

# Manually operated pneumatic 7/6-Valve SV-M76



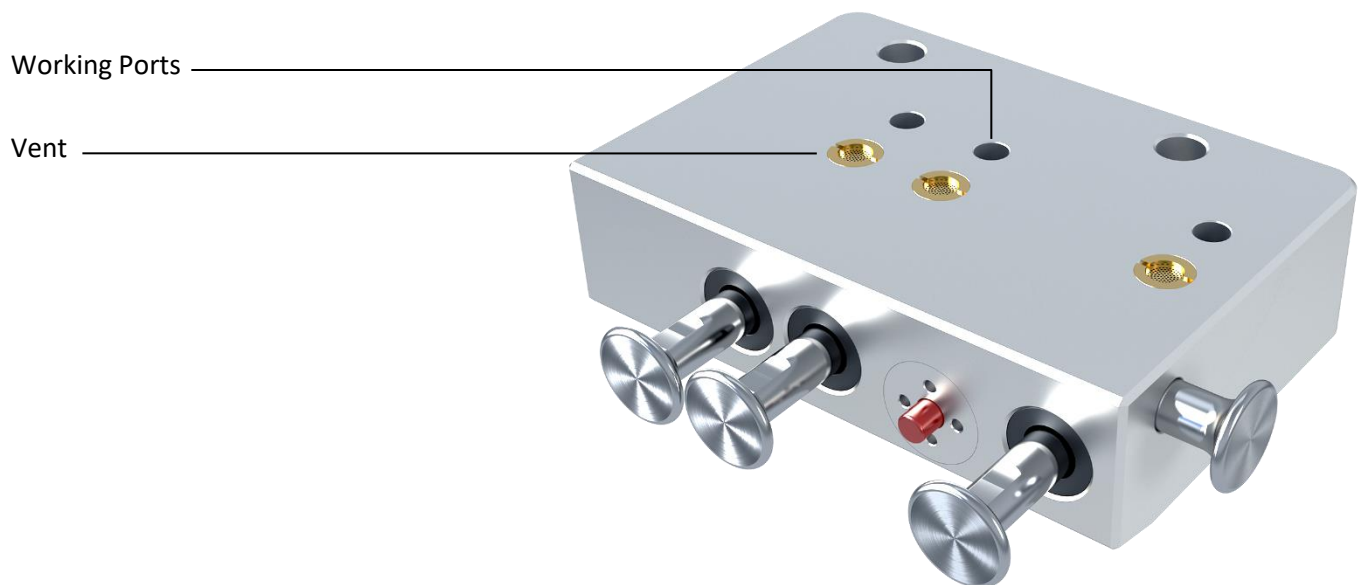
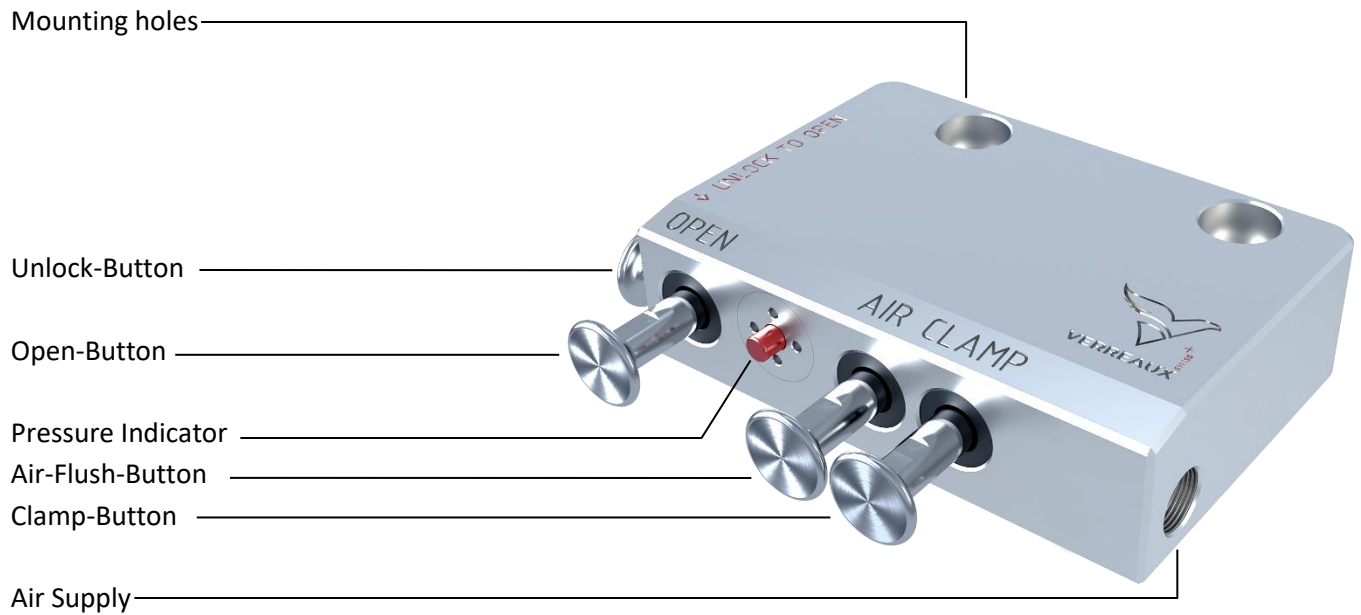
The valve is made to operate various functions of zero-point-systems. It is installed directly on the base plate inside the processing area of the machine tools. It allows quick and ergonomic operation as simple as pushing buttons.

A function indicator is also integrated into the valve, which shows the operator, whether the clamp is closed or open.

This documentation provides the relevant information about the product.

Manually operated pneumatic Valve SV-M76

Design



## Manually operated pneumatic Valve SV-M76

### Features / Benefits

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|--|--|
| <ul style="list-style-type: none"> <li>▪ Ergonomic operation of all functions</li> <li>▪ One separate button per function</li> <li>▪ Open only after unlocking</li> <li>▪ Integrated pressure indicator</li> <li>▪ Direct installation inside the processing area of machine tools</li> <li>▪ Air supply can be unplugged</li> </ul> | <ul style="list-style-type: none"> <li>Easy to use, higher productivity</li> <li>Functional dependability</li> <li>Process reliability</li> <li>Process reliability</li> <li>Time saving</li> <li>Flexibility</li> </ul> |
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### Product Scope / Product Key

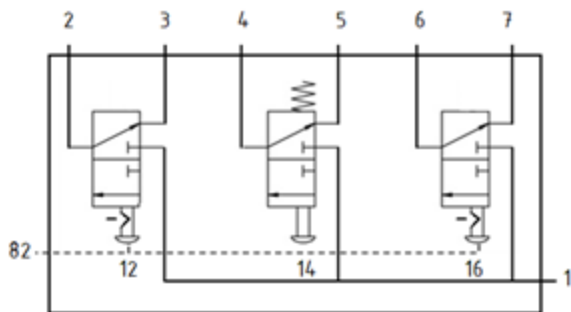
- |                    |                                    |
|--------------------|------------------------------------|
| ▪ Aluminum*        | SV-M76-AL-VB-S1, Art. P2018-002-01 |
| ▪ Stainless Steel* | SV-M76-SS-VB-S1, Art. P2018-002-02 |

\*Housing material

### Ports

#### **INSTALLATION NOTICE:**

**The working ports 2, 4 and 6 must be sealed with O-Rings on the base plate!**



- 1 Air supply (unidirectional quick coupling, not scope of delivery )
- 2 Working port „Open“, integrated into the base plate with O-Ring
- 3 Vent “Open“, silencer installed
- 4 Working port „Air-flush “, integrated into the base plate with O-Ring
- 5 Vent „Air flush“, silencer installed
- 6 Working port „CLAMP“, integrated into the base plate with O-Ring
- 7 Vent „Clamp“, silencer installed
- 12 “Open” button, locking type
- 13 “Air flush” button, non-locking type
- 14 “Clamp” button, locking type
- 82 „Unlock to open” button. Non-locking type, normally closed

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### Functional description / Operation

- Clamp** Push button 16. This function is locking. The system remains under pressure until the button is pulled back.
- Open** This function is locked against unintended opening. To open, first make sure, button 16 is pulled back. Then push button 82 and hold, now push button 12. System needs to vent completely to open.

#### **NOTICE:**

**Avoid mid-positions while pushing “open” or “clamp” buttons. Always push the buttons quickly to the end.**

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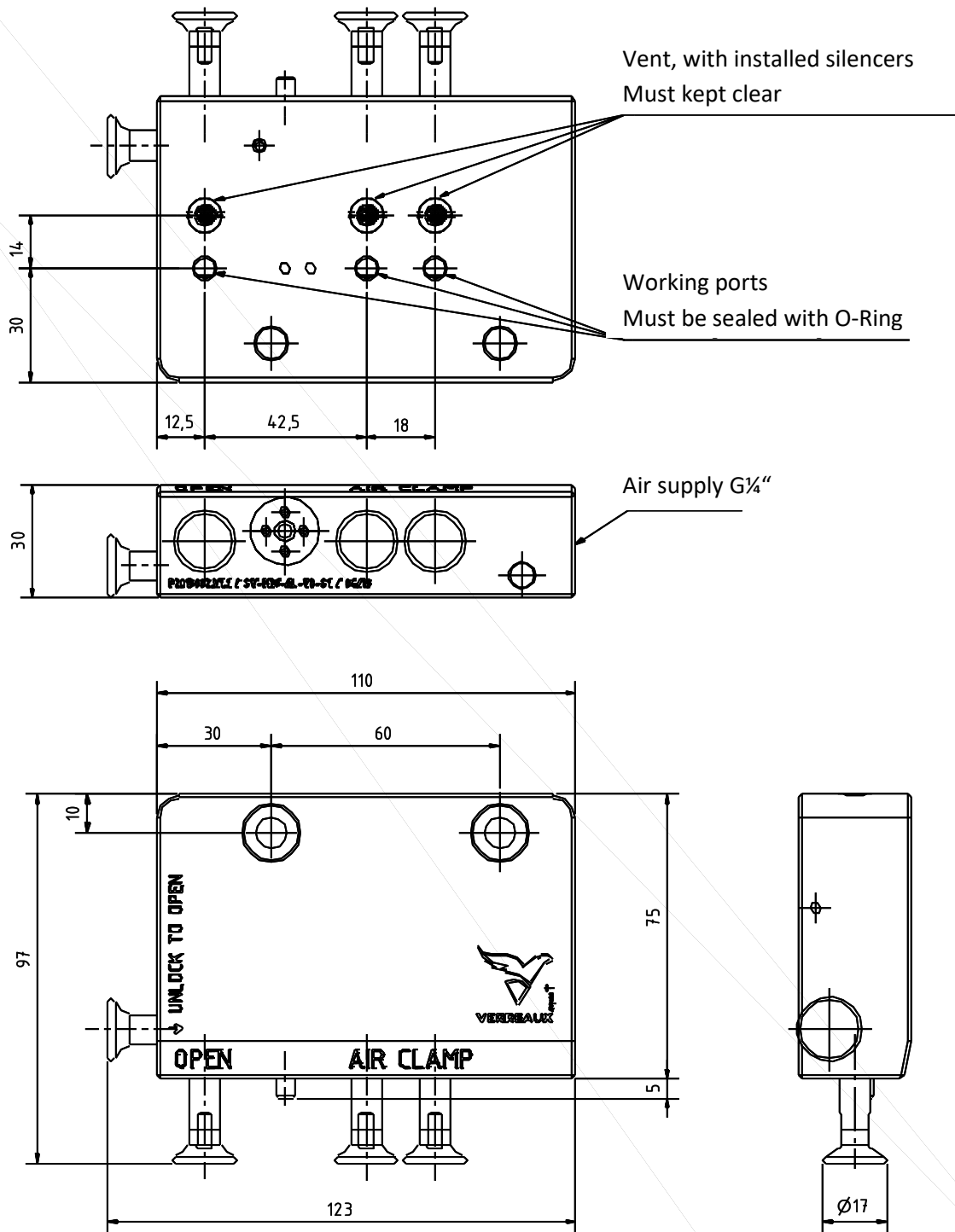
**„Unlock to open“ button can’t be operated as long as “Clamp” is active.**

- Function indicator** The red pin stands out of the front as long as the system is open. It is a warning for the operator to not start machining before closing the clamp. The system is open when the “Clamp” button is pulled back **AND** the “Unlock to open” button is pushed and hold **AND** the “Open” button is pushed.
- Clean** Before commissioning newly, the clamps need to be cleaned. To do so, push button 14 and hold as long as necessary. This function is non-locking and is set back by a spring.

### Dimensions

Please turn the page.

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## Manually operated pneumatic Valve SV-M76

### Technical Data

Property	Value
Valve function	7/6 NC
Operation mode	manual
Dimensions (LxWxH)	123x97x30mm
Flow rate	500nl/min
Working pressure range	0... 10 bar
Valve type	piston
Reset method	Spring (mechanical)
Nominal diameter DN	6 mm
Vent	Not adjustable, protected by silencer
Operation notice	Manually only
Sealing principal	Soft
Installation position	any, preferably horizontal
Control mode	direct
Flow direction	Non-reversible
Overlap	yes
Operation medium	Air, according to ISO 8573-1:2010 [7:4-:4]
Operation medium notice	Lubricated air possible, once used, necessary
corrosion resistance class CRC	3 - enhanced corrosion resistance
Temp. of operation medium	-10 ... 80 °C
Temp. of ambience	-20 ... 120 °C
Operating force (by hand)	10N
Max. operating force	50N
Max. lateral force	5N
Net weight	0,696kg
Fixing method	through-holes for M8
Air supply	G1/4"
Working port 2 (OPEN)	Ø6
Vent 3	G1/8", silencer
Working port 4 (AIR)	Ø6
Vent 5	G1/8", silencer
Working port 6 (CLAMP)	Ø6
Vent 7	G1/8", silencer
Material gaskets	HNBR
Material housing	-01: EN AW-6082 / -02: 1.4305
Material piston	1.4305

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Property	Value
Material button	1.4305
Material function indicator pin	EN AW-6082
Material spring	1.4310
Material silencer	brass