



## Series 900

The 900 series consist of the following components:

- Pressure switch, which transforms a pneumatic signal into an electric one.
- Impulse generator, which transforms a permanent pneumatic signal into an adjustable impulse from 0 to 10 seconds.
- Pneumatic timer (N.C. or N.O.), which cuts or releases a pneumatic signal within an adjustable time.
- Two hands safety valve, which allows a safety use of two hands pneumatic controls (for example two push-button 3/2 N.C. to a certain distance) excluding false signals in case of push-button or valve malfunction.
- Flip-Flop: 5/2 ways valve, single signal actuated, commutes the outlet from 2 to 4 and vice versa at each puls.
- For a correct functioning it's important that inlet pressure be the same or lower than pilot pressure.
- Oscillator valve, 5/2 - G 1/8" with two logic functions "NOT" mounted on board, switches when the pressure in the connected cylinder exhaust chamber is reaching the threshold of "NOT".
- Signal amplifier, 3/2 - G 1/8" N.C. valve actuated by weak signals but higher than 0.05 bar.
- Progressive start-up valve, which is a device that is fitted in between valve or solenoid valve and cylinder allows a gradual filling of the chamber providing a low power cylinder movement. The progressive start-up valve is made of a flow control valve and a 2/2 N.C. valve with 6 mm nominal orifice. The valve is totally open when the pressure in the cylinder reaches 50% of inlet pressure.
- High-low pressure devices, located in the pneumatic circuit between valve and cylinder, allow the function of the cylinder with two different pressures. Example: in case of a locking action, it is possible to approach the required position at a low pressure, then increase to its maximum value in the circuit with the use of an electric signal. They are practically made of a piloted pressure regulator without relieving.

### Construction characteristics

We use corrosion proof material, brass or anodized aluminium and the most appropriate specific mixture for seals.  
If more information is required please contact our technical department.

### Use and maintenance

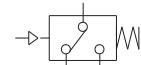
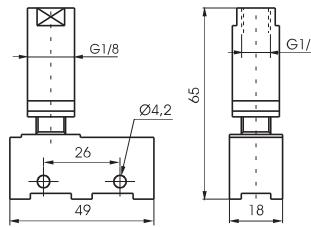
In use pay attention to the minimum and maximum criteria for temperature and pressure, checking and ensure good quality compressed air. In a dirty environment, protect the exhaust ports. In this case, maintenance is minimal and is necessary only if the air is particularly dirty.  
This simple operation it should be carried out by a competent person.

**ATTENTION:** use hydraulic oil class H for lubrication such as CASTROL MAGNA SW32.

► Pressure switch G 1/8"-screw connections

Coding: 900.18.1-**P**

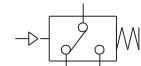
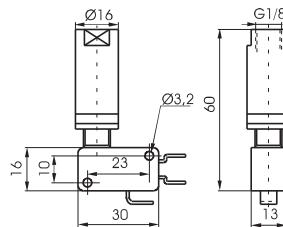
Operational characteristics		PRESSURE
Fluid	Filtered and lubricated air	P
Max. working pressure (bar)	10	1 = Min. switch pressure 1 bar
Temperature °C	-5 ... +70	4 = Min. switch pressure 4 bar
Flow rate microswitch	13 (3) A to 220V~	Weight 75 g
Pilot ports size	G1/8"	



► Pressure switch G 1/8"-spade connections

Coding: 900.18.1/**P**

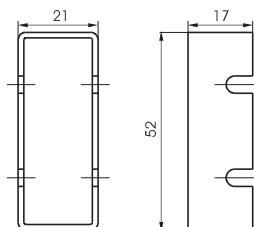
Operational characteristics		PRESSURE
Fluid	filtered and lubricated air	P
Max. working pressure (bar)	10	1-1 = Min. switch pressure 1 bar
Temperature °C	-5 ... +70	1-4 = Min. switch pressure 4 bar
Flow rate microswitch	16 (5) A to 220V~	Weight 60 g
Pilot ports size	G1/8"	



► Switch protection

Coding: 900.18.0

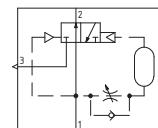
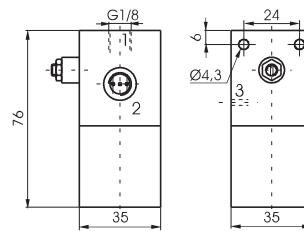
Weight 6 g



► Impulse generator

Coding: 900.18.2N

Weight 325 g





## Accessories - Complementary valves Series 900

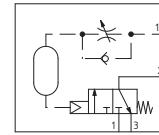
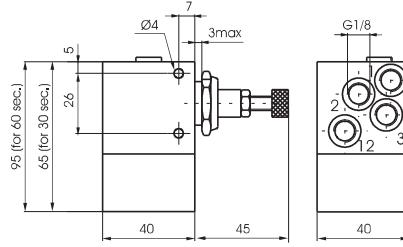
### ► Pneumatic timer N.C. - G 1/8"

Coding: 900.18.1

Operational characteristics	
Fluid	Filtered and lubricated air
Working pressure (bar)	3 ... 10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	130
Orifice size (mm)	2.5

TIME
3 = 0 ... 30 sec.
3.60 = 0 ... 60 sec.

Weight 290 g (30 sec.)  
Weight 350 g (60 sec.)



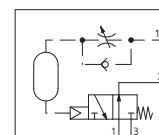
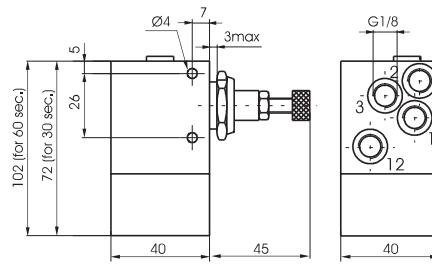
### ► Pneumatic timer N.O. - G 1/8"

Coding: 900.18.1

Operational characteristics	
Fluid	Filtered and lubricated air
Working pressure (bar)	4 ... 10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	130
Orifice size (mm)	2.5

TIME
4 = 0 ... 30 sec.
4.60 = 0 ... 60 sec.

Weight 320 g (30 sec.)  
Weight 380 g (60 sec.)

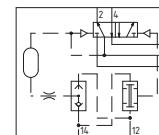
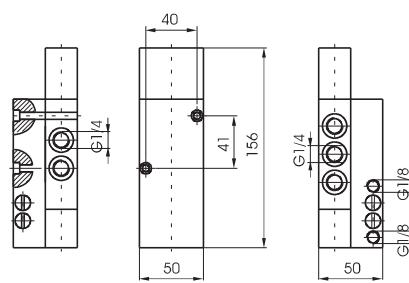


### ► Two hands safety valve G 1/4"

Coding: 900.52.1.1

Operational characteristics	
Fluid	Filtered and lubricated air
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	1030
Orifice size (mm)	7
Working ports size	G1/4"
Pilot ports size	G1/8"

Weight 780 g



Attention : This version is not certified to any safety standard

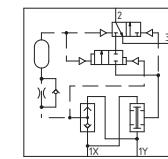
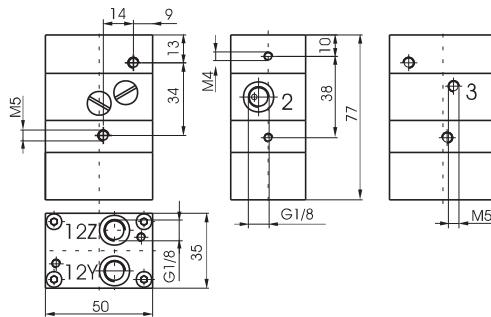
► Two hands safety valve ISO 13851: TYPE IIIA

Coding: 900.18.9

Operational characteristics

Fluid	Filtered and lubricated air
Working pressure (bar)	3 ... 8
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	40
Orifice size (mm)	2.5
Working ports size	G1/8"
Pilot ports size	G1/8"

Weight 340 g



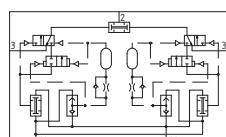
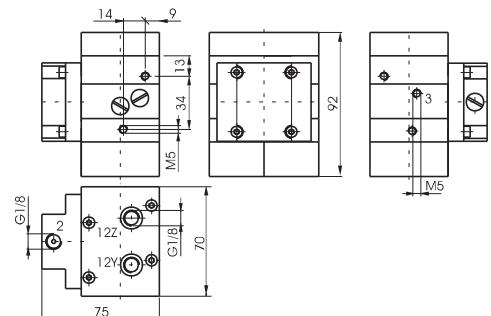
► Two hands safety valve ISO 13851: TYPE IIIB

Coding: 900.18.10

Operational characteristics

Fluid	Filtered and lubricated air
Working pressure (bar)	3 ... 8
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	40
Orifice size (mm)	2.5
Working ports size	G1/8"
Pilot ports size	G1/8"

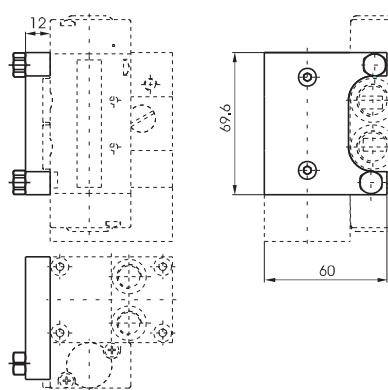
Weight 980 g



► Power valve adaptor (Series 2400)

Coding: 900.18.11

Weight 75 g





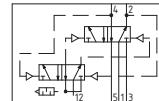
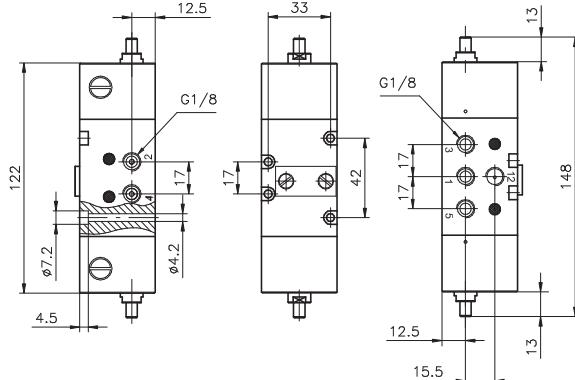
► **Flip-flop valve G 1/8"-Pneumatic command**

Coding: 900.52.1.3

**Operational characteristics**

Fluid	Filtered and lubricated air
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Weight 550 g



Attention: Pressure of signal "12" must be the same or higher than device inlet pressure. The maximum distance between the pilot valve and the device must not exceed 1Mtr. (see pneumatic scheme). Should be necessary to work at a greater distance it is advisable to use a pneumatic-spring shut-off valve positioned at the recommended distance.

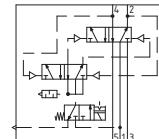
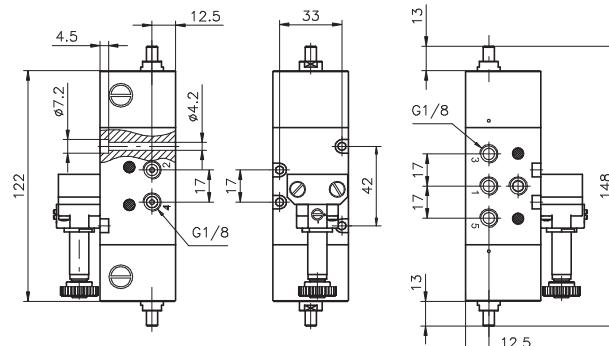
► **Flip-flop valve-Electric command with M2 mechanic**

Coding: 900.52.1.4

**Operational characteristics**

Fluid	Filtered and lubricated air
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

Weight 660 g



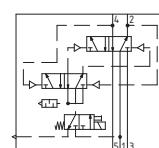
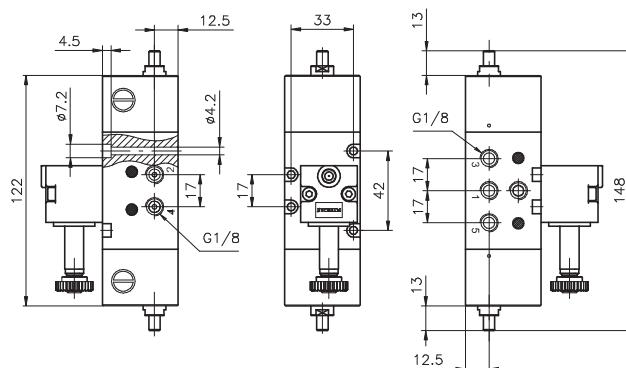
► **Flip-flop valve-Electric command with M3P CNOMO**

Coding: 900.52.1.5

**Operational characteristics**

Fluid	Filtered and lubricated air
Max. working pressure (bar)	10
Temperature °C	-5 ... +70
Flow rate at 6 bar with $\Delta p=1$ (NL/min)	540
Orifice size (mm)	6
Working ports size	G1/8"

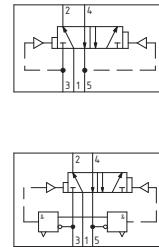
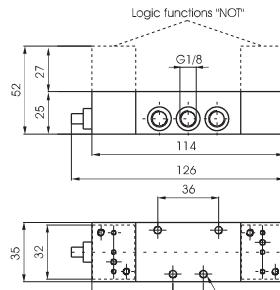
Weight 600 g



► Oscillator valve G 1/8"

Coding: 900.52.F

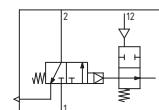
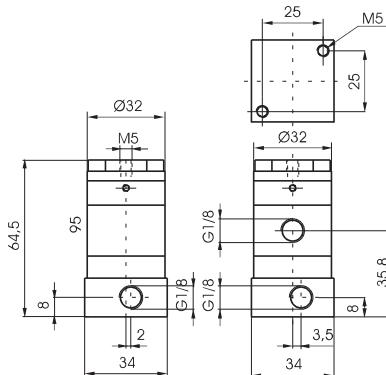
Operational characteristics		FUNCTION
Fluid	Filtered and lubricated air	<b>F</b>
Max. working pressure (bar)	8	5 = without logic functions NOT
Min. working pressure (bar)	2	5C = with logic functions NOT
Temperature °C	-5 ... +70	Weight 600 g
Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	540	
Orifice size (mm)	6	
Working ports size	G1/8"	



► Signal amplifier G 1/8"

Coding: 900.32.6

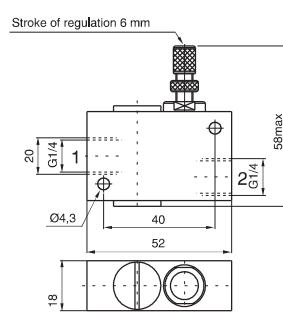
Operational characteristics		Weight
Fluid	Filtered and lubricated air	170 g
Max. working pressure (bar)	10	
Min. working pressure (bar)	0.05	
Temperature °C	-5 ... +70	
Flow rate at 6 bar with $\Delta p = 1$ (NI/min)	130	
Orifice size (mm)	3	
Working ports size	G1/8"	



► Progressive start-up valve G 1/4"

Coding: 900.14.7

Operational characteristics		Weight
Fluid	Filtered and lubricated air	100 g
Working pressure (bar)	2,5 ... 10	Flow rate needle fully open from port 1 to 2 (NI/min.) = 200
Temperature °C	-5 ... +70	
Flow rate from 1 to 2 (NI/min)	760	
Flow rate from 2 to 1 (NI/min)	900	
Orifice size (mm)	6	



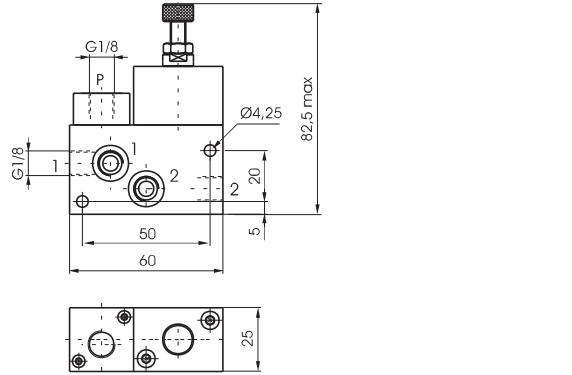


► **High-low pressure device**

**Coding:** 900.18.8.P

<b>Operational characteristics</b>	
Fluid	Filtered and lubricated air
Max. working pressure (bar)	10
Pressure range (bar)	1 ... 4
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	650
Working ports size	G1/8"

Weight 240 g  
with pneumatic pilot

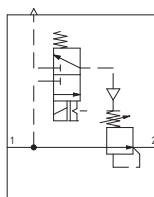
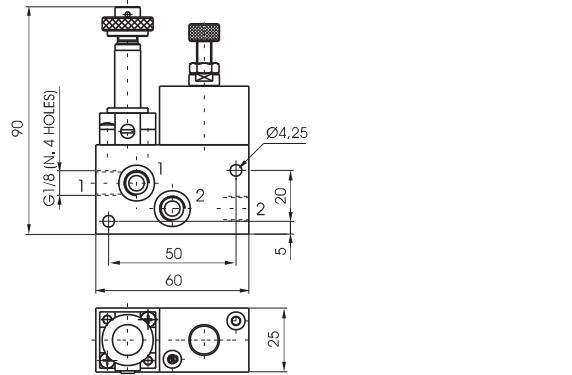


► **High-low pressure device**

**Coding:** 900.18.8.E

<b>Operational characteristics</b>	
Fluid	Filtered and lubricated air
Max. working pressure (bar)	10
Pressure range (bar)	1 ... 4
Temperature °C	-5 ... +50
Flow rate at 6 bar with $\Delta p=1$ (NI/min)	650
Working ports size	G1/8"

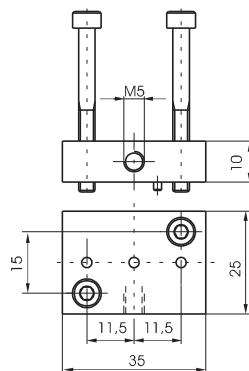
Weight 280 g  
with M2 mechanic



► **External feeding base "NOT" logical element**

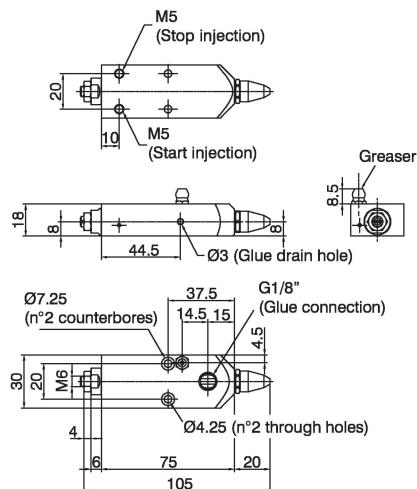
**Coding:** 900.005

Weight 35 g



► Pneumatic glue injector

Coding: 900.19.01



**Construction characteristics**

- External components: nickel-plated brass / stainless steel
- Piloting connections: M5
- Glue connection: G1/8"
- Glue Seal: special PTFE
- Pneumatic seals: NBR
- Grease nipple: Stainless steel
- Spray intensity adjustment screw: Stainless steel

Technical characteristics	
Injection fluid	Vinyl glue
Pressure Glue (bar)	7
Pneumatic fluid piloting	Filtered air. No lubrication needed, if applied it shall be continuous
Opening pilot (bar)	3 ... 6
Closing pilot (bar)	3 ... 6 (or spring)
Temperature °C	-5 ... +70
Weight (g)	285