



Binary counters (FLIP FLOP)

The flip-flop valve (available in two sizes, with electrical or pneumatic actuation) is used for the switching of a bistable actuator (reciprocating movement with two stationary positions) by means of a single pulse command signal (e.g., the opening/closing of bus doors via a single pushbutton).

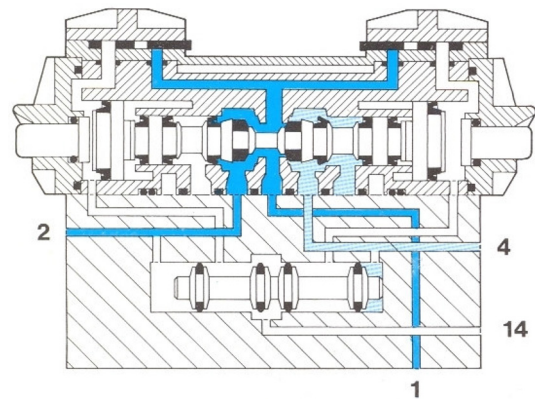
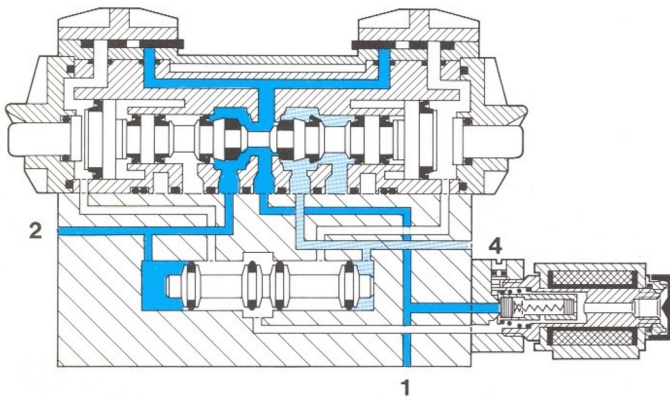


Max. operating pressure	10 bar
Min. actuation pressure	1,5 bar
Ambient temperature	-30 ÷ +80 °C



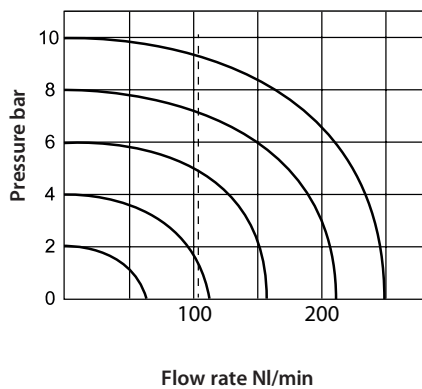
Operating principle and flow rate characteristics

The flip-flop valve integrates a bistable 5/2 valve (with dual pneumatic control) and a diverter module. This mechanism, automatically actuated by the pressure present at the utilization ports, directs the input signal (either pneumatic or from a pilot valve) alternately toward one or the other pilot line of the valve itself



- 1 = Supply
- 2 - 4 = Use
- 14 = Pilot

CHARACTERISTICS



Energizing time

AP 500

13 ms

Response time

AP 520

Lm	ON (t1)	OFF (t2)
0,1	10 ms	20 ms
0,5	12 ms	25 ms
1	15 ms	30 ms
2,5	20 ms	55 ms
5	45 ms	110 ms
10	100 ms	250 ms
15	180 ms	370 ms
20	250 ms	540 ms

BINARY COUNTERS

Code	Way	Ø mm	Control	Ports	Pressure	Flow rate	Weight
			12		bar	NI/min	Kg



AP-500

5/2

2,5

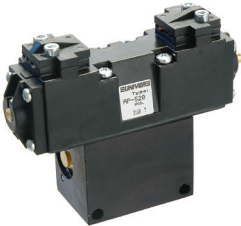
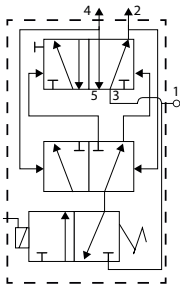
electrical

M5

2,5 ÷ 10

105

0,240



AP-520

5/2

2,5

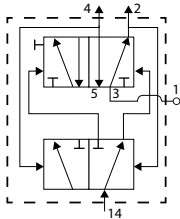
pneumatic

M5

2,5 ÷ 10

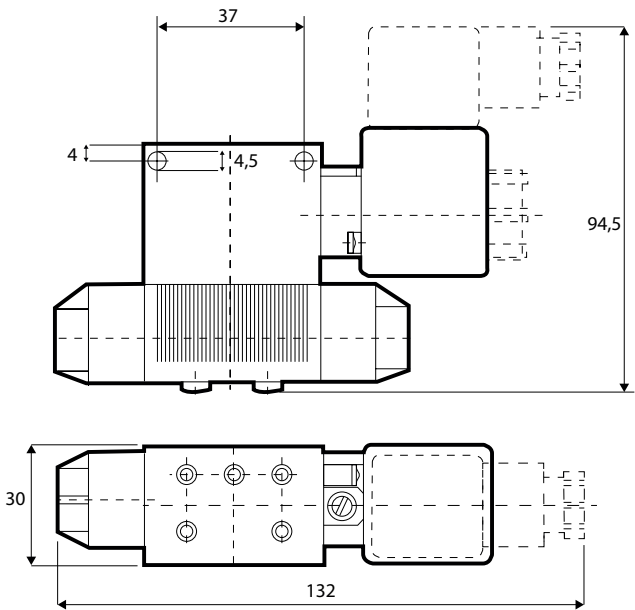
105

0,190

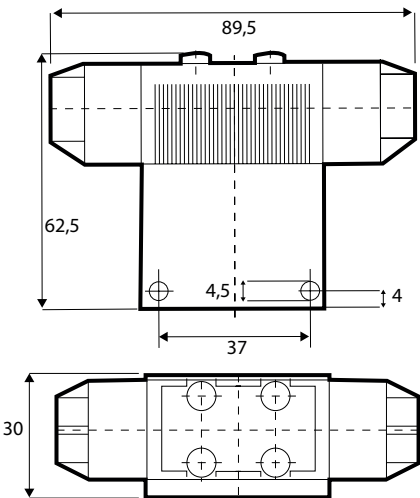


AP-500

AP-520



Manual override: screw-type on the pilot; dual pushbutton on the valve body



Manual override: dual pushbutton on the valve body

COILS

CSA/UL

Possibility of replacement without intervention in the pneumatic circuit

Other voltages available upon request

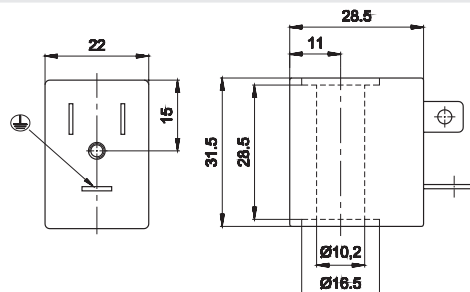
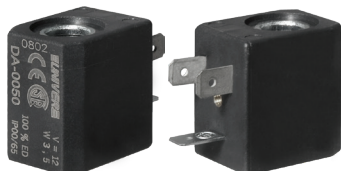
360° rotation on the pilot. Coil winding: H class

Ambient temperature: -10 ÷ +45 °C. Fluid temperature: -10 ÷ +95 °C.

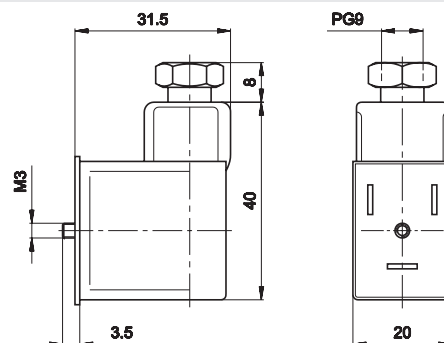
The solenoid valves functioning with 100V-230V must be incorporated (EN60204-1)

Under continuous service a maximum temperature will not compromise the functioning of the coil provided that the working position is ventilated.

Protection class IP65, if used with connector.


COILS U1


Code	Duty cycle ED (a) %	Power consumption W		Tolerance tension %	Rated voltage	Weight Kg
		Hold	Inrush			
DA-0050	100	3,5	3,5	±10	12 V DC	0,06
DA-0051	100	3,5	3,5	±10	24 V DC	0,06
DA-0106	100	5,4 VA (Max)	7,8 VA (Max)	±10	24 V AC/50-60 HZ	0,06
DA-0108	100	5,4 VA (Max)	7,8 VA (Max)	±10	110 V AC/50-60 HZ	0,06
DA-0124	100	5,4 VA (Max)	7,8 VA (Max)	±10	230 V AC/50-60 HZ	0,06

CONNECTOR FOR COILS U1


Code	Coils series	Protection according	Cable connection	Rotation
AM-5110	U1	IP65	PG9	180°

LED available upon request.