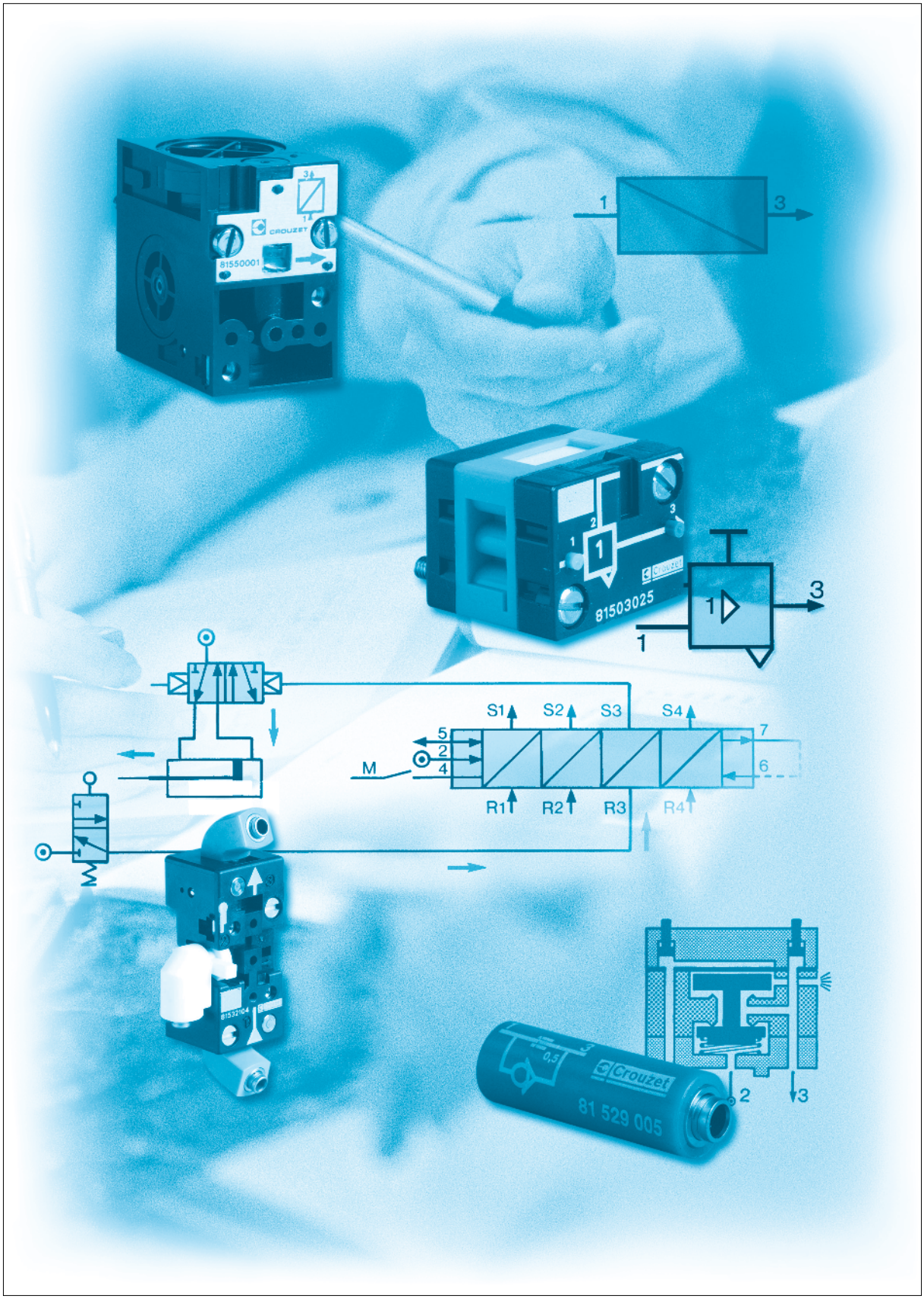
# Pneumatic logic components



**Operating fluid**

- Compressed air or inert gas.

**Conditions of use**

- Operating pressure 2 at 8 bars (except for special conditions).
- Fluid: Filtered air to 50 microns - non lubricated.
- Operating temperature from - 5° C to + 50° C (under + 5° C the dew point must be below 10° C for the application).
- For optimum performance, the elements should be inter-connected by air supply tubing with an internal diameter ≥ at 2.5 mm.

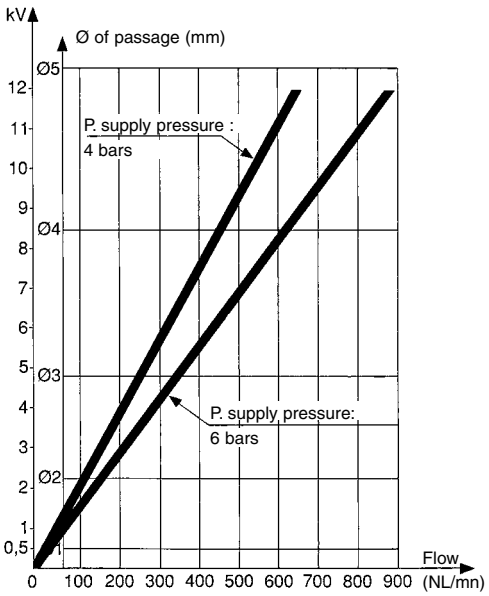
**Mounting recommendations**

- The elements should be mounted and piped in a clean atmosphere in order to prevent any form of pollution entering the system.
- Minimum torque for element fixing screws: 5 cm/kg.
- maximum torque for element fixing screws: 10 cm/kg.

**Characteristics common to all elements in the modular system**

- The characteristics have been obtained with a supply pressure at 6 bars.
- The flow in Nl/min is the number of litres of air at normal atmospheric pressure obtained with the output open to atmophere and the supply pressure at 4 bars
- The consumption in Nl/min is the number of litres of free air necessary for the unit to function.
- kV = the flow coefficient of the equipment.
- Mechanical life > $10^7$ operations.

**flow graphs**

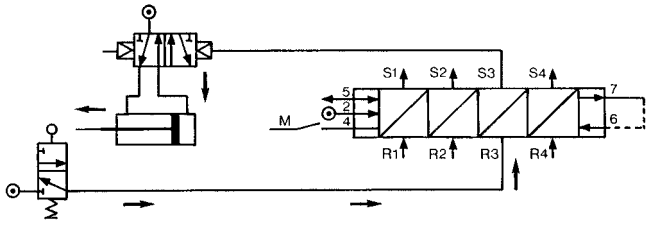



4

**Sequencer modules**

Operation results from the combination of a sequential cycle. A system comprises individual modules which are joined together by means of a sub-base. Each module has a memory which delivers an output signal and receives an input signal.

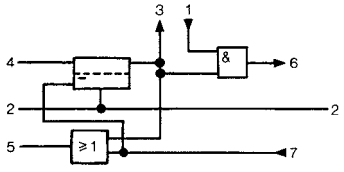
An indicator on each module allows the operator to monitor the progress of the cycle and identity quickly and easily any fault which may occur.




Operation results from the combination of three functions (memory, AND and OR) which constitute each module.

The memory activates the output and gives priority to the reset signal.
The AND element ensures the transition to the next module but only if an input signal is present.
The OR element ensures the resetting of all previously operated modules

**Function diagram**

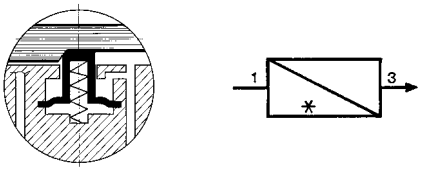



**sequencer module with maintained reset**

Brake

This maintains the memory spool in position only when the supply is lost.

**Module with auto reset**




**Brake**

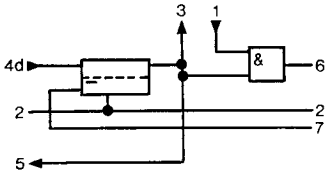
This returns the memory spool to the reset condition only when the supply is lost

**Shift register**

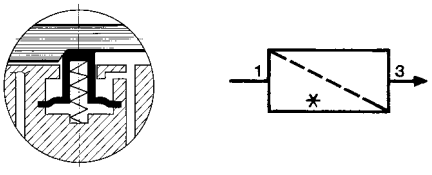
The general principle is to advance the sequencer step by command impulses to the inputs of the even steps, alternating with the command impulses to the inputs of the odd steps.

Used for example on a transfer machine to shift the information "bad component" collected at a test-test "n" steps further along the machine to a reject station.

**Function diagram**



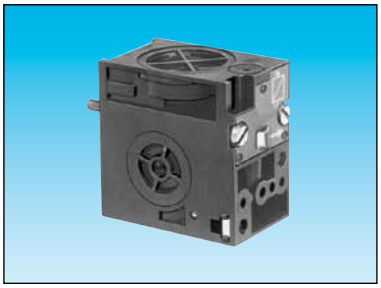

**Auto reset sequencer module**

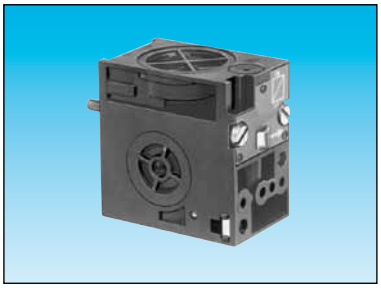


# Sequencer modules

■ **100 % pneumatic**
■ **Ideal for a simple pneumatic sequence**

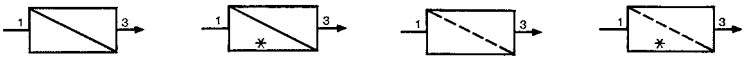
Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive





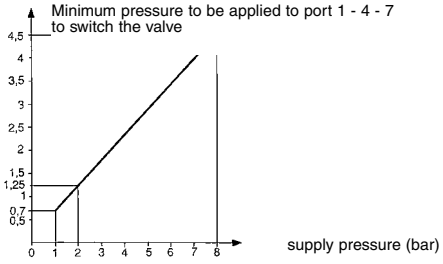
| Versions | | 81 550 001 | 81 550 201 | 81 550 401 | 81 550 601 |
|---|---|---|---|---|---|
| | sequencer | with 'maintain' | Reset to zero | — | — |
| | shift register | — | — | with 'maintain' | Reset to zero |

## Symbol




## Characteristics

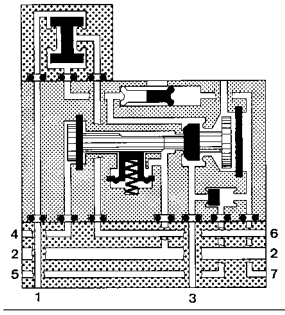
| | | | | | |
|---|---|---|---|---|---|
| Operating pressure | bar | 2 → 8 | 2 → 8 | 2 → 8 | 2 → 8 |
| Orifice diameter | mm | 2.7 | 2.7 | 2.7 | 2.7 |
| Flow at 6 bars | Nl/min | 150 | 150 | 150 | 150 |
| Operating temperature | °C | -5 → +50 | -5 → +50 | -5 → +50 | -5 → +50 |
| Mechanical life 5 x $10^6$ at 6 bars | | ● | ● | ● | ● |
| Connection - Sub-base page 26 | | ● | ● | ● | ● |
| Weight | g | 70 | 70 | 70 | 70 |




## Principle of operation

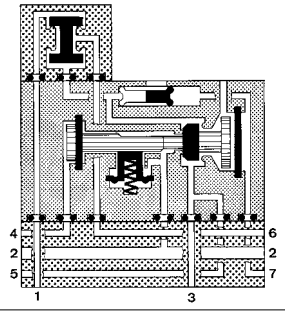
(supplied without logic element. For choice of units see pages 46/47)

**Sequencer module with maintained reset**



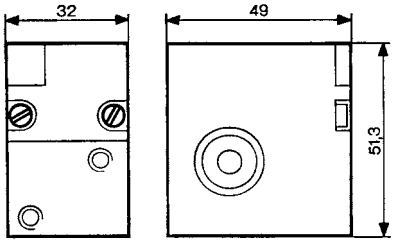

1 - Input signal
2 - Supply
3 - Output signal
4 - Start signal
5 - In cycle signal
6 - End of cycle signal
7 - Reset to zero signal

**Shif register with maintained reset**

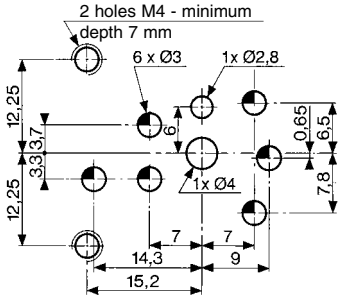



1 - Input signal
2 - Supply
3 - Output signal
4 - Start signal
5 - In cycle signal
6 - End of cycle signal
7 - Reset to zero signal

## Dimensions



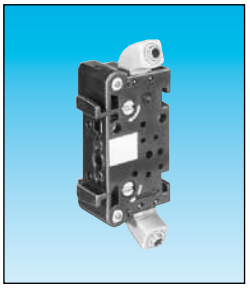

## Mounting plan for sequencer

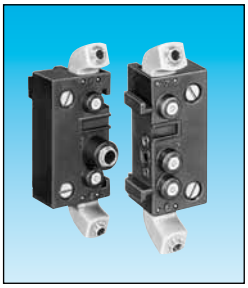


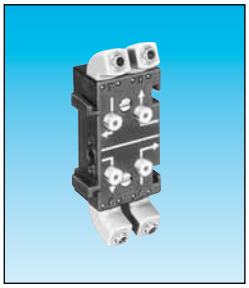

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# Sequencer sub-bases

Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive







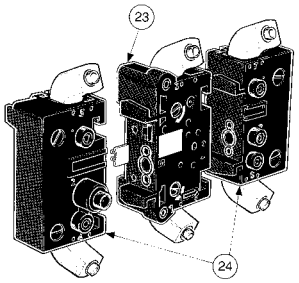
| | | 81 551 101 | 81 552 101 | 81 552 601 |
|---|---|---|---|---|
| Versions | Front connecting (DIN-omega) | Sub-base (DIN oméga) | End bases - one pair | Diversion base |
| | Rear connecting (with clips) | — | — | — |

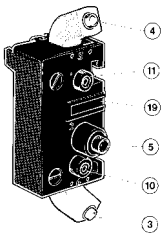
## Characteristics

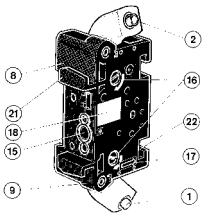
| | | | | | |
|---|---|---|---|---|---|
| Sub-bases (fitted) | Rotatable connectors | | ● | ● | ● |
| | Pressure indicators | | ● | ● | ● |
| Operating temperature | | °C | -5 → +50 | -5 → +50 | -5 → +50 |
| Weight | | g | 55 | 135 | 60 |

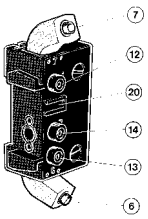
### Sequencer connections

**Front connecting**



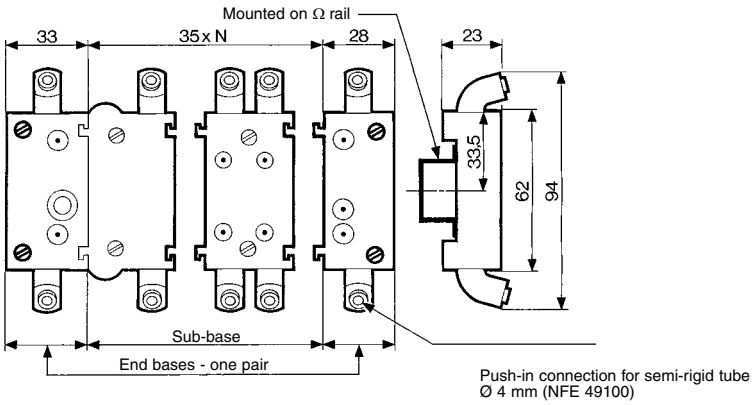



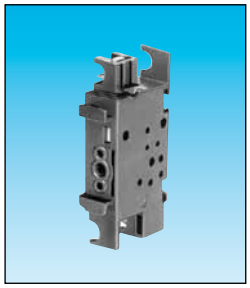



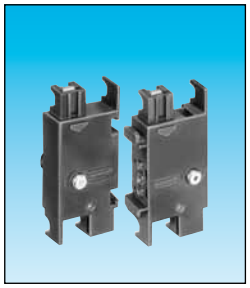

1 - Input port (green port 1) Ø 4
2 - Output port (red port 1) Ø 4
3 - Input port, cycle start (green port 1) Ø 4
4 - Output port, in-cycle signal (red port 1) Ø 4
5 - Output port, cycle end (red port 6) Ø 4
6 - Output port, cycle end (red port 6) Ø 4
7 - Input port, reset to zero (green port 7) Ø 4
8 - Output indicator (red)
9 - Input indicator (green)
10 - Cycle start indicator at port 4 (green)
11 - In-cycle indicator at port 5 (red)
12 - Input indicator at port 7 (green)
13 - End of cycle indicator at port 6 (red)
14 - Supply indicator at port 2 (yellow)
15 - Interconnecting ports
16 - Fixing screws
17 - Engraved arrow to indicate direction of sequence
18 - Marking tag
19 - Marking tag position
20 - Marking tag position
21 - Mounting tongue
22 - Mounting groove
23 - Sub-base
24 - End bases

### Dimensions

**Front connecting**



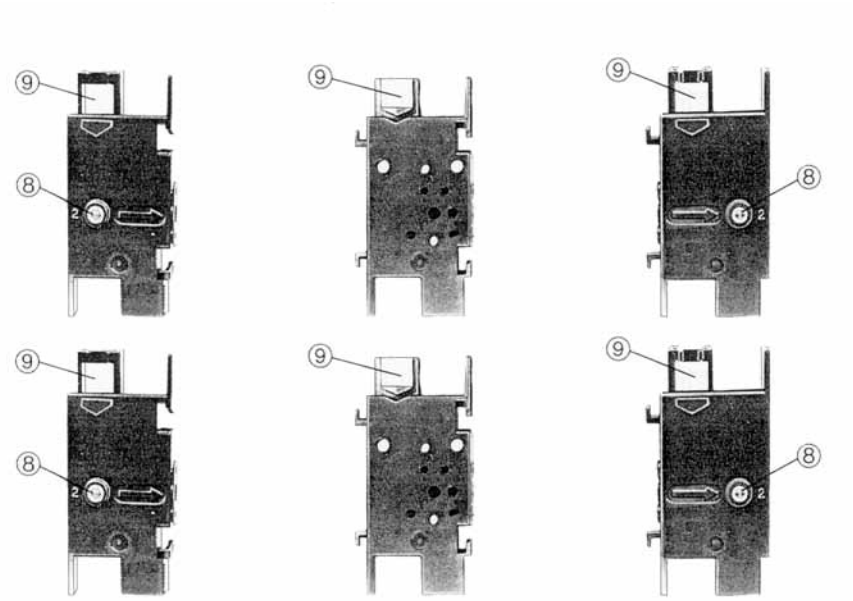




| 81 551 001 | 81 552 001 |
|---|---|
| — | — |
| Sub-base (with clips) | End bases - one pair |

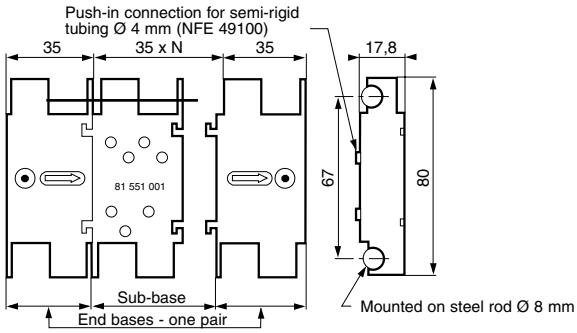
| | |
|---|---|
| — | — |
| — | ● |
| -5 → +50 | -5 → +50 |
| 40 | 120 |

**Rear connecting**




1 - Input port (marked port 1)
2 - Supply port (Port 2)
3 - Output port (Port 3)
4 - Cycle start signal port (Port 4)
5 - In-cycle signal port (Port 5)
6 - End of cycle signal port (Port 6)
7 - Reset to zero signal port (Port 7)
8 - Indicator at supply port
9 - Marking area

**Rear connecting**

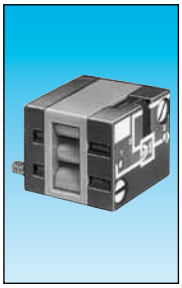



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# Logic elements

■ **Performs "combined" Pneumatic**
■ **Easy to use**

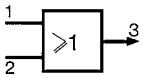
Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive

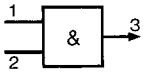





| | | 81 521 501 | 81 540 001 | 81 540 005 | 81 522 501 |
|---|---|---|---|---|---|
| Functions | OR | — | — | — | — |
| | AND | — | — | — | — |
| | YES | — | — | — | — |
| | NO | — | — | — | — |
| Version | | On Sub-base page 4/14-4/15 | Plug-in Ø 4 | Plug-in Ø 6 | On Sub-base page 4/14-4/15 |

## Symbol



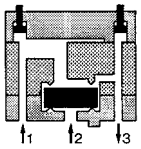

## Characteristics

| | | | | | | |
|---|---|---|---|---|---|---|
| Push-in connection for semi-rigid tubing (NFE 49100) | Male/Female/Female | | — | Ø 4 mm | — | — |
| | Female/Female/Female | | — | — | Ø 6 mm | — |
| Colour | | | Blue | Blue | Blue | Green |
| Operating pressure | | bar | 2 → 8 | 2 → 8 | 2 → 8 | 2 → 8 |
| Orifice diameter | | mm | 2.7 | 2.7 | 4 | 2.7 |
| Flow at 6 bars | | Nl/min | 170 | 170 | 200 | 170 |
| Pressure indicator | | | ● | — | — | ● |
| Switching time | | ms | — | — | — | — |
| Operating temperature | | °C | -5 → +50 | -5 → +50 | -5 → +50 | -5 → +50 |
| Mechanical life | | operations | $>10^7$ | $>10^7$ | $>10^7$ | $>10^7$ |
| Weight | | g | 25 | 12 | 25 | 25 |

**Pilot/pressure curves**

P.p : Pilot pressure
P.a : Supply pressure

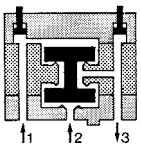
## Principle of operation




**Cellule OR**

The output signal "S" is present when a signal at "a" OR "b" is present:

S = a OR b  S = a + b



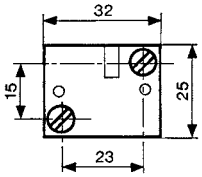

**Cellule AND**

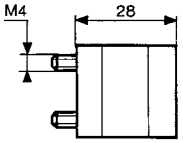
The output signal "S" is present only when signals "a" AND "b" are present simultaneously:

S = a AND b  S = a . b

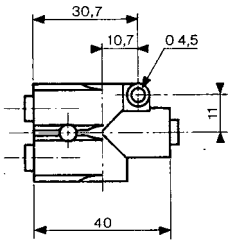
## Dimensions

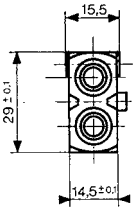
**81 521 501 - 81 522 501**



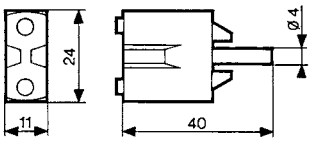




**81 540 005 - 81 541 005**



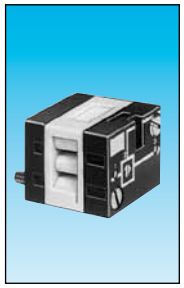
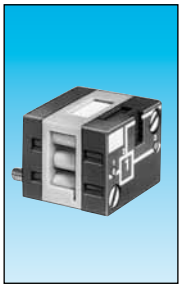
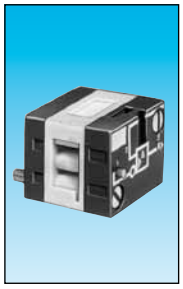
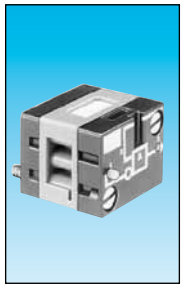
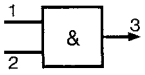
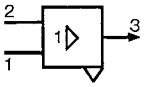
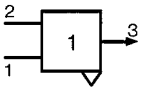
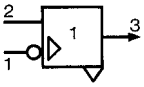
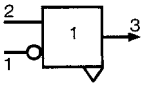
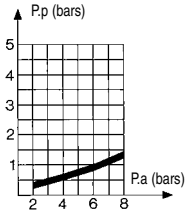
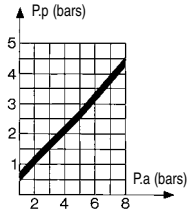
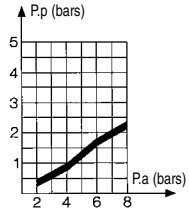
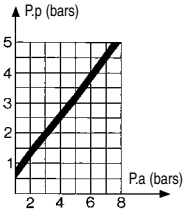




**81 540 001 - 81 541 001**

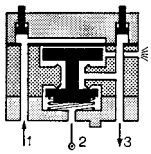



## Other information

See pages 54/55 for mounting plan for logic elements.

| | | | | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| — | — | — | — | — | — |
| 81 541 001 | 81 541 005 | 81 501 025 | 81 503 025 | 81 504 025 | 81 506 025 |
| — | — | — | — | — | — |
| — | — | — | — | — | — |
| Plug-in<br>Ø 4 | Plug-in<br>Ø 6 | On sub-base<br>page 36-37 | Threshold<br>On sub-base page<br>4/14-4/15 | Threshold<br>On sub-base page<br>4/14-4/15 | Threshold<br>On sub-base page<br>4/14-4/15 |
|  | |  |  |  |  |
| Ø 4 mm | — | — | — | — | — |
| — | Ø 6 mm | — | — | — | — |
| Green | Green | Yellow | Orange | Light grey | Dark grey |
| 2 → 8 | 2 → 8 | 2 → 8 | 2 → 8 | 2 → 8 | 2 → 8 |
| 2.7 | 4 | 2.7 | 2.7 | 2.7 | 2.7 |
| 150 | 200 | 170 | 170 | 170 | 170 |
| — | ● | ● | ● | ● | ● |
| — | — | < 4 | < 4 | < 4 | < 4 |
| -5 → +50 | -5 → +50 | -5 → +50 | -5 → +50 | -5 → +50 | -5 → +50 |
| $>10^7$ | $>10^7$ | $>10^7$ | $>10^7$ | $>10^7$ | $>10^7$ |
| 13 | 25 | 30 | 30 | 30 | 30 |
| | |  |  |  |  |

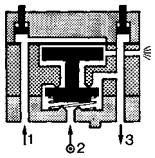




**YES element**

The output signal "S" is only present when the pilot is present "a" is present:

S = a YES b S = a



**NOT element**

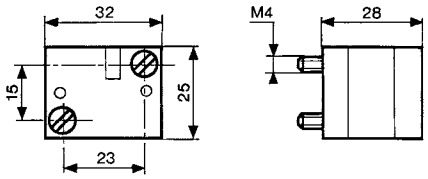
The output signal "s" is present only if the input signal "a" is NOT present. The output signal is therefore the inverse of the pilot signal:

S= NOT a S = $\overline{a}$

If the supply port is connected to a 2nd input "b", the function obtained is called inhibition:

S = NOT a AND b S = $\overline{a}$ . b

**81 501 025 - 81 503 025**
**81 504 025 - 81 506 025**



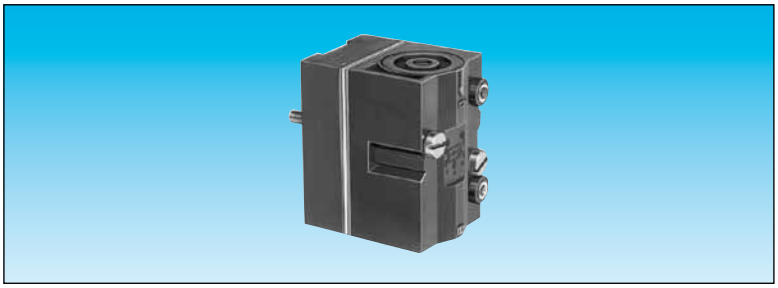


**ATEX** version products are available in the following catalogues: **Pneumatic products for explosive atmospheres** or on our website **www.crouzet.com**

# Memory element

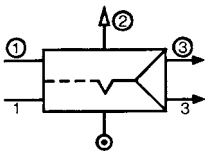
- **100 % pneumatic**
- **Bistable pneumatic**

Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive



| Version | 81 523 201<br>With pressure indicator | 81 523 601<br>With pressure indicator and manual override |
|---|---|---|

## Symbol



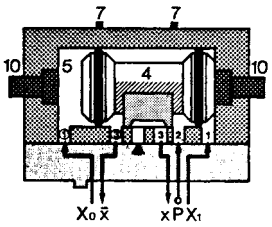

## Characteristics

| | | | |
|---|---|---|---|
| Colour | | Black | Black |
| Operating pressure | bar | 2 → 8 | 2 → 8 |
| Orifice diameter | mm | 2.7 | 2.7 |
| Minimum memory pilot pressure | bar | 2.5 | 2.5 |
| Operating temperature | °C | -5 → +50 | -5 → +50 |
| Flow at 6 bars | Nl/min | 200 | 200 |
| Connection - On sub-base page 4/14-4/15 | | ● | ● |
| Weight | g | 90 | 90 |

### Principle of operation

The function is that of a 4/2 valves. The appearence of signal "X1" causes the displacement of the slide valve. The output port "x" is then put under pressure. This state is remembered until the arrival of signal "X0". This signal reverses the slide valve, the output "x" is put under pressure. This state is likewise remembered. The output:

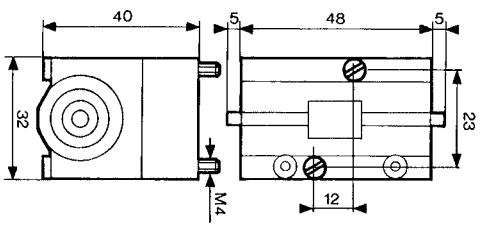
- "x" under pressure indicates that the information in the MEMORY is "X1",
- "x" under pressure indicates that the information in the MEMORY is "X0".



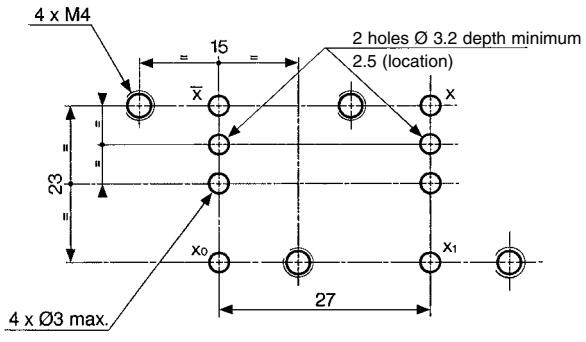

4

### Dimensions

**81 523 201 - 81 523 601**




### Dimensions of logic and memory elements

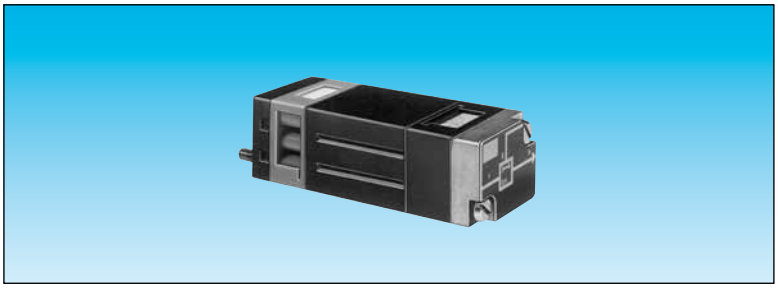



Viewed from above

**ATEX** version products are available in the following catalogues: **Pneumatic products for explosive atmospheres** or on our website **www.crouzet.com**

# Timers fixed timing

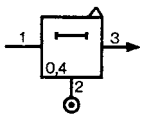
## ■ Fixed 0.4 s



Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive

| Version | 81 503 540<br>Positive output |
|---|---|

### Symbol

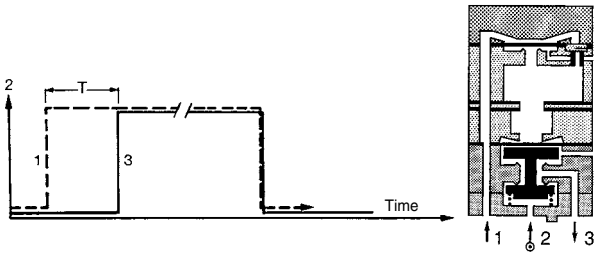



### Characteristics

| | | |
|---|---|---|
| Timing | s | 0.4 |
| Operating pressure | bar | 2 → 8 |
| Flow at 6 bars | Nl/min | 170 |
| Orifice diameter | mm | 2.7 |
| Accuracy | % | ± 5 |
| Min. reset time | s | <0.1 |
| Connection - On sub-base page 36-37 | | ● |
| Operating temperature | °C | -5 → +50 |
| Mechanical life | operations | $>10^7$ |
| Weight | g | 106 |

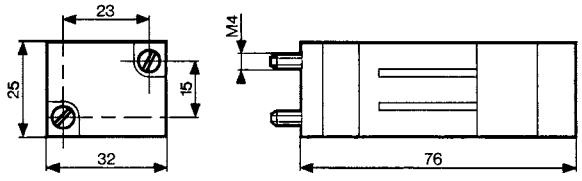
**Principle of operation**

**with positive output**




**Dimensions**

**81 503 540**

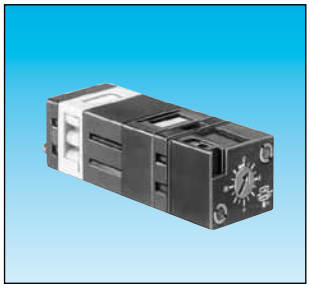
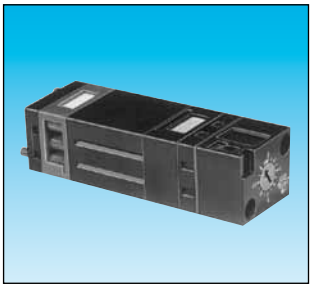
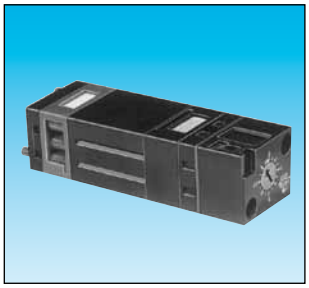



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# Timers (with adjustable timing)

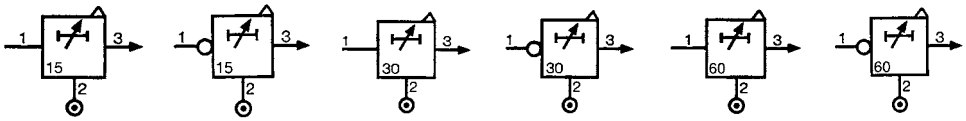
**■ 60 s adjustable (60 s max.)**

Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive

| | | 81 503 710 | 81 506 710 | 81 503 720 | 81 506 720 | 81 503 725 | 81 506 725 |
|---|---|---|---|---|---|---|---|
| Function | positive | ● | — | ● | — | ● | — |
| | negative | — | ● | — | ● | — | ● |

## Symbol




## Characteristics

| | | 81 503 710 | 81 506 710 | 81 503 720 | 81 506 720 | 81 503 725 | 81 506 725 |
|---|---|---|---|---|---|---|---|
| Timing | s | 0.1 → 15 | 0.1 → 15 | 0.1 → 30 | 0.1 → 30 | 0.1 → 60 | 0.1 → 60 |
| Operating pressure | bar | 2 → 8 | 2 → 8 | 2 → 8 | 2 → 8 | 2 → 8 | 2 → 8 |
| Flow at 6 bars | Nl/min | 170 | 170 | 170 | 170 | 170 | 170 |
| Orifice diameter | mm | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| Accuracy | % | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 | ± 5 |
| Min. reset time | s | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Connection - On sub-base page 4/14-4/15 | | ● | ● | ● | ● | ● | ● |
| Operating temperature | °C | -5 → +50 | -5 → +50 | -5 → +50 | -5 → +50 | -5 → +50 | -5 → +50 |
| Mechanical life | operations | $>10^7$ | $>10^7$ | $>10^7$ | $>10^7$ | $>10^7$ | $>10^7$ |
| Weight | g | 90 | 90 | 100 | 100 | 120 | 120 |

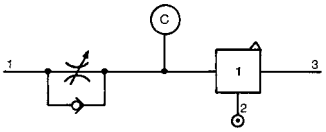
## Accessories

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Panel mounting adaptator | | 79 451 698 | 79 451 698 | 79 451 903 | 79 451 903 | — | — |
| Weight | g | 53 | 53 | 53 | 53 | — | — |

### Principle

The operation of these pneumatic timers is similar to that of electronic timers (circuit with capacitor/resistor)

### Timing by charging of reservoir

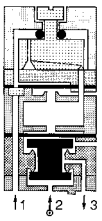



The reservoir fills via the flow restrictor until the switching point of the timer output is reached (positive or negative).
The non-return valve allows the reservoir to be emptied rapidly for the next timing.

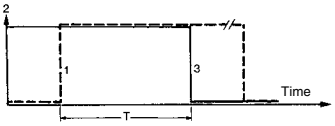
### Principle of operation

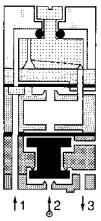
with positive output



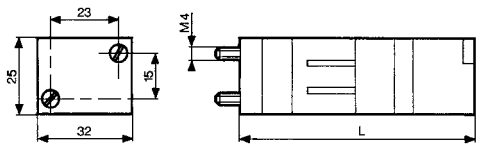




with negative output



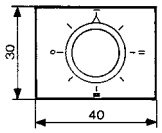



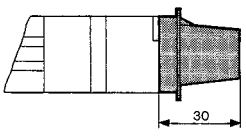

### Dimensions

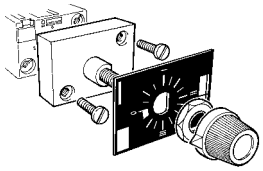



| | L (mm) |
|---|---|
| 81 503 710 - 81 506 710 | 78 |
| 81 503 720 - 81 506 720 | 92 |
| 81 503 725 - 81 506 725 | 125 |

### Adaptator 79 451 . . .



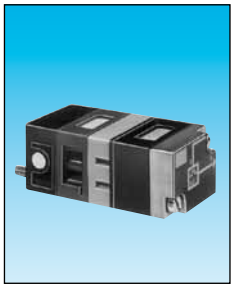



For panel mounting, a pre-drilled hole Ø 10.5 mm si required

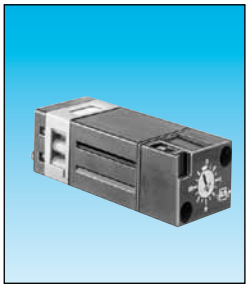
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# Timers

## ■ Fixed and adjustable



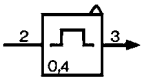


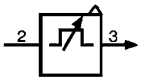


Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive

| | | | | |
|---|---|---|---|---|
| Single impulse generator | Fixed | 81 507 540 | — | — |
| | Adjustable | — | 81 507 720 | — |
| Adjustable frequency generator | | — | — | 81 506 940 |

### Symbol







### Characteristics

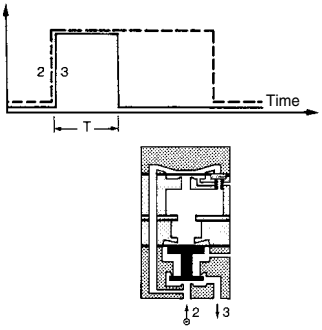
| | | | | |
|---|---|---|---|---|
| Timing | s | 0.4 | 0.1 → 30 | — |
| Frequency | Hz | — | — | 0.02 → 8 |
| Operating pressure | bar | 2 → 8 | 2 → 8 | 2 → 8 |
| Flow at 6 bars | Nl/min | 170 | 170 | 170 |
| Orifice diameter | mm | 2.7 | 2.7 | 2.7 |
| Accuracy | % | ± 5 | ± 5 | ± 5 |
| Min. reset time | s | <0.1 | <0.1 | <0.1 |
| Connection - On sub-base page 4/14-4/15 | | ● | ● | ● |
| Operating temperature | °C | -5 → +50 | -5 → +50 | -5 → +50 |
| Mechanical life | operations | $>10^7$ | $>10^7$ | $>10^7$ |
| Weight | g | 106 | 180 | 85 |

### Accessories

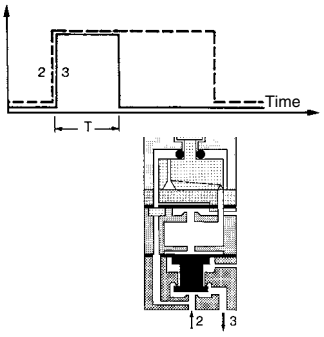
| | | | |
|---|---|---|---|
| Panel mounting adaptators | — | 79 451 904 | 79 451 905 |
| Weight (g) | — | 53 | 53 |

### Principle of operation

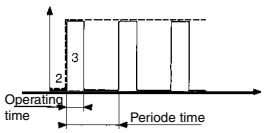
Single impulse generator

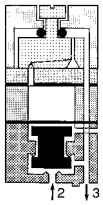



Adjustable impulse generator

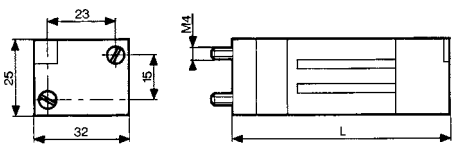



Frequency generator

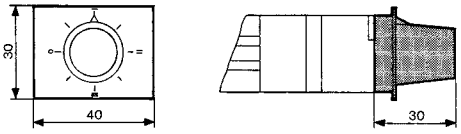


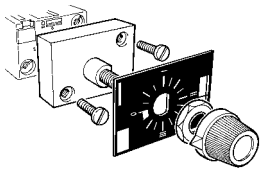

### Dimensions




79 451




| Part numbers | L (mm) |
|---|---|
| 81 507 540 | 73 |
| 81 507 720 | 99 |
| 81 506 940 | 72 |



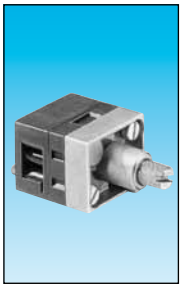
For panel mounting, a pre-drilled hole Ø 10.5 mm si required

**ATEX** version products are available in the following catologues: **Pneumatic products for explosive atmospheres** or on our website **www.crouzet.com**

# Timing Accessories

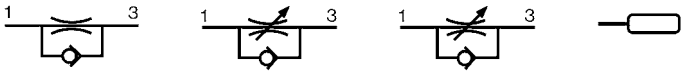
Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive






| One-way in-line fixed flow restritors | Flow at 4 bars Nm³/h | Ø orifice (mm) | | | | |
|---|---|---|---|---|---|---|
| | 0.18 → 0.30 | 0.3 | white | 81 529 003 | — | — | — |
| | 0.35 → 0.50 | 0.4 | yellow | 81 529 004 | — | — | — |
| | 0.58 → 0.77 | 0.5 | red | 81 529 005 | — | — | — |
| | 0.80 → 1.06 | 0.6 | green | 81 529 006 | — | — | — |
| | 1.10 → 1.39 | 0.7 | blue | 81 529 007 | — | — | — |
| | 1.45 → 1.65 | 0.8 | grey | 81 529 008 | — | — | — |
| | 2.30 → 2.80 | 1 | black | 81 529 010 | — | — | — |
| | 0.08 → 0.12 | 0.25 | white | 81 529 025 | — | — | — |
| One-way adjustable flow restritor | | | | — | 81 525 101 | 81 526 001 | — |
| Capacity for timing | 10 • 60 s | | | — | — | — | 79 458 808 |

## Symbol



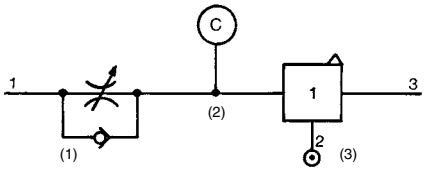

## Characteristics

| | | | | | | |
|---|---|---|---|---|---|---|
| Free flow | | Nl/min | Depending on orifice | 30 | 200 | — |
| Orifice diameter | | mm | Depending on orifice | 0 → 0.5 | 0 → 1.7 | — |
| Operating pressure | | bars | 1 → 8 | 1 → 8 | 2 → 8 | — |
| Timing | | s | — | — | — | 10 → 60 |
| Capacity | | cm³ | — | — | — | 30 |
| Connection | Sub-base page 4/14-4/15 | | — | • | • | — |
| | Push-in connection for semi-rigid tubing (NFE 49100) | mm | Ø 4 | — | — | Ø 4 |
| Operating temperature | | °C | -5 → +50 | -5 → +50 | -5 → +50 | -5 → +50 |
| Weight | | g | 8 | 60 | 70 | 40 |

**Connections**

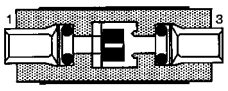
For timing circuit
- One-way flow restrictor 81 525 1 - 81 529 0 (1)
- Reservoir 79 458 018 (2)
- Relay element 81 503 0 - 81 506 0 (3) page 4/6-4/7

Sub-base page 4/14-4/15

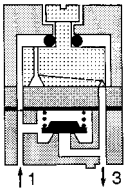



**Principle of operation**

One-way
with fixed flow

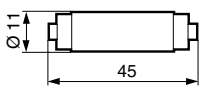



One-way
with adjustable flow

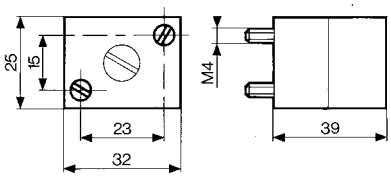



**Dimensions**

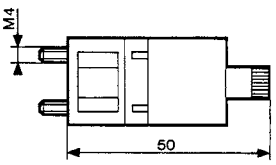
**81 529**



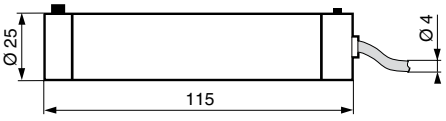

**81 525 101**




**81 526 001**



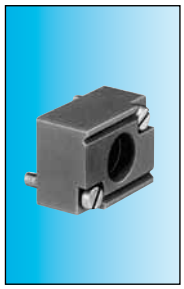
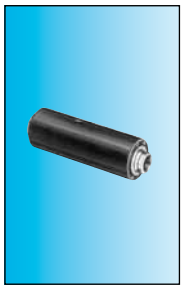

**79 452 808**




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# Regulator accessories

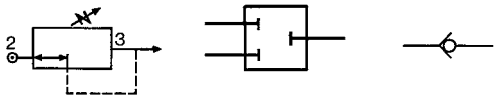
Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive

## Part numbers

| | | | |
|---|---|---|---|
| Mini-détenteur | **81 527 001** | — | — |
| Plug element | — | **81 520 601** | — |
| In-line non-return | — | — | **81 529 901** |

## Symbol

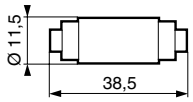



## Characteristics

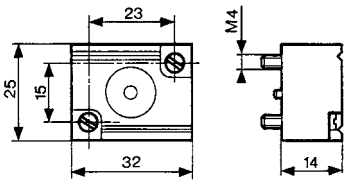
| | | | | | |
|---|---|---|---|---|---|
| Operating pressure | | bars | 2 → 8 | — | 2 → 8 |
| Flow at 6 bars | | Nl/min | 200 | — | 200 |
| Adjustable output pressure | | bar | 0,1 → 8 | — | — |
| Connection | Sub-base | | ● | ● | |
| | Push-in connection for semi-rigid tubing (NFE 49100) | mm | | | Ø 4 |
| Weight | | g | 150 | 70 | 70 |

**Dimensions**

**81 529 901**



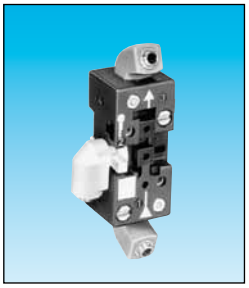

**81 520 601**

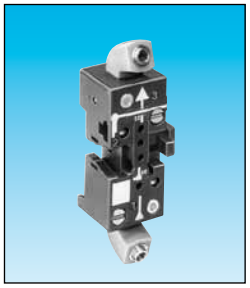



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# Sub-bases for logic elements

Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive





| | | 81 532 104 | 81 532 102 | |
|---|---|---|---|---|
| Two-hand start module | | ● 1 | ● 1 | |
| Manostats - vacuostats | | ● 1 | ● 1 | |
| Leak sensor and amplifier relays | | ● 1 | ● 1 | |
| Logic elements AND Timers | | ● 1 | ● 1 | |
| Regulator accessories | | ● 1 | ● 1 | |
| Memory element | | — | — | |
| Operating temperature | °C | -5 → +50 | -5 → +50 | |
| Electro-pneumatic miniature solenoid | | ● 1 | ● 1 | |

**NB: The number indicates the number of components mounted on the sub-base**

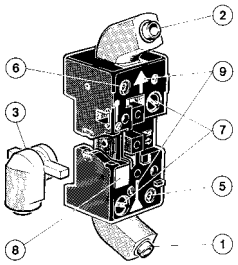
## Characteristics

| | | | | |
|---|---|---|---|---|
| Push-in connection for semi-rigid tubing Ø 4 mm (NFE 49100) | | rotatable | rotatable | |
| Fixation | | DIN rail 35 mm | DIN rail 35 mm | |
| Weight | g | 56 | 52 | |

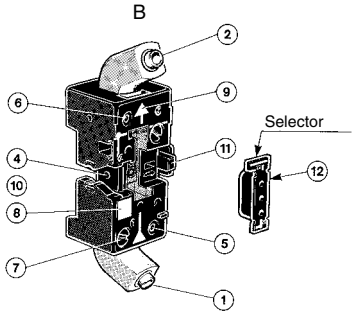
**Connections elements and relays**

**Front connecting**

A



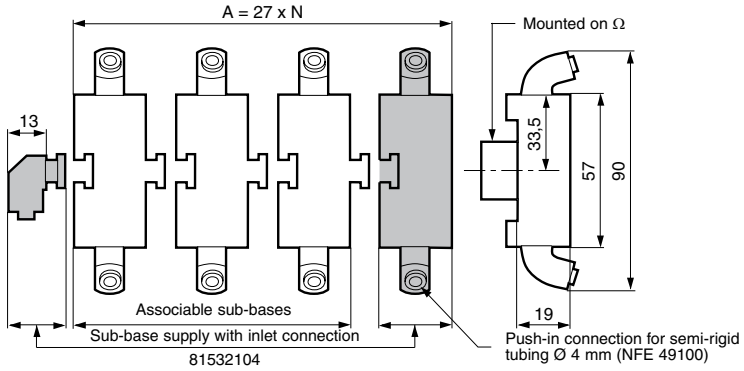

B



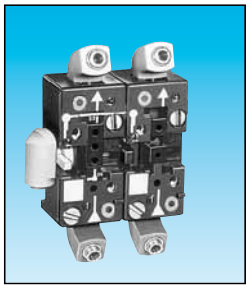

A - Single sub-base or end base
B - Associable sub-base
1 - Input port (green port 1)
2 - Output port (red port 3)
3 - Input/supply port (yellow port 2) Ø 4
4 - Input port integral to sub-base
5 - Input indicator (green)
6 - Output indicator (red)
7 - 1/4 turn screws
8 - Marking tag
9 - Arrow indicating flow direction
10 - Mounting tongue
11 - Mounting groove
12 - Selector

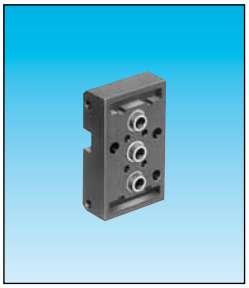
**Dimensions**

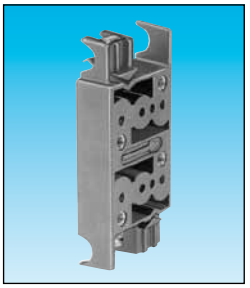
**81 532 104** **3 x 81532102**




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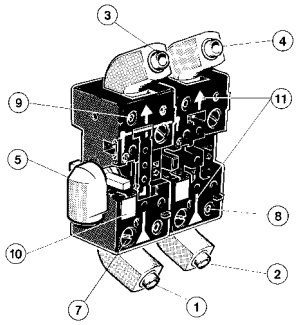


| | 81 542 002 | 81 532 001 | 81 531 001 |
|---|---|---|---|
| Two-hand start module | — | ● 1 | ● 2 |
| Manostats - vacuostats | — | ● 1 | ● 2 |
| Leak sensor and amplifier relays | — | ● 1 | ● 2 |
| Logic elements AND Timers | — | ● 1 | ● 2 |
| Regulator accessories | — | ● 1 | ● 2 |
| Memory element | ● 1 | — | ● 1 |
| Operating temperature °C | -5 → +50 | -5 → +50 | -5 → +50 |
| Electro-pneumatic miniature solenoid | — | ● 1 | ● 2 |

## Caractéristiques

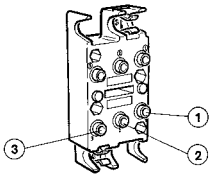
| | | | | |
|---|---|---|---|---|
| Push-in connection for semi-rigid tubing Ø 4 mm (NFE 49100) | | rotatable | rear | rear |
| Fixation | | DIN rail 35 mm | 2 M4 screws | Clips for rails Ø 8 mm |
| Weight | g | 95 | 10 | 35 |

**Memory element sub-base, front and rear connecting**




1 - Input port X1 (green port 1)
2 - Input port X0 (green port 1)
3 - Output port X (red port 3)
4 - Output port X (red port 3)
5 - Supply port (brass port 2)
7 - 1/4 turn screws
8 - Input indicator
9 - Output indicator
10 - Marking tag
11 - Arrow indicating the flow direction

**Rear connection**



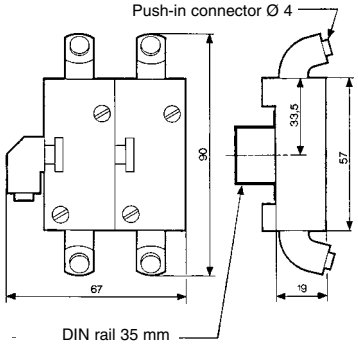

The modular system elements are fixed with two screws on the sub-base.

A locating device on each logic element prevents incorrect assembly.

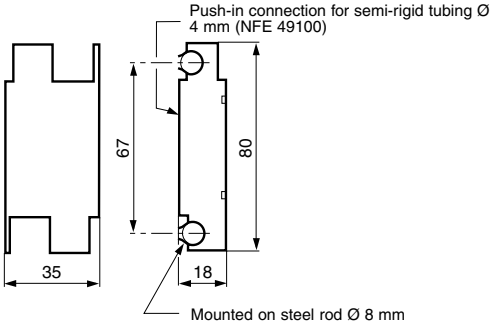
The logic element is connected via the sub-base. This sub-base has 3 instant connections for connecting semi-rigid tubes with outer Ø 4.

1 - Input signal
2 - Signal port for passive logic elements, air supply for active logic elements.
3 - Output signal

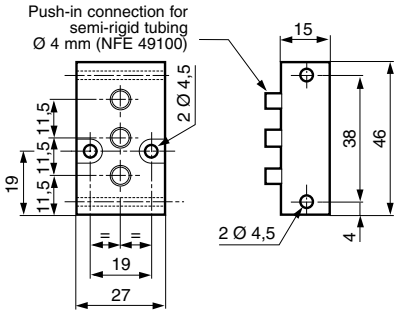
**81 542 002 (for memory 81523201/601)**




**81 531 001**



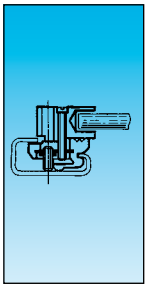
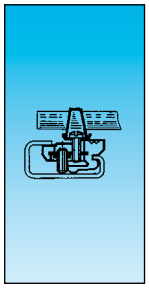
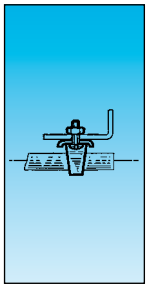

**81 532 001**

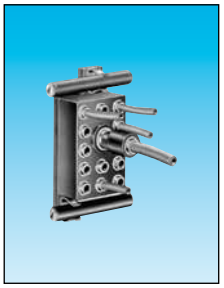



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# Mounting accessories

Also available in **ATEX** version for use in potentially explosive atmospheres in accordance with 94/9/EC Directive

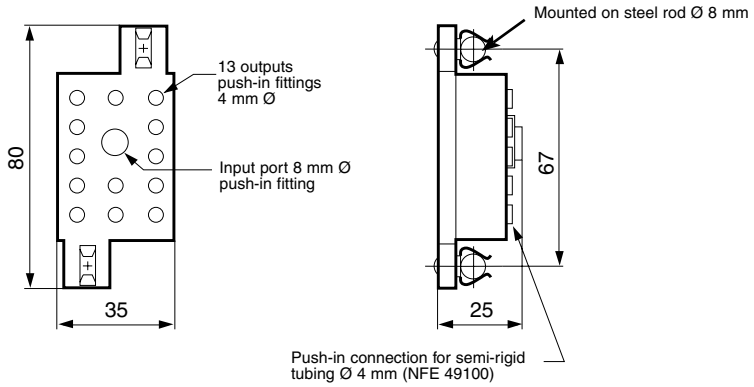


| | | | | | |
|---|---|---|---|---|---|
| Mounting equipment | 81 533 501<br>Hole domino | 81 533 001<br>Clip domino | 79 450 609<br>Bar clips<br>Ø 8 | | —<br>— |
| Supply manifold 13 outputs | — | — | — | | 81 536 801 |

## Characteristics

| | | | | | | |
|---|---|---|---|---|---|---|
| Weight (g) | | 8 | 4 | 80 | | 80 |
| | | For mounting on the end of a zinc-coated mild steel rod Ø 8 mm on an asymmetrical DIN rail | For adjustable mounting on a zinc-coated mild steel rod Ø 8 mm on an asymmetrical DIN rail | Packet of 100 pieces | | |
| Operating temperature | °C | -5 → +50 | -5 → +50 | -5 → +50 | | -5 → +50 |

**Dimensions**
**81 536 804**




4

### Other information

Use Weidmuller plastic labels for marking components part number FW 4734-6.

**ATEX** version products are available in the following catologues: **Pneumatic products for explosive atmospheres** or on our website **www.crouzet.com**

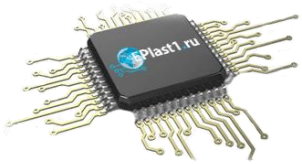
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

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**Факс:** 8 (812) 320-02-42
**Электронная почта:** org@eplast1.ru
**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.