PG9	360°

LED available upon request.

Electropilots are supplied without coil and connector