

Valves Series

Solenoid Valves



01V

Pg. 18.3

Inox Solenoid Valves



X1V

Pg. 18.42

Solenoid Valves



07V

Pg. 18.50

Namur Solenoid Valves



08V

Pg. 18.53

Miniature Electropilots U1



AA

Pg. 18.60

Universal Valves G1/8 - G1/4



CL - CM

Pg. 18.67

Rotary Hand Lever Valves



12V

Pg. 18.96

Micro Valves



AI JET

Pg. 18.99

Micro Valves



AI JET2

Pg. 18.104

16mm Valves - Mechanical and Manual Operators



CH

Pg. 18.107

Pedal Valves



AM

Pg. 18.110

FIELDBUS Valves Series

Fieldbus Electropneumatic Valves



16V

Pg. 18.114

Fieldbus Electropneumatic Valves



17V

Pg. 18.121

ISO Valves Series

Valves ISO 5599 - Size 1 - 2 - 3 - 4



BE

Pg. 18.156

COILS & CONNECTORS Series

Solenoid and Connectors



Coils & Connectors

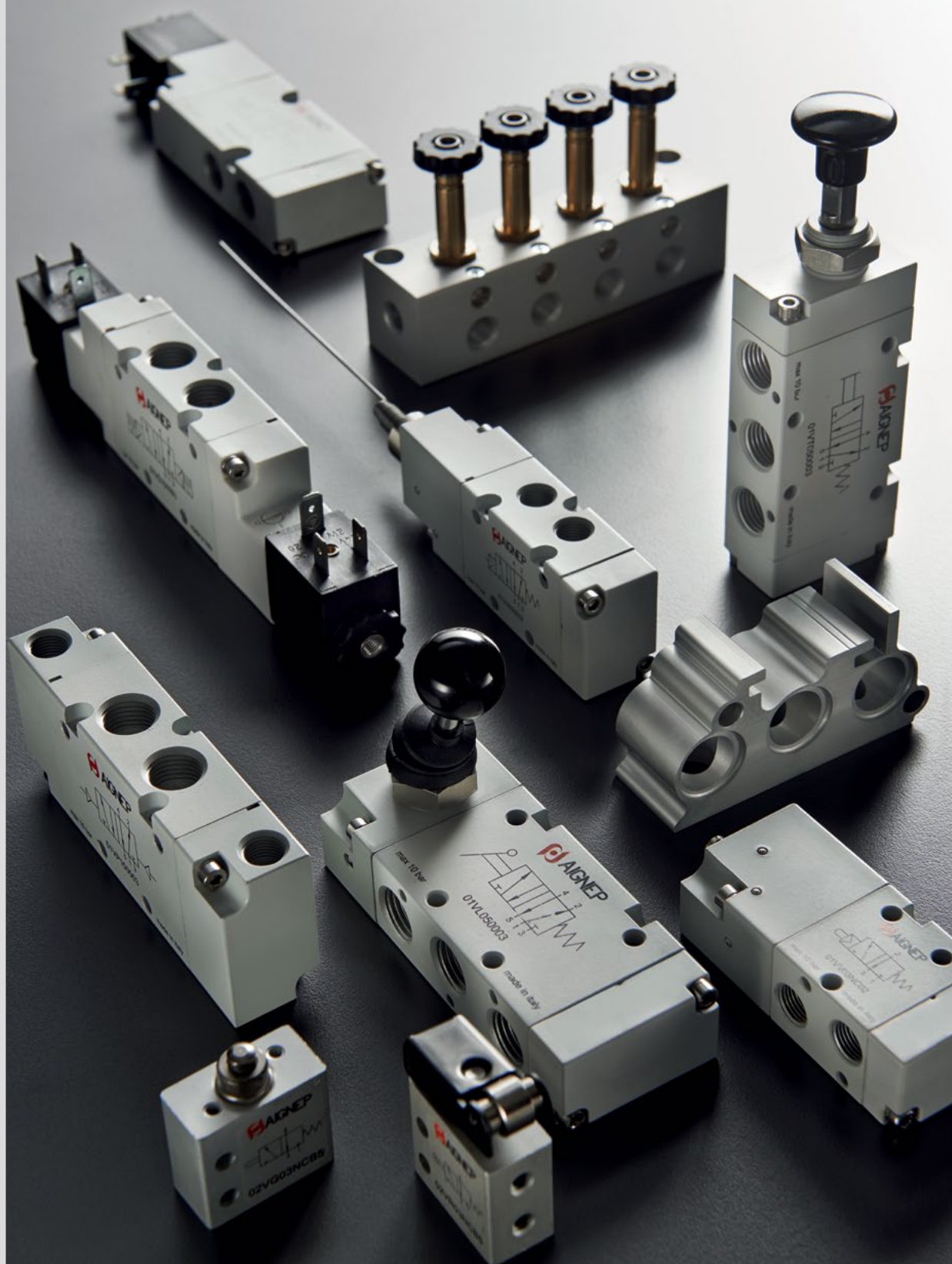
Pg. 18.169

Click here to view the **Valves Series** on our Website



MANUAL, PNEUMATIC, SOLENOID PILOT,
FIELDBUS AND ISO VALVES

Valves Series



SERIES AA - MINIATURE ELECTROPILOTS



Miniature electropilots

- 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



Fluid 50 µm filtered air, with or without lubrication; neutral gases (upon request other fluids can be used)

Ambient temperature +14 ÷ +122 °F

Fluid temperature Max +203 °F

Commutation system direct intervention poppet valve system with cushioned seals

Way/Positions 2/2 NC, 3/2 NC
3/2 NO
Mechanism designed to keep the air inlet always through the body.

Pressure 2/2NC - 3/2 NC = 0 ÷ 10
3/2 NO = 3 ÷ 10

Control electric

Return mechanical spring

Connections on sub-base or with threaded connections on the body

sub-base **CNOMO**

Nominal Ø (mm) 1,2 ÷ 1,5 1,2 ÷ 1,5

Nominal flow rate (NI/min) 30 ÷ 60 33 ÷ 45

Coil U1 U3

UDA UDC

Power consumption 3,5 W (DC) - 5 VA (AC) 2,5 W (DC) - 3,3 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





Key



Screwdriver adjustment



Button on the ring nut

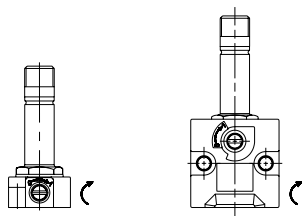


Pressure applied with a tool

MANUAL CONTROL STANDARD



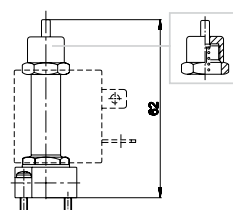
2-POSITION SCREWDRIVER



all NC servo drives where manual intervention is required



BUTTON ON THE BEZEL

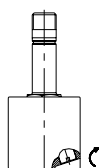


3/2 NO solenoid valves

MANUAL CONTROLS ON REQUEST



1-2-POSITION SCREWDRIVER



LETTER TO BE ADDED AT THE END OF THE ELECTROPILOT CODE

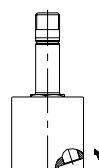
A

EXAMPLE:
UAB 0886 A

CNOMO NC electric actuators only



PRESSURE-OPERATED WITH TOOL

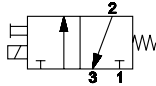
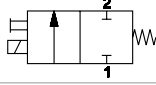
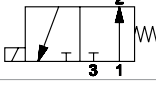


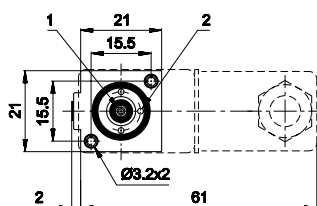
U

EXAMPLE:
UAB 0886 U

CNOMO NC electric actuators only

AA ELECTRIC ACTUATOR FOR MOUNTING ON AN SPEED BASE

	Code	Way	Ø (d) inch (mm)	Flow rate (Nl/min)		Resp. Time (ms)		Manual override	Weight lb (kg)	
				1 → 2	2 → 3	En.	De-en			
	UAA 0184	3/2 NC	.059 (1.5)	60	80	12	12		0.06 (0.027)	
	UAA 0186	2/2 NC	.051 (1.3)	50	-	16	-		0.06 (0.027)	
	UAA 0188	3/2 NO	.047 (1.2)	30	70	11	10		0.07 (0.030)	



A Manual override

1 = Supply port

2 = Use

3 = Exhaust

Material:

valve body Technopolymer

sleeve Treated brass

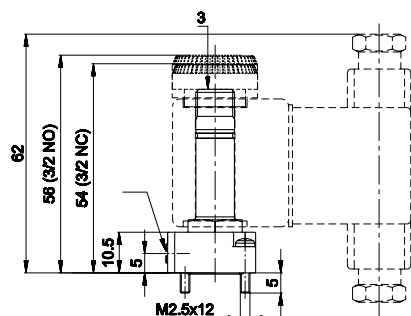
core and spring Stainless steel

seals NBR

Use SPEED subbase to build Manifolds.

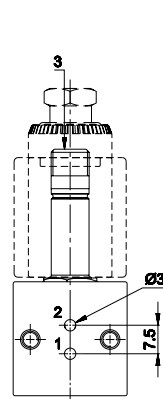
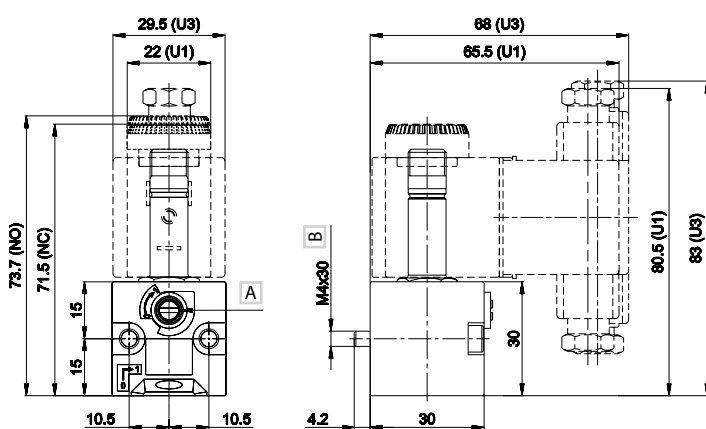
Available upon request: brass valve body (without manual override), zamak valve body, stainless steel sleeve, other inner diameters.

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



AA ELECTRIC PILOT FOR FITTING TO A CROMO BASE

Code	Way	Ø (d) inch (mm)	Flow rate (NI/min)		Resp. Time (ms)		Manual override	Weight lb (kg)	
			1 → 2	2 → 3	En.	De-en			
UAA 0400	3/2 NC	.059 (1.5)	45	77	12	12		0.11 (0.052)	
UAA 0400U	3/2 NC	.059 (1.5)	45	77	12	12		0.11 (0.052)	
UAA 0402	2/2 NC	.051 (1.3)	42	-	18	-		0.11 (0.052)	
UAA 0404	3/2 NO	.047 (1.2)	33	77	11	10		0.13 (0.060)	



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.

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

Electropilots are supplied without coil and connector

	Code	Electropilot	Connections	Material	Weight lb (kg)
	UAA 0450	SPEED	G 1/8	zamak	0.08 (0.037)
	UAB 0900	CNOMO	G 1/8	zamak	0.17 (0.075)

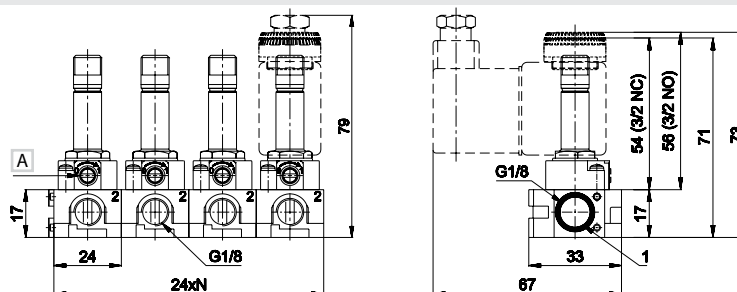
[illegible]

- 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

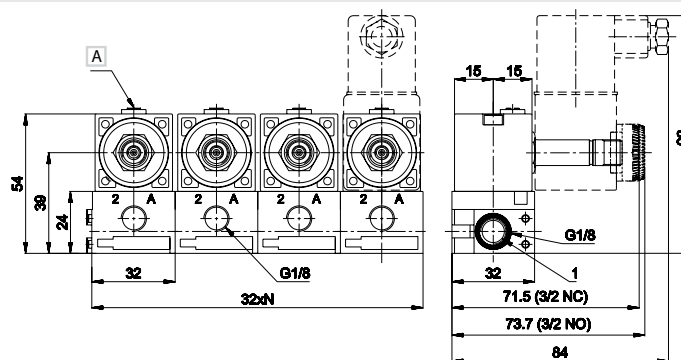
Air supply is rotated by 90° in comparison with side consumption
Standard (built-in) screw and O-Ring

[illegible]

When assembling the manifold, put the bases on a flat surface and tighten the screw until the manifold is perfectly aligned.



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



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

18.63

SLEEVES AA

	Code	Way	Ø Exhaust inch (mm)	Pressure psi (bar)	Weight lb (kg)
	UAA 0157	3/2 NC	.059 (1.5)	0 ÷ 145 (0 ÷ 10)	0.05 (0.022)
	UAA 0170	2/2 NC	-	0 ÷ 145 (0 ÷ 10)	0.05 (0.022)
	UAA 0150	3/2 NO	.047 (1.2)	44 ÷ 145 (3 ÷ 10)	0.05 (0.024)

NC

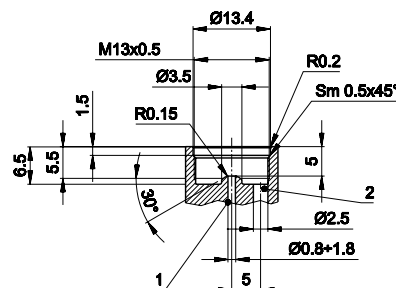
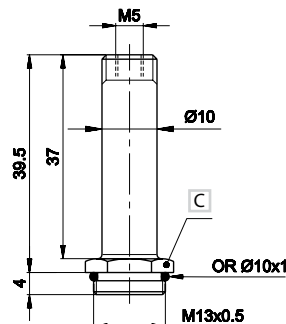
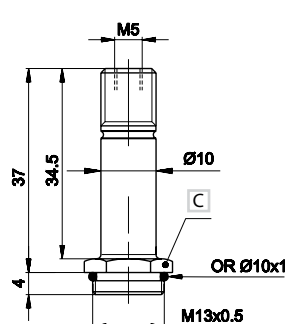
NO

DETAIL OF MACHINING

C Wrench 14

1 = Supply port

2 = Use



Material:

Sleeve treated brass

Cores and spring stainless steel

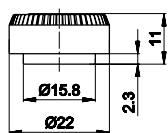
Seals NBR

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

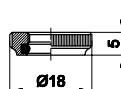
LOCKING RINGS FOR COILS ON SLEEVES

	Code	Way	Version	Material	Coil
	UAM 5211A	3/2 NC	= radial exhausts	technopolymer	Series U1
	UAM 5211B	2/2 NC	= radial exhausts	technopolymer	Series U1
	UAM 5213A	3/2 NO	= open exhausts	brass	Series U1

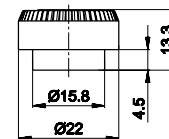
3/2 NC



2/2 NC



3/2 NO



COILS

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: +14 ÷ +113 °F. Fluid temperature: +14 ÷ +203 °F.

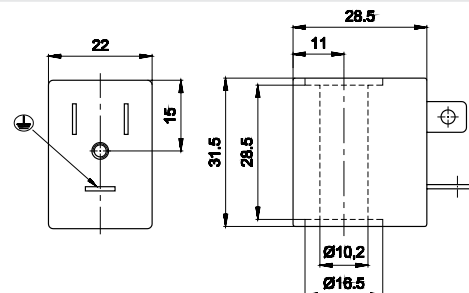
The solenoid valves functioning with 100V-230V must be incorporated (EN60204-1)

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.



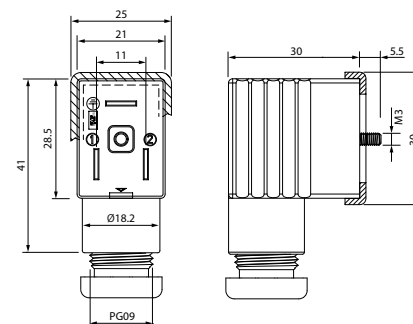
U1 22 MM COIL



22 mm

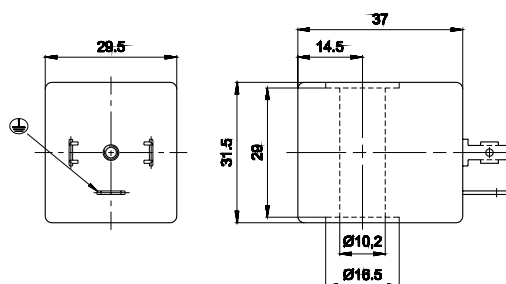
10 mm

Code	Duty cycle ED (a) %	Power consumption W		Tolerance tension %	Rated voltage	Weight lb (Kg)
		Hold	Inrush			
UDA 0050	100	3,5	3,5	±10	12 V DC	0.13 (0.06)
UDA 0051	100	3,5	3,5	±10	24 V DC	0.13 (0.06)
UDA 0106	100	5,4 VA (Max)	7,8 VA (Max)	±10	24 V AC/50-60 HZ	0.13 (0.06)
UDA 0108	100	5,4 VA (Max)	7,8 VA (Max)	±10	110 V AC/50-60 HZ	0.13 (0.06)
UDA 0124	100	5,4 VA (Max)	7,8 VA (Max)	±10	230 V AC/50-60 HZ	0.13 (0.06)



Code	Size	Colour	Characteristics
* CONU1 000 01	.866 (22 mm)	BLACK	2 PINS
* CONU2 024 00	.866 (22 mm)	TRANSPARENT	LED + VDR 0 - 24V
* CONU2 110 00	.866 (22 mm)	TRANSPARENT	LED + VDR 110V
* CONU2 250 00	.866 (22 mm)	TRANSPARENT	LED + VDR 220V
*: UL 1977 AND CAN/CSA C22.2 NO. 182.3			VDR: Fitted with varistors as surge protection device.

U3 30 MM COIL



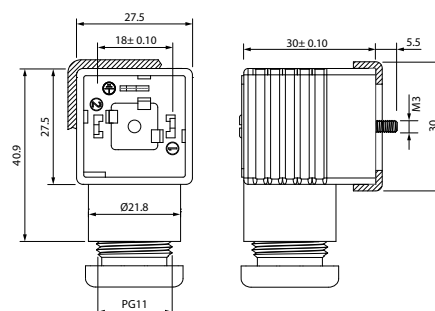
30 mm

10 mm

Code	Duty cycle ED (a) %	Power consumption W		Tolerance tension %	Rated voltage	Weight
		Hold	Inrush			
UDC 0301	100	2,5	2,5	±10	12 V DC	0.18 lb (0.08 kg)
UDC 0302	100	2,5	2,5	±10	24 V DC	0.18 lb (0.08 kg)
UDC 0307	100	3,3 VA (Max)	5 VA (Max)	±10	24 V AC/50-60 HZ	0.18 lb (0.08 kg)
UDC 0309	100	3,3 VA (Max)	5 VA (Max)	±10	110 V AC/50-60 HZ	0.18 lb (0.08 kg)
UDC 0310	100	3,3 VA (Max)	5 VA (Max)	±10	230 V AC/50-60 HZ	0.18 lb (0.08 kg)

(a) Solenoid valves operating at 110V–230V must be built-in (EN 60204-1).

In continuous operation, the operating temperature does not affect the operation of the coil, provided that the unit is installed in a well-ventilated area.



	Size	Colour	Characteristics
* CONU3 100 01	30 - 36 mm	BLACK	2 PINS
* CONU3 202 40	30 - 36 mm	TRANSPARENT	LED + VDR 0 - 24V
* CONU3 211 00	30 - 36 mm	TRANSPARENT	LED + VDR 110V
* CONU3 225 00	30 - 36 mm	TRANSPARENT	LED + VDR 220V
*: UL 1977 AND CAN/CSA C22.2 NO. 182.3			VDR: Fitted with varistors as surge protection device.