

#### 10 mm nanovalves

- Flow rate 12 NI/min
- Interface with conveyed discharge or discharge in the air
- Versions 3/2 normally open (NO) and normally closed (NC)
- Interchangeable coil (U04) rotation by 180°
- Molex-type electrical connector or louse wires



## TECHNICAL CHARACTERISTICS

Ambient temperature	-5 ÷ +50 °C
Fluid temperature	max +50 °C
Fluid	10 μm filtered air, lubricated or not
Commutation system	poppet valve
Ways/Positions	3/2 NC, 3/2 NO
Pressure	max 8 bar
Control	electric
Return	mechanical spring
Connections	on sub-base
Nominal Ø	0,5÷0,6 mm
Nominal flow rate	9÷12 NI/min
Max frequency	2300 ÷ 3000 cycles/min

# CONSTRUCTIVE CHARACTERISTICS

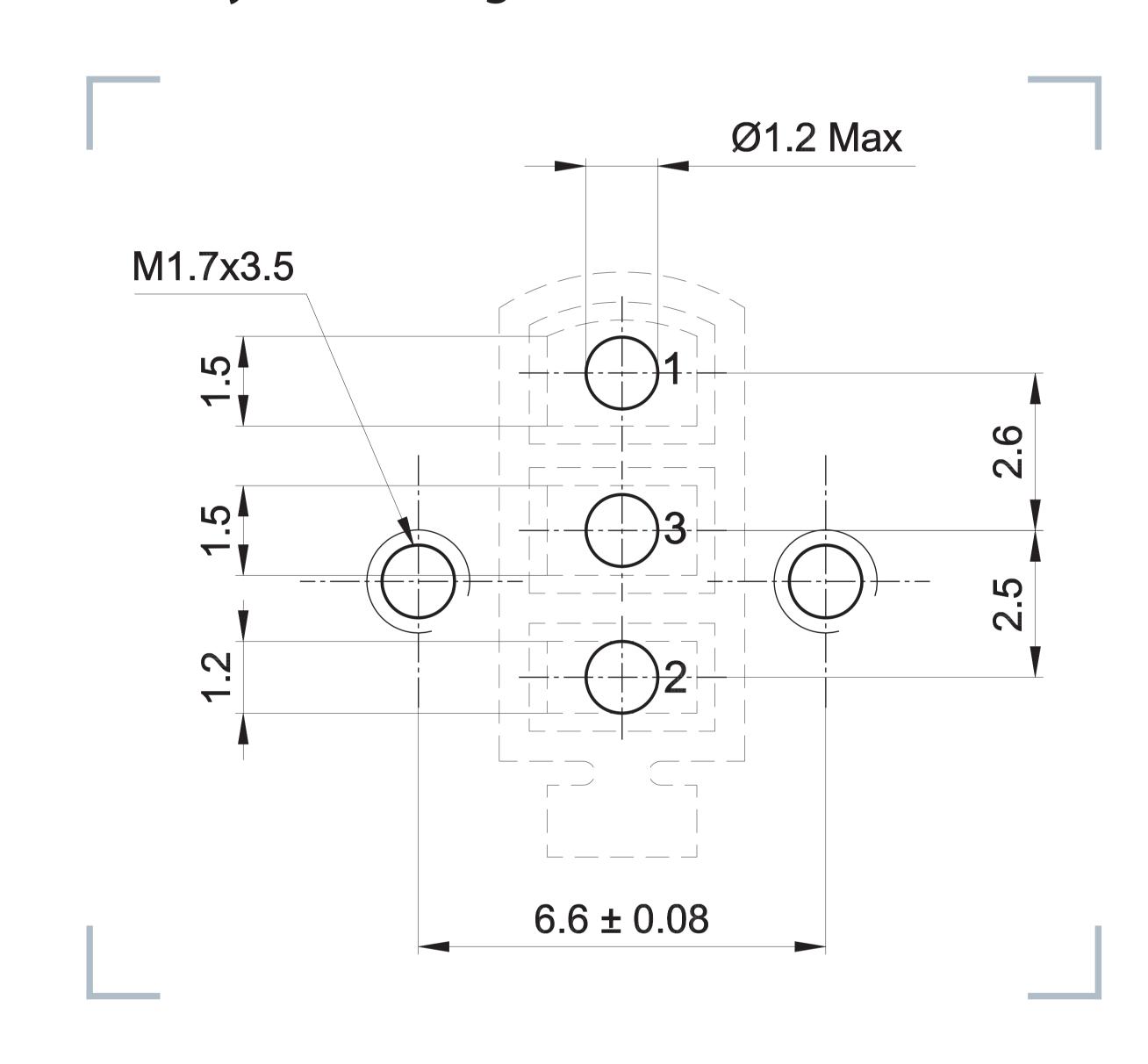
Valve body	thermoplastic
Seals	nitrile rubber
Components	stainless steel - treated brass

## **ELECTRIC CHARACTERISTICS**

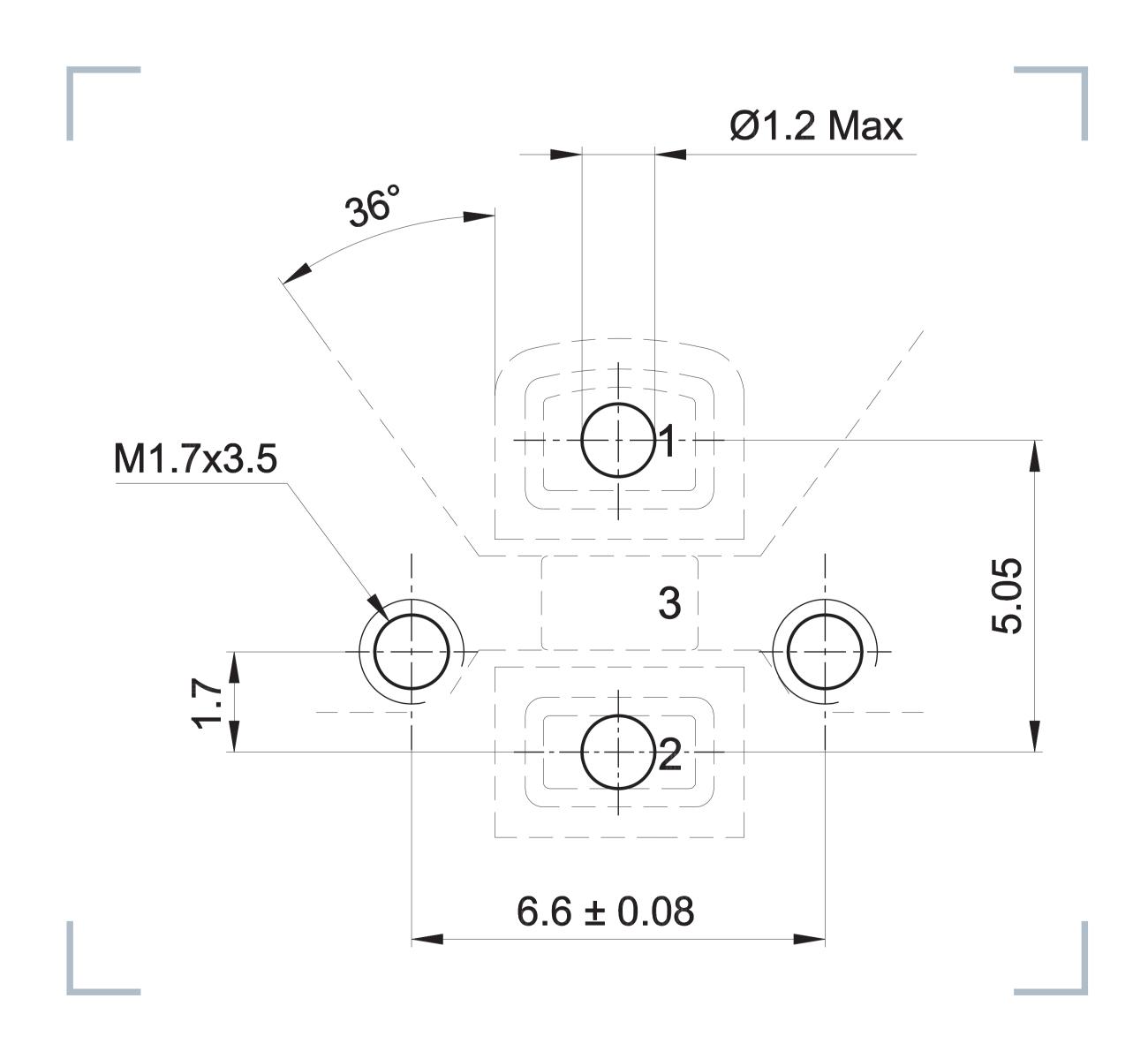
Coil	U04 DE series
Power consumption	1,2 W (1,35 W with LED)
Electrical connection	Molex-type bipolar connector or loose wires
Voltage	12 V DC - 24 V DC
Manual override	with button with tool

# Substructure

#### Conveyed discharge



### Discharge in the air

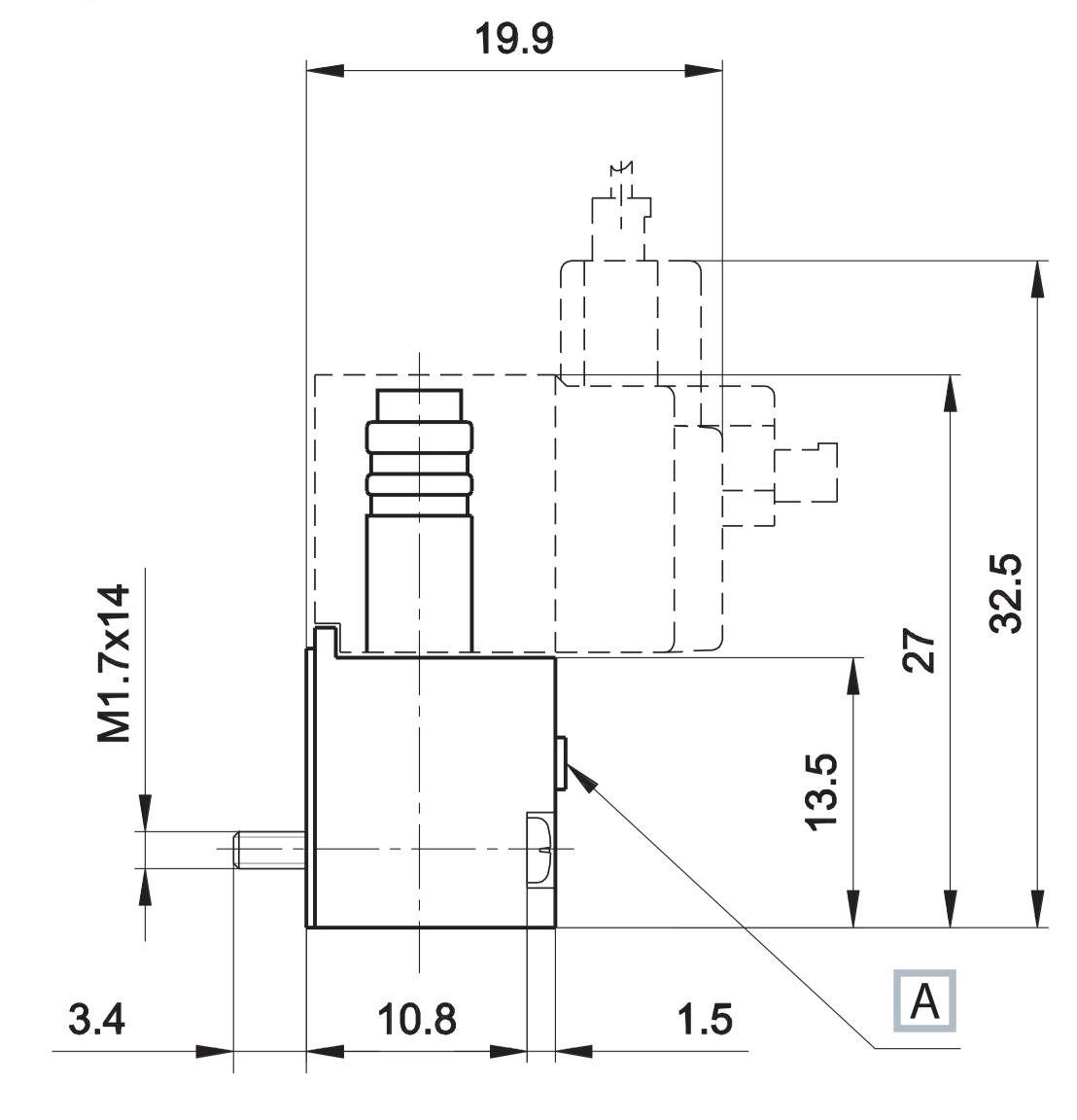


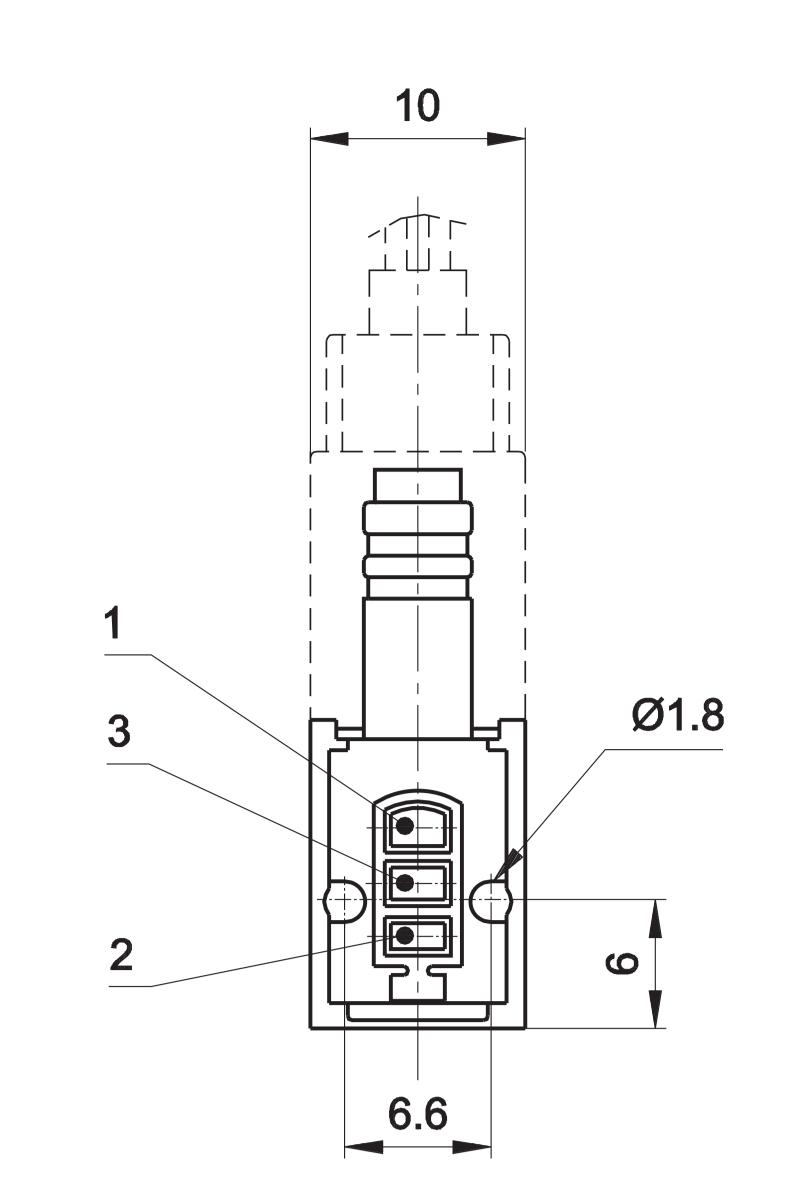
NCNO1 =Supply port1 =Exhaust2 =Use2 =Use3 =Exhaust3 =Supply port



# Valves with conveyed discharge







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

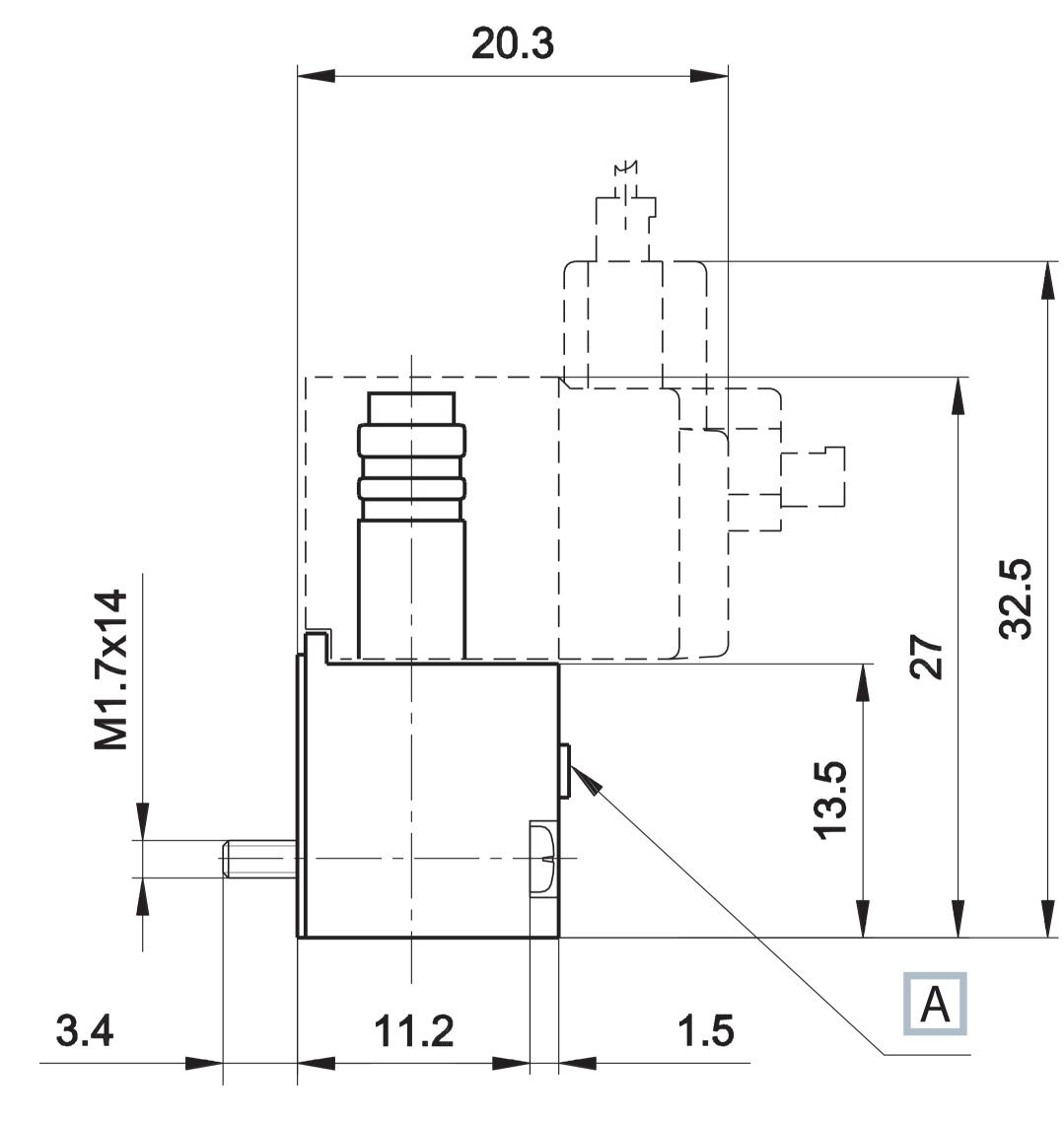
A Manual override

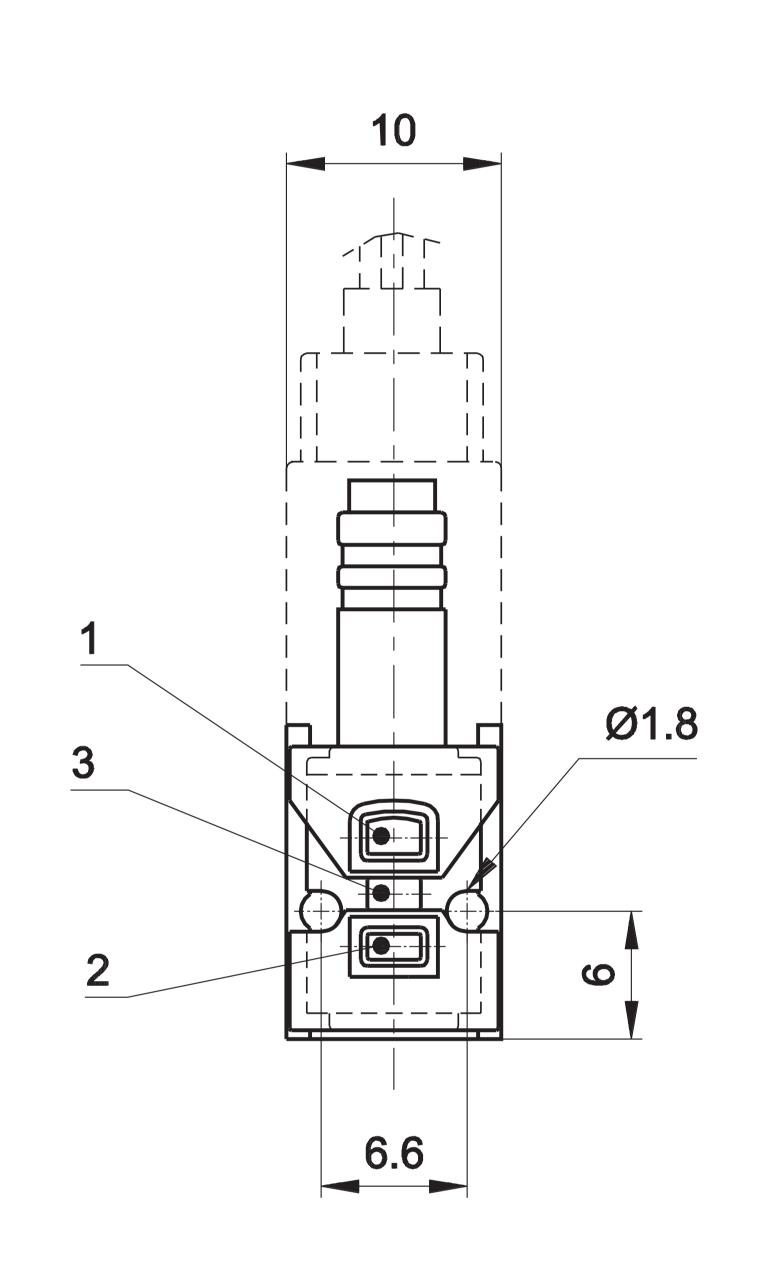
3/2 NC 3/2 NO

Symbol	Nominal Ø	Flow rate	Pressure	Times (ms)	Weight (b)	Part no.
		NI/min.	bar	En. De-en.	Kg	
2 ————————————————————————————————————	0,5	$1 \rightarrow 2 = 9$ $2 \rightarrow 3 = 12$	1,5÷8( <b>a</b> )	9 10	0,007 (0,012)	B-101N
2 1 3 1	0,5	$3 \rightarrow 2 = 9$ $2 \rightarrow 1 = 10$	0÷8	18 8	0,007 (0,012)	B-121N

# Valves with discharge in the air







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

A Manual override

Symbol	Nominal Ø	Flow rate	Pressure	Times (ms)	Weight (b)	Part no.
		NI/min.	bar	En. De-en.	Kg	
	0,6	$1 \rightarrow 2 = 12$ $2 \rightarrow 3 = 15$	1,5÷8 <b>(a)</b>	9,5 9	0,007 (0,012)	B-102N

# >> Coils

3/2 NC











U04 with integrated upward 90° connector

U04 with in-line connector

U04 with loose wires (300 mm lenght)

U04 with in-line connector with protecting cover for complete tightness

For technical features of coils and connector, see section "Accessories>Coils" Nanovalves are supplied without coil and connector, to be ordered separately.

<sup>(</sup>a) = upon request: 0 bar operation

<sup>(</sup>b) = the value in brackets indicates the mass with coil (0,015 Kg with 300 mm loose wires)