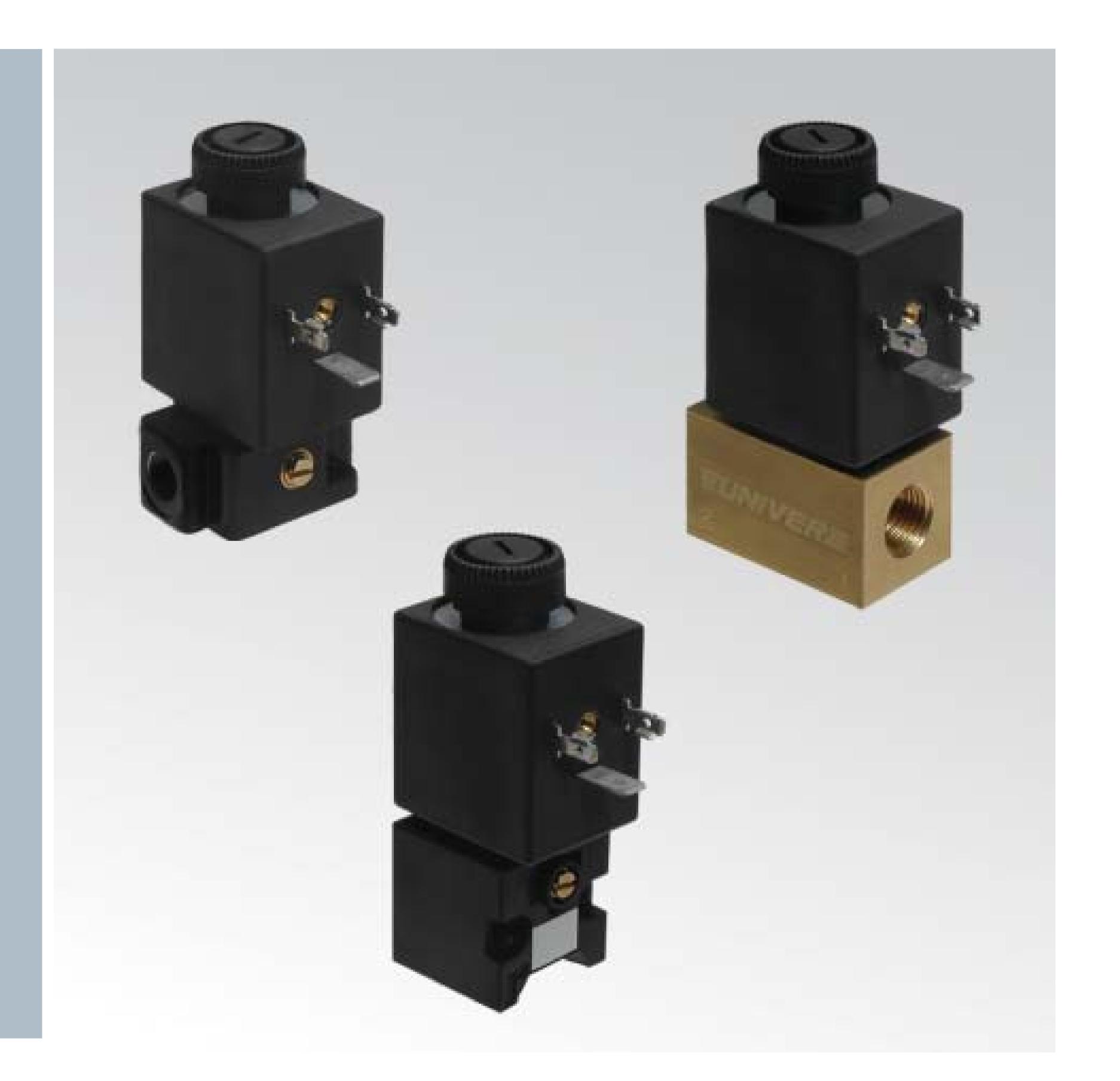


### AB

#### 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 interv	vention popp	pet valve syst	em with cus	hioned seals	
Ways/Positions				2/2 NC, 3/2 I	NC, 3/2 NO <sup>(a)</sup>	
Pressure				2/2, 3/2	$2NC = 0 \div 10$	
	$3/2 \text{ NO} = 3 \div 10$					
Control	electric					
Return				mech	anical spring	
Connections	on su	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

For other electric features see section "Accessories>Coils"

(a) = Mechanical part designed to keep the air supply always from the body (Useful in case of assembly of more NC-NO pilots in series to have a unique supply port)



#### U2 Sleeves - with moving core



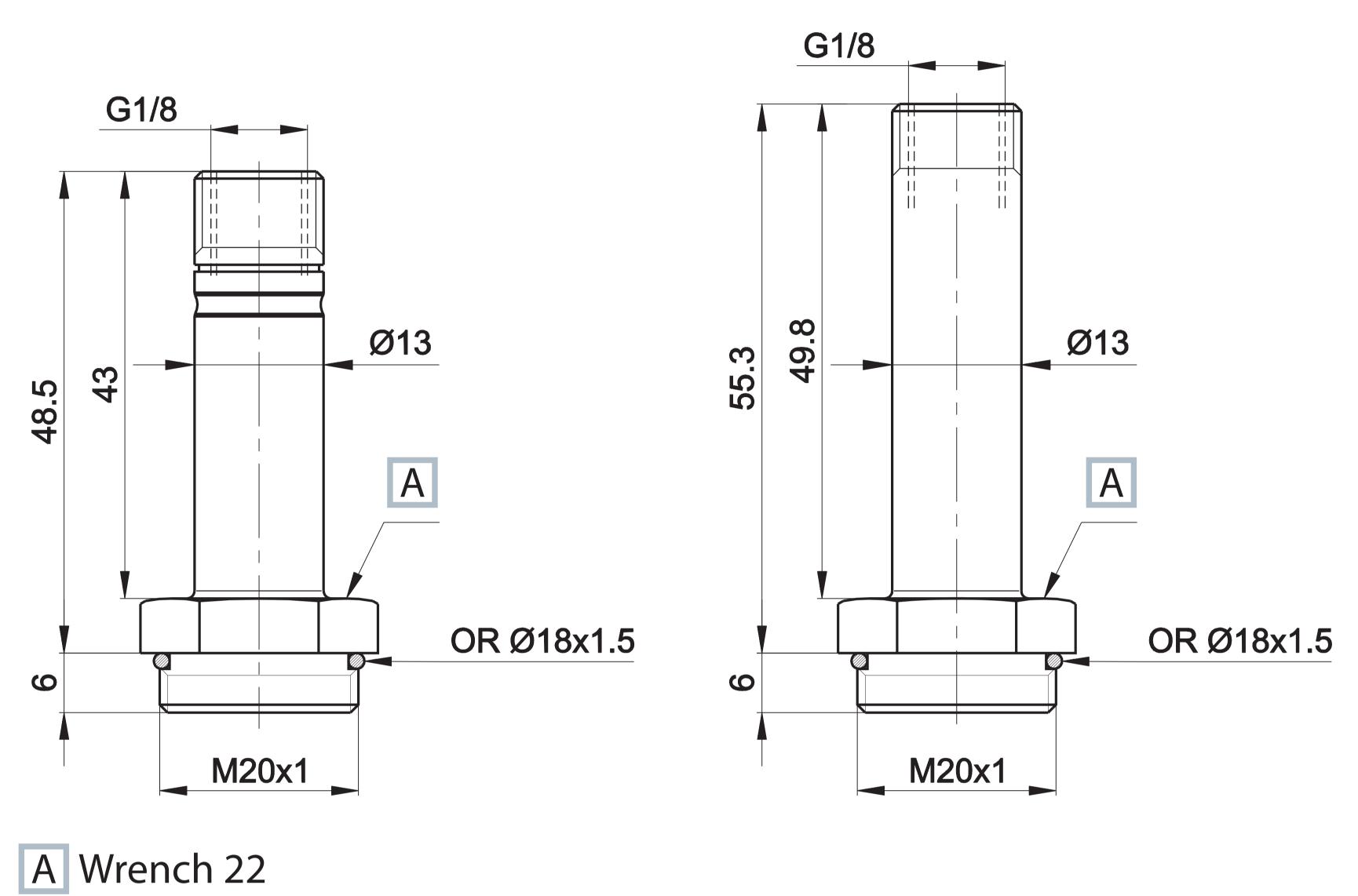
Material:	
sleeve	treated brass
cores and springs	stainless steel
seals	nitrile rubber

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

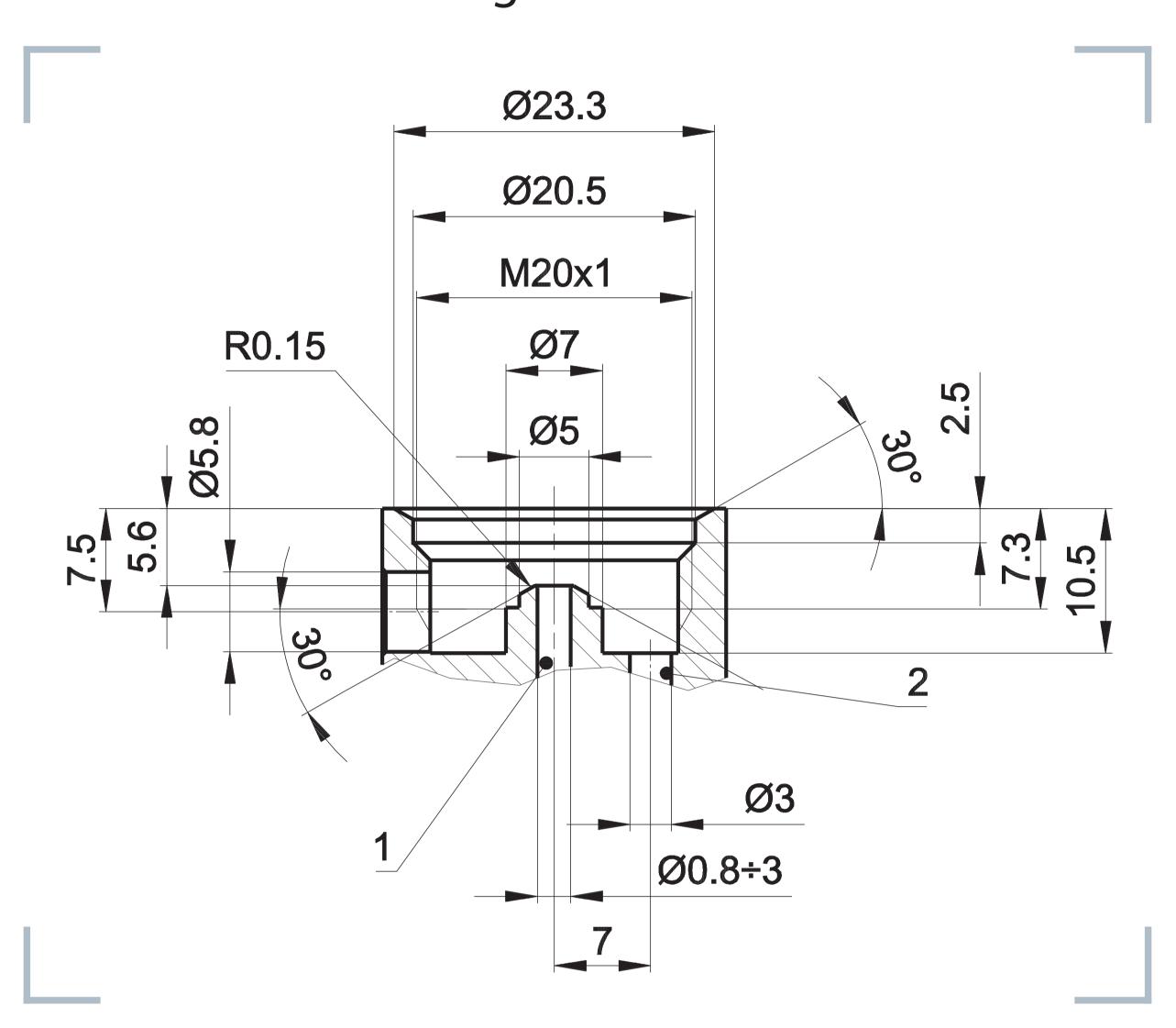
Exhaust Ø	Pressure	Weight	Part no.
mm	bar	Kg	
2,4	3÷10	0,060	<b>AB-0600</b>
2,4	0÷10	0,060	<b>AB-0613</b>
<b>-</b>	0÷10	0,060	<b>AB-0640</b>
_	0÷10	0,070	<b>AB-0643</b>

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

NO



#### Detail of machining



1 = Supply port

2 = Use

#### Locking rings for coils on sleeves



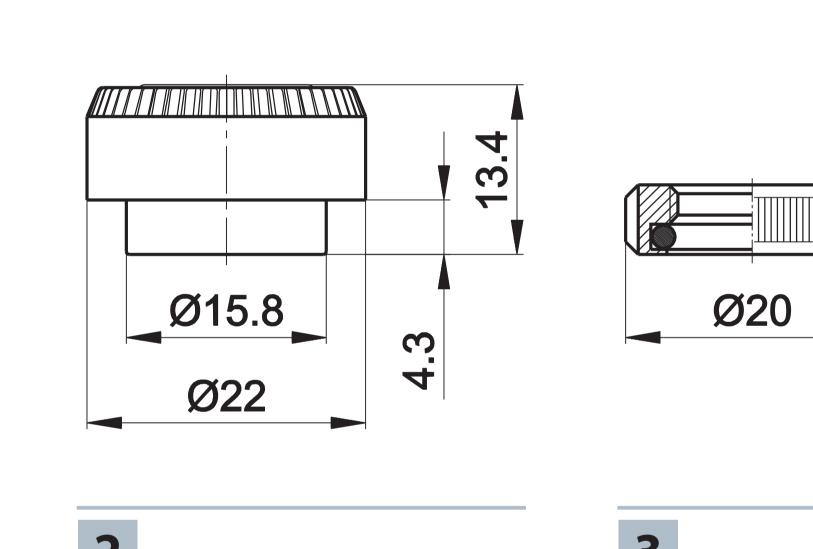




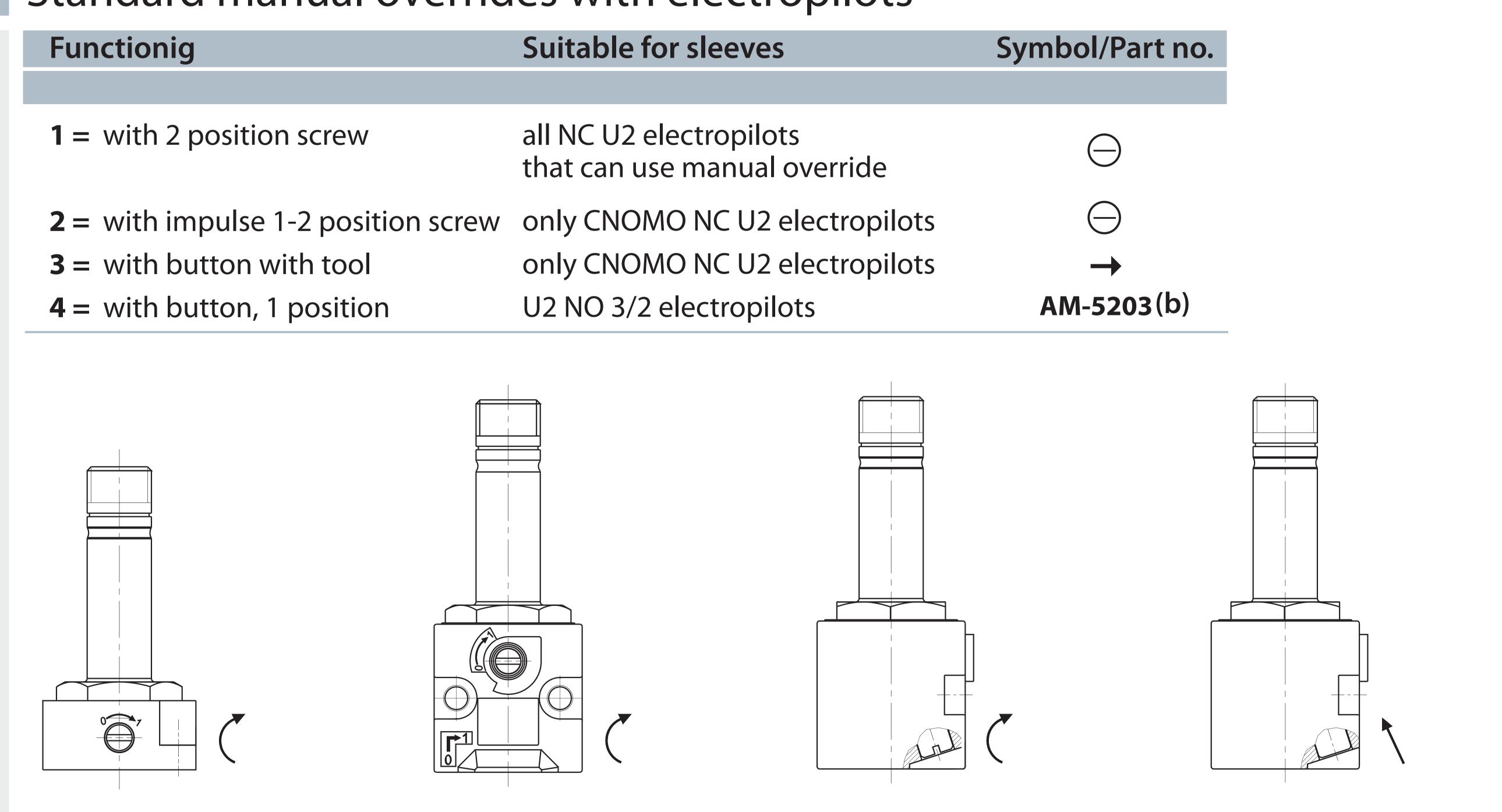
Version	Suitable for sleeves	Material	Coil	Part no.
1 = radial exhausts	3/2 NO	technopolymer	U2	AM-5214A
2 = radial exhausts	3/2 NC	technopolymer	U2	<b>AM-5212A</b>
3 = open exhausts	2/2 NC	brass	U2	AM-5212B

In order to convey exhausts, use version 3

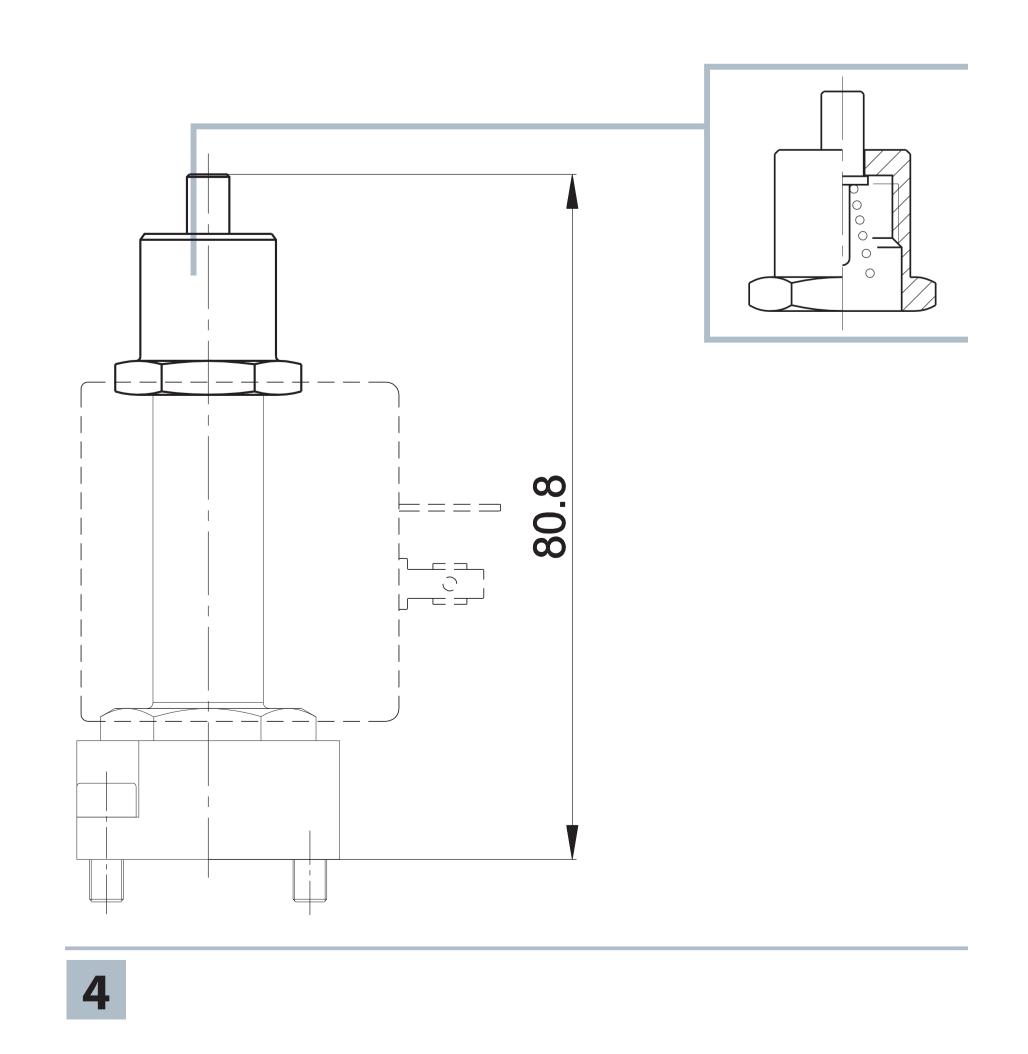
# Ø15.8 Ø22



#### Standard manual overrides with electropilots



- (a) = Suitable for sub-bases with diameter from  $3 \div 6$
- (b) = Mounted on the 3/2 NO sleeve



- $\bigcirc$  = with 2 position screw
- → = with button with tool



#### 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

3/2	NC
3/2	NC

2/2 NC

3/2 NO

3/2 NC

3/2 NC

2/2 NC

2/2 NC

3/2 NO

Symbol Part no. Flow rate (NI/min) Times (ms) Ø (d) Manual override De-en.  $1\rightarrow 2$  $2\rightarrow 3$ mm **AB-0681** 150 **AB-0687** 150 **AB-0722** 130 13 **AB-0728** (e) 2,4 **AB-0685** 148

Sub-base: SPEED U2. Available upon request: stainless steel sleeve - other inner diameters.

## 68 2 31 24 OR Ø3.5x1.5 E 70 Ø3 7 Ø4.2x2 3 W4x10 B

A Manual override
B ISO 4762

1 = Supply port

2 = Use

3 = Exhaust

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

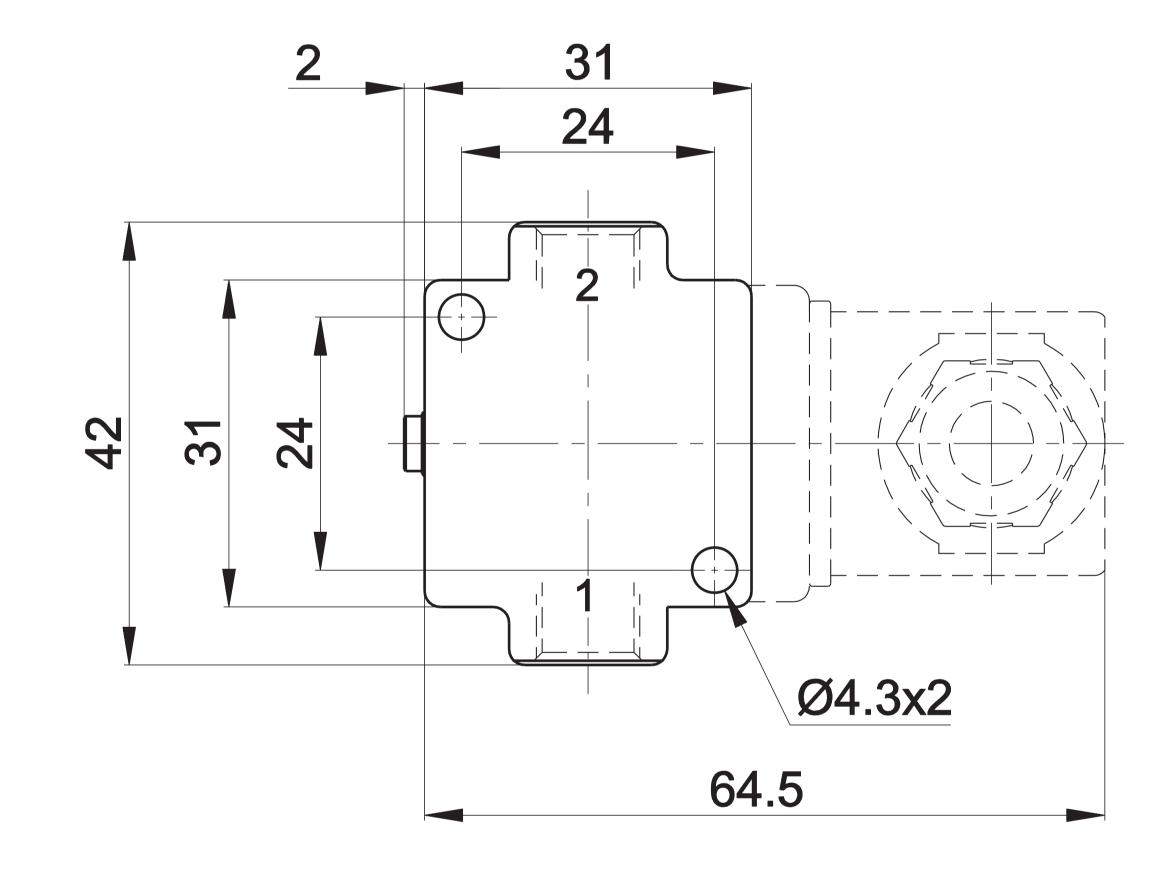


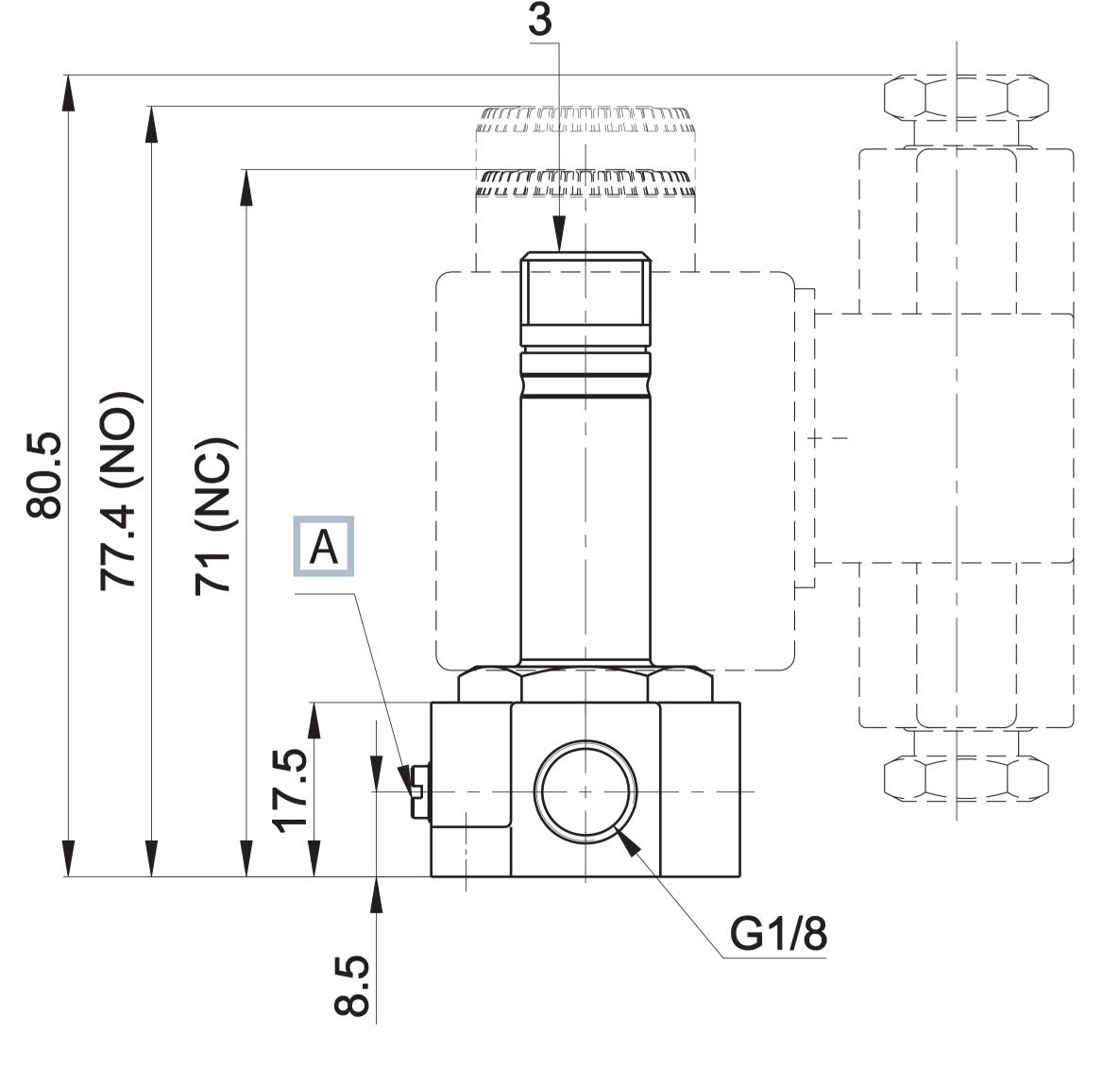
Material:	
valve body	zamak
sleeve	treated brass
core and spring	stainless steel
seals	nitrile rubber

0,145

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 7 7 7 7 3 1	2,4	155	210	13	10		AB-0751
2 ————————————————————————————————————	2,4	155	210	13	10		AB-0757
2 1	2,1	155	_	12	-		AB-0765
2 1	2,1	155	_	12	_		AB-0771
2 7 7 7 7 7 3 1	2,4	100	150	14	11	(e)	AB-0755





A Manual override

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

Electropiltots are supplied without coil, connector and locking ring

<sup>(</sup>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

<sup>(</sup>e) = manual override on AM-5203 ring nut



#### U2 3/2 G1/4 Electropilot



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

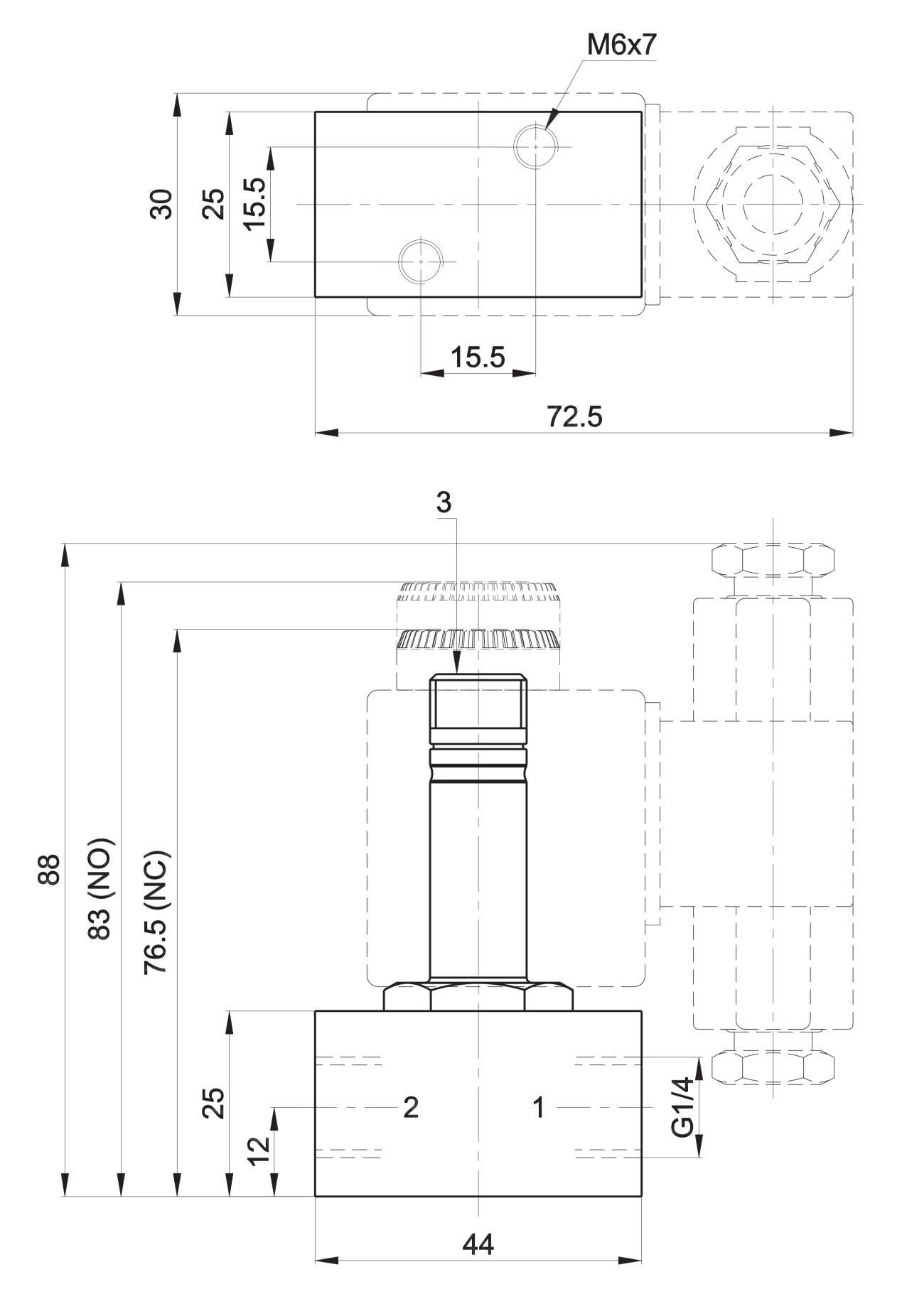
**Weight (Kg):** 0,225

3/2 NC

2/2 NC

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

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



1 = Supply port

2 = Use

3 = Exhaust

#### U2 2/2 G1/4 Electropilot



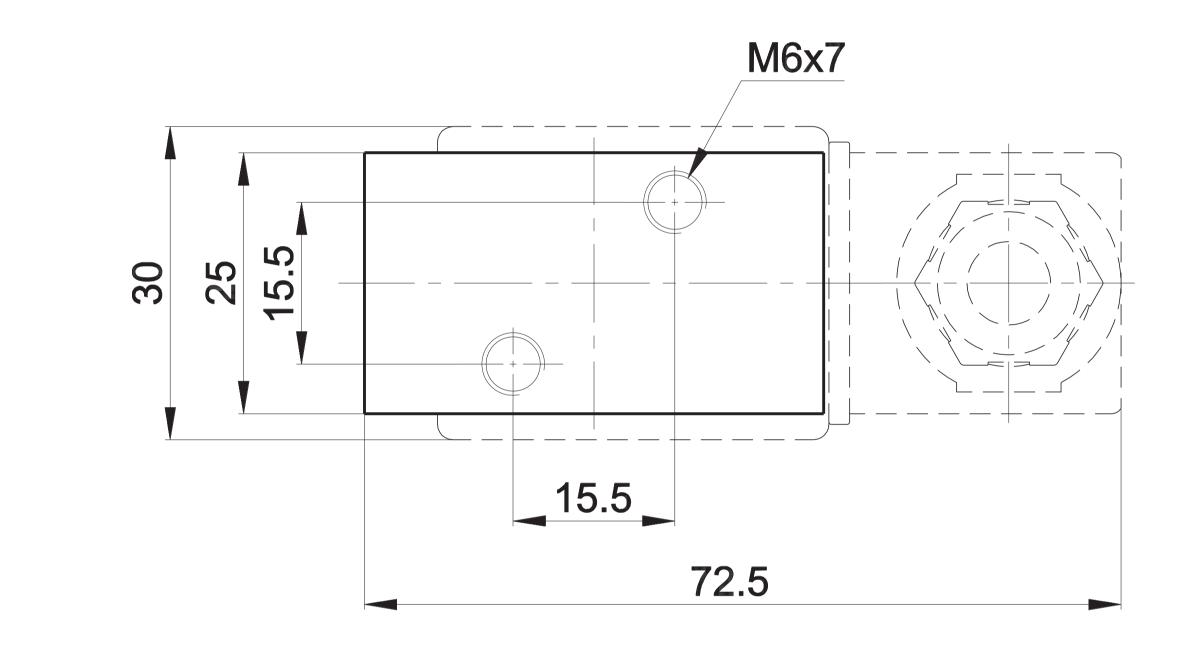
Material:			
valve body	brass		
sleeve	treated brass		
core and spring	stainless stee		
seals	nitrile rubber		

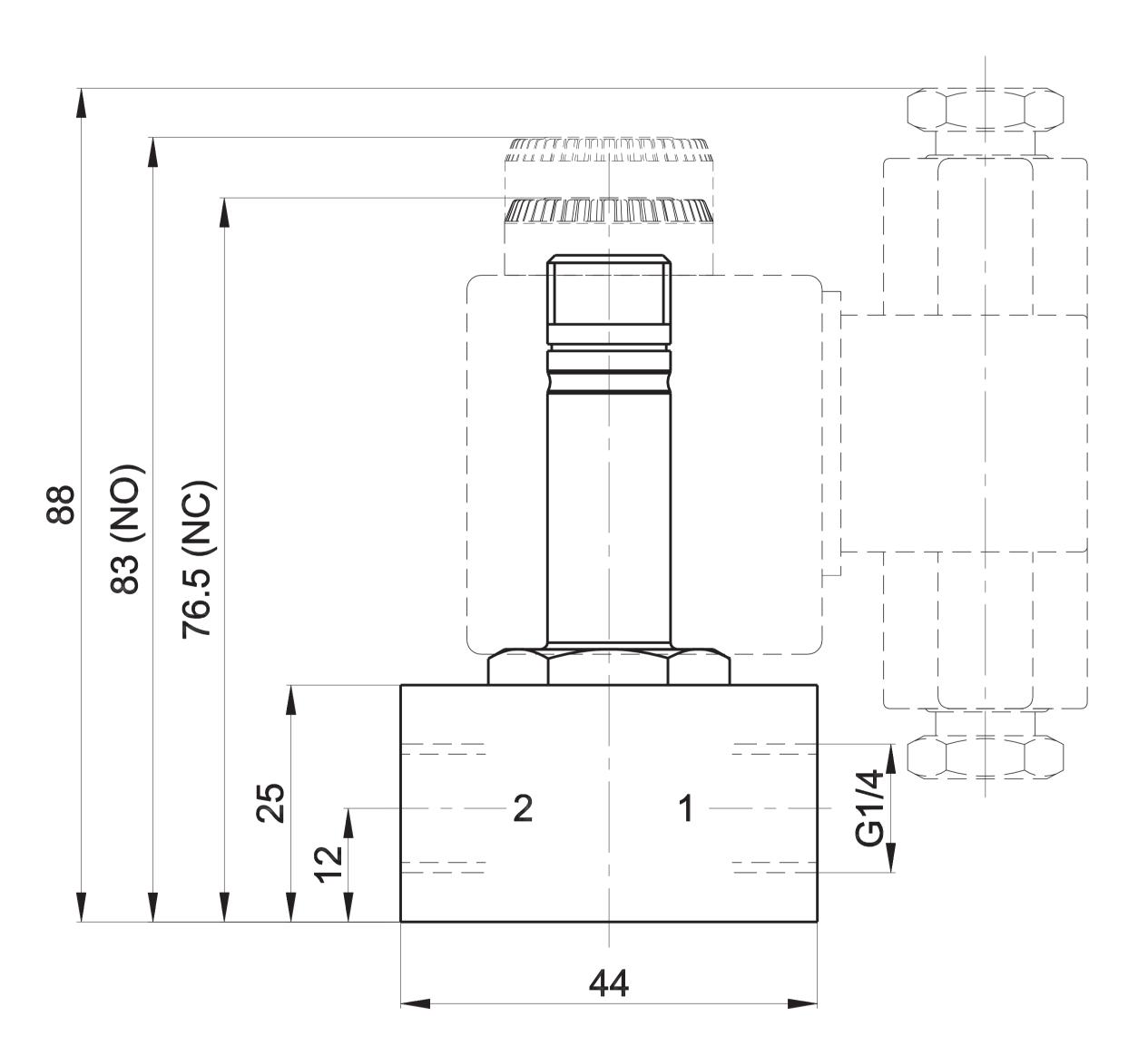
Weight (Kg):	0,220

Ø (d)	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	-	<b>AB-0825</b>
2,4	210	0÷15	11	-	AB-0826
3	280	0÷10	12	_	<b>AB-0827</b>
3,5	350	0÷9	_	10	<b>AB-0828</b>
4	450	0÷8	_	13	AB-0829
4,5	500	0÷7	_	13	<b>AB-0830</b>
5	550	0÷6,5	_	16	AB-0831
5,5	600	0÷6	_	21	AB-0832
6	650	0÷5	_	29	<b>AB-0833</b>
	1,6 2 2,4 3 3,5 4 4,5 5 5	mm(NI/min)1,610821652,421032803,535044504,550055505,5600	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

(e) = manual override on AM-5203 ring nut

Electropiltots are supplied without coil, connector and locking ring

<sup>(</sup>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



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



technopolymer
treated brass
stainless steel
nitrile rubber

**Weight (Kg):** 0,155

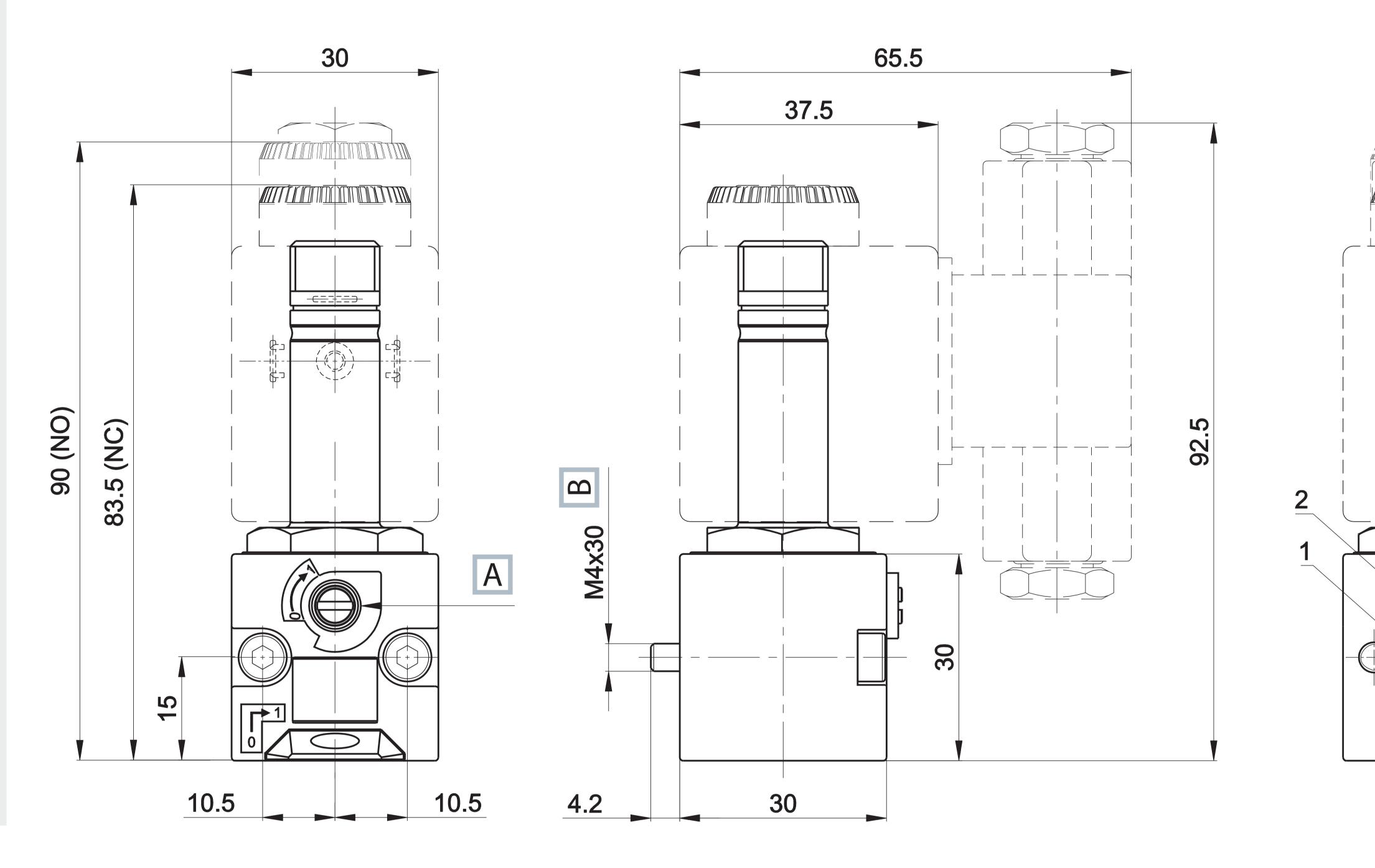
3/2 NC

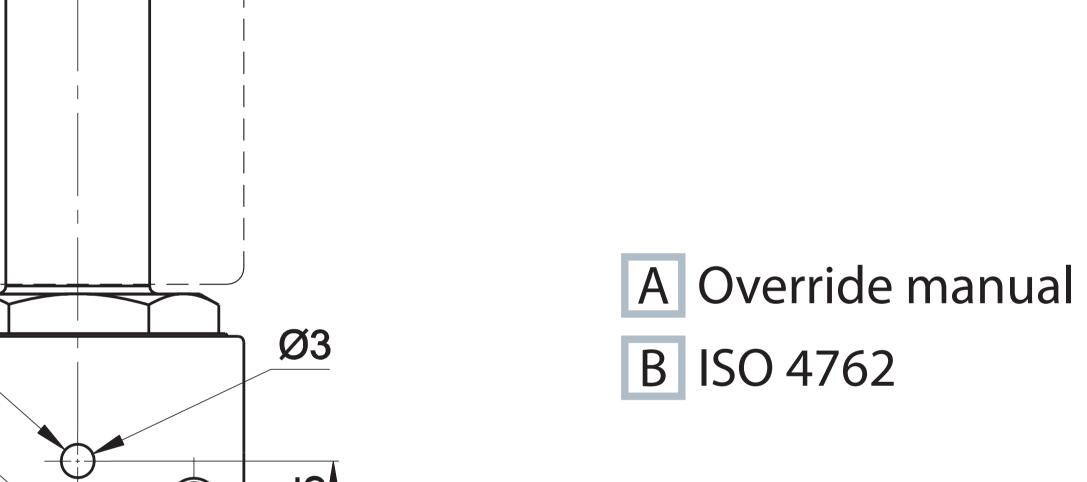
2/2 NC

3/2 NO

Symbol	Ø (d)	Flow rat	te (NI/min)	Times	s (ms)	Manual	Part no.
	mm	1 → 2	2→3	En.	De-en.	override	
2 ————————————————————————————————————	2,4	110	170	13	12		AB-0885
2 	2,1	115	<del>_</del>	12	<del>-</del>		AB-0886
2 7 7 7 7 7 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.





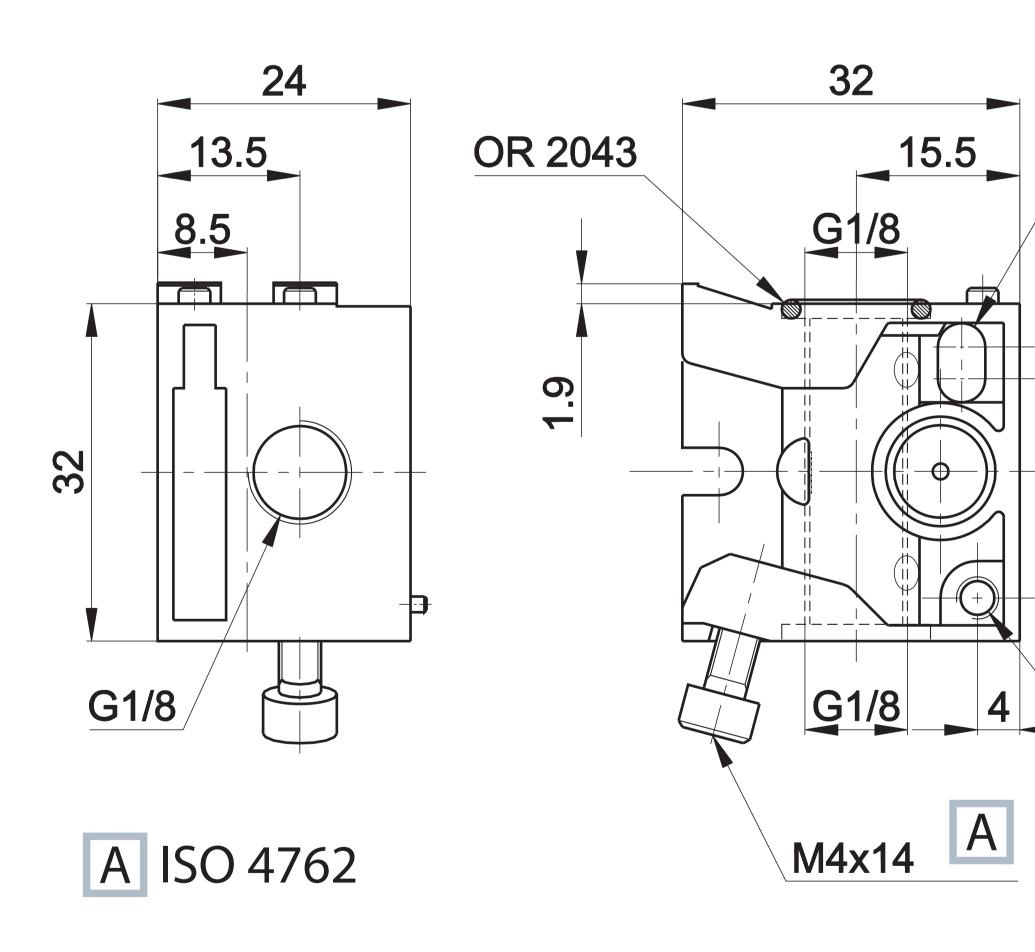
#### 1 = Supply port

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



#### 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.

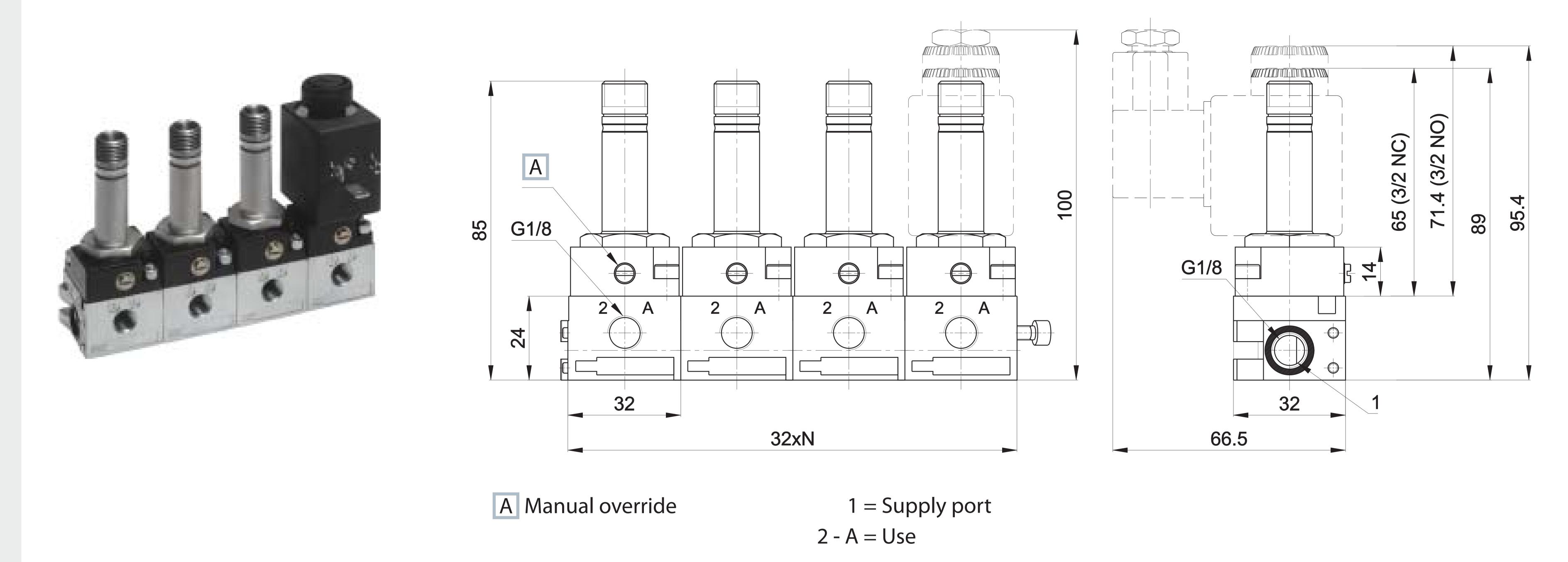
- (c) = close the exhaust of the 3/2 NO electropilot to get the 2/2 NO one (d) = the  $\emptyset$  shown on the 3/2 valves refers to the exhaust  $\bigcirc$  = wit
- (e) = manual override on ring nut AM-5203

Electropiltots are supplied without coil, connector and locking ring

<sup>2 =</sup> Use

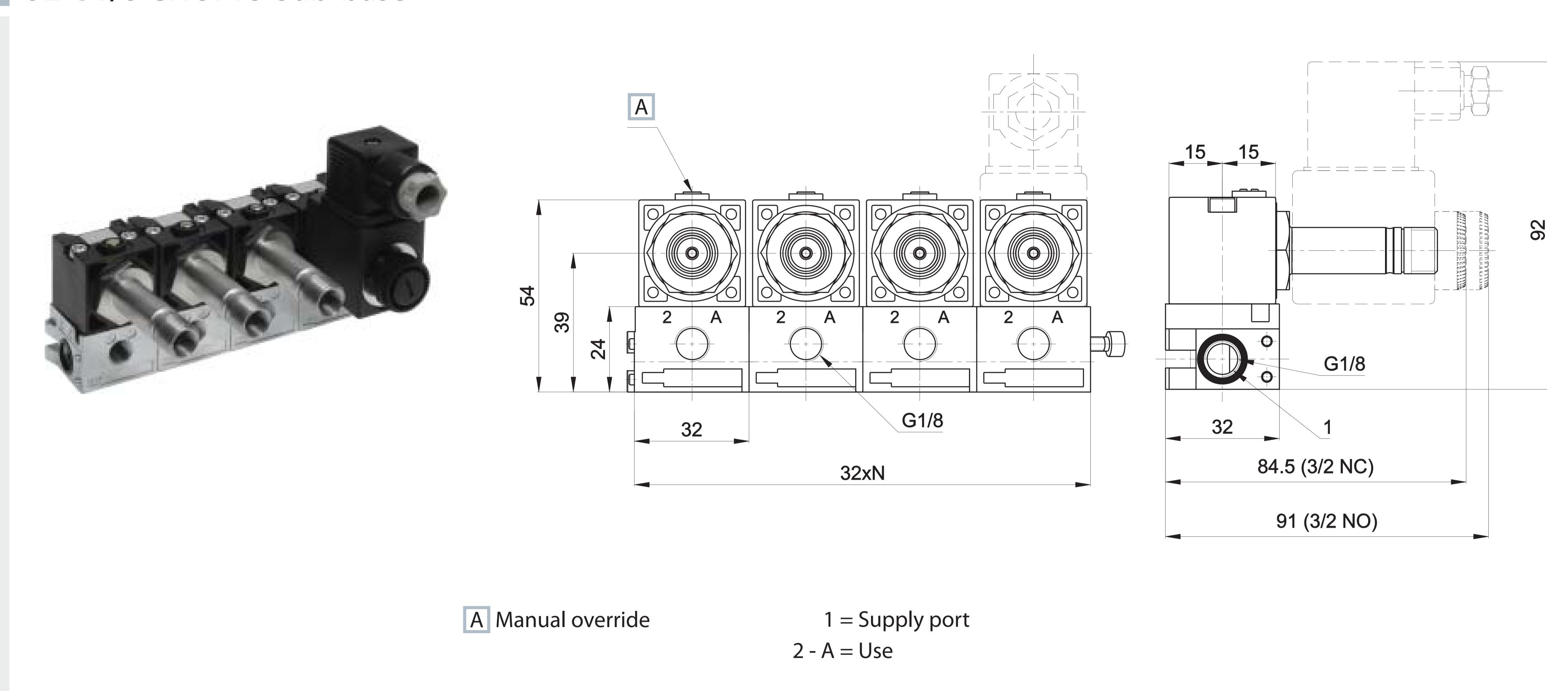
## 

#### U2 G1/8 Sub-base



N = Number of valve position

#### U2 G1/8 CNOMO Sub-base



N = Number of valve position