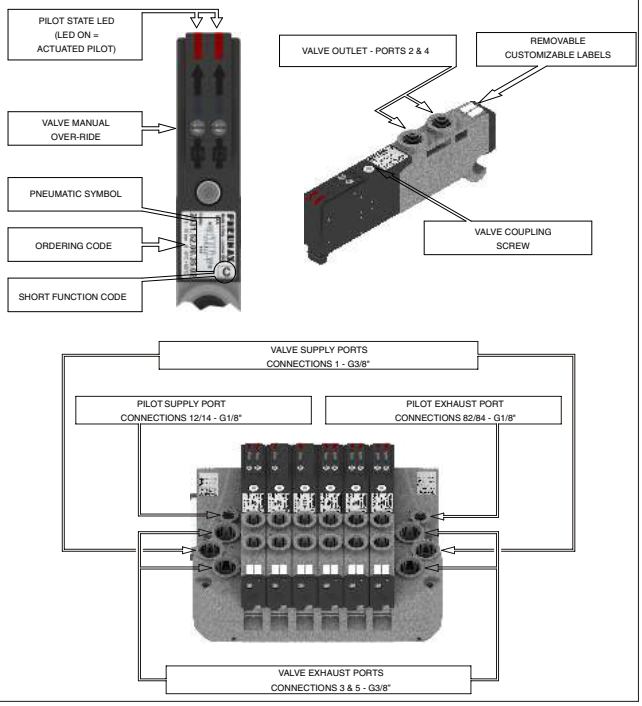
Technical characteristics

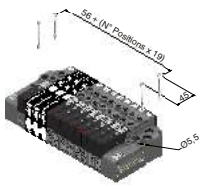
Voltage	24 VDC ± 10% PNP
Pilot consuption	1,2 Watt
Valve working pressure (1-11)	da vuoto fino a 10 bar max.
Pilot working pressure (12-14)	da 3 a 7 bar max.
Operating temperature	-5°C +50°C
Protection degree	IP 65
Fluid	Aria filtrata e lubrificata o non (se lubrificatala lubrificazione deve essere continua)

Attention: dry air must be used for applications below 0°C"

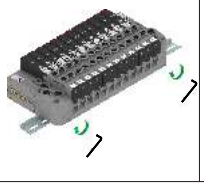


Fastening

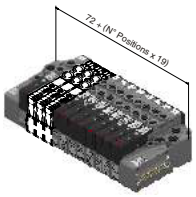
Top fastening



DIN rail fastening

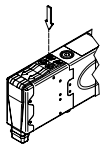


Max size based on the number of valves

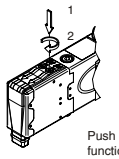


Manual override

NOTE: It is strongly recommended to replace the original position after the use.

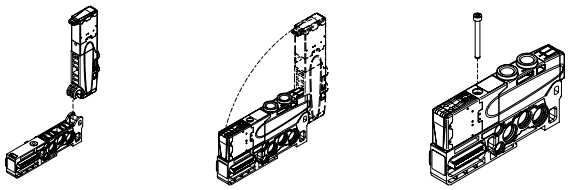


Push to actuate
(when released it moves back to the original position)

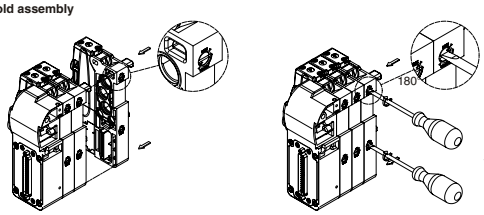


Push and turn to get the bistable function

Valve Installation

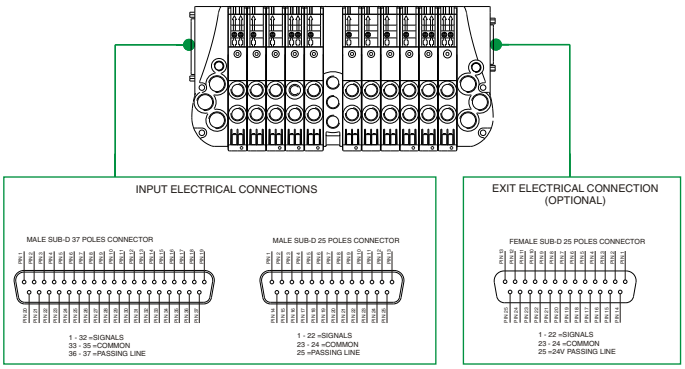


Manifold assembly



The use of a flat screw driver (1x5,5) is recommended

ELECTRICAL CONNECTION



The electrical connection is achieved by a male SUB-D 37 pin connector which is able to manage up to 32 solenoid pilots.
As an option, a male SUB-D 25 pin connector is also available. This connectror can manage up to 22 solenoid pilots.

Bistable 5/2 valve, 5/3 valves and 2x3/2 always require 2 electrical signals, since they are equipped with 2 electrical pilots. The first signal is connected with side 14 pilot, while the second is connected with side 12. Monostable 5/2 valves require a single electrical signal since they are equipped just with side 14 electrical pilot.

The management and distribution of the electrical signals between each valve is obtained by a PCB which receives the signals from the previous module, uses one, two or none according with the type, and carries the remaining ones forward to the next module. As a result, modular sub-bases are available in 2 versions:
- Monostable version uses a PCB which uses one sigle signal and carries forward the remaining ones. It is suitable ONLY for monostable valves.
- Bistable version uses a PCB which uses 2 signals and carries forward the remaining ones.

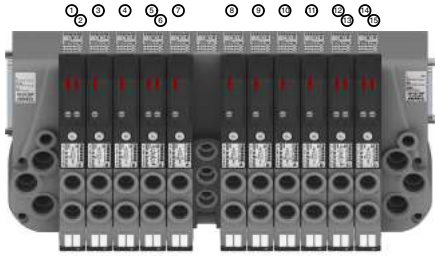
This second solution allows the modification of the manifold (replacement of monostable valves with bistable for example) without having to reset the PLC output layout. On the other hand this solution limits the maximum number of valves:
- 37P input connector = 16 bistable MAX
- 25P input connector = 11 bistable MAX

Intermediate supply & exhaust module is equipped with a dedicated PCB which carries forward all electrical signals using none and allows to place the module anywhere in the battery layout.

All signals not used for the battery configuration can be available for other applications by using a exit manifold equipped with a female SUB-D 25 pin connector.
The number ov available signals depends on the input connection:
- 37 pin input connector Nout=32 - N of allocated signals
- 25 pin input connector Nout=25 - N of allocated signals

See following configuration examples and relevant pin correspondence for input and output SUB-D connector.

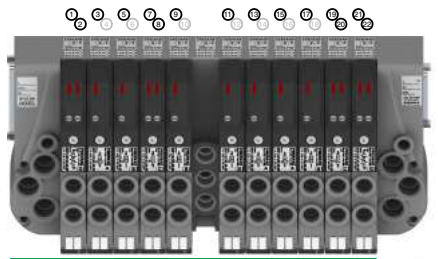
PIN layout for a battery assembled on a mixed configuration of monostable/bistable bases



POS.	1	2	3	4	5	6	7	8	9	10	11	12

PIN 1 = PILOT 14 EV POS.1
PIN 2 = PILOT 12 EV POS.1
PIN 3 = PILOT 14 EV POS.2
PIN 4 = PILOT 14 EV POS.3
PIN 5 = PILOT 14 EV POS.4
PIN 6 = PILOT 12 EV POS.4
PIN 7 = PILOT 14 EV POS.5
PIN 8 = PILOT 14 EV POS.7
PIN 9 = PILOT 14 EV POS.8
PIN 10 = PILOT 14 EV POS.9
PIN 11 = PILOT 14 EV POS.10
PIN 12 = PILOT 14 EV POS.11
PIN 13 = PILOT 12 EV POS.11
PIN 14 = PILOT 14 EV POS.12
PIN 15 = PILOT 12 EV POS.12

PIN layout for a battery assembled just on bistable bases

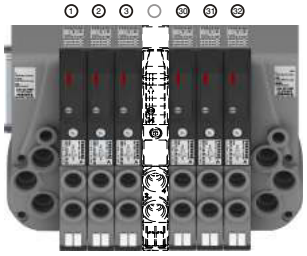


POS.	1	2	3	4	5	6	7	8	9	10	11	12

PIN 1 = PILOT 14 EV POS.1
PIN 2 = PILOT 12 EV POS.1
PIN 3 = PILOT 14 EV POS.2
PIN 4 = NOT CONNECTED
PIN 5 = PILOT 14 EV POS.3
PIN 6 = NOT CONNECTED
PIN 7 = PILOT 14 EV POS.4
PIN 8 = PILOT 12 EV POS.4
PIN 9 = PILOT 14 EV POS.5
PIN 10 = NOT CONNECTED
PIN 11 = PILOT 14 EV POS.7
PIN 12 = NOT CONNECTED
PIN 13 = PILOT 14 EV POS.8
PIN 14 = NOT CONNECTED
PIN 15 = PILOT 14 EV POS.9
PIN 16 = NOT CONNECTED
PIN 17 = PILOT 14 EV POS.10
PIN 18 = NOT CONNECTED
PIN 19 = PILOT 14 EV POS.11
PIN 20 = PILOT 12 EV POS.11
PIN 21 = PILOT 14 EV POS.12
PIN 22 = PILOT 12 EV POS.12

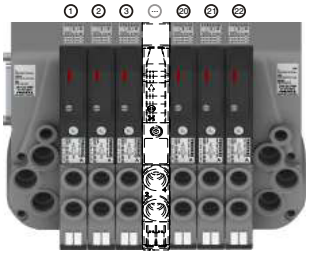
PIN layout for batteries of monostable EV assembled on monostable bases (37P and 25P input)

37P



POS.	1	2	3	...	30	31	32

25P



POS.	1	2	3	...	20	21	22