



PNEUMATIC TRAINER



DL 8161

Experiments

- Single cylinder circuits with or without speed regulation
- Circuits with logic devices
- Circuits with delay devices
- Single or continuous sequence control of two or more cylinders
- Circuits with emergency control
- Memory circuits

Trainers for demonstrations and experiments in the pneumatic field. The trainer includes a metal frame supporting the following modules:

- A pneumatic board, where all the components are mounted and identified through a clear symbol. They include: 2 double-acting cylinders with 3 return orifice check valves, 4 roller lever and 1 lever 3/2 valves, 2 stable and 2 unstable 5/2 valves, 2 AND, 2 OR and 1 NOT, 1 throttle valve, 1 capacity, 1 fast relief valve and 1 splitter. Supplied with 75 m of $\varnothing 4$ and 3 m of $\varnothing 6$ plastic tube, 10 tees and 10 plugs, as well as 1 pipe cutter, service manual and exercise book with experiments.
- An air supply vertical board, providing 1 lever main switch, 1 filter, 2 pressure regulators with 2 pressure gauges, 1 mushroom and 3 digital 3/2 push-buttons, 1 lever 5/2 selector and 1 digital 5/2 push-button.

ELECTRO-PNEUMATIC TRAINER



DL 8171

Experiments

- Circuits with single and double-acting cylinders
- Circuits with logic controls
- Circuits with relays
- Circuits with timers
- Circuits with multiple cylinder sequences
- Driving of circuits with programmed logic sequence, using an optional PLC

Trainers for demonstrations and experiments in the electro-pneumatic field.

The trainer includes a metal frame supporting the following modules:

- A pneumatic board, where all the components are mounted and identified through a clear symbol. They include: 6 magnetic double-acting cylinders with 12 flow regulators and 12 proximity sensors, 4 stable and 2 unstable 5/2 valves, 10 unstable 2/2 solenoid valves and 1 splitter. Supplied with 50 m of $\varnothing 4$ and 3 m of $\varnothing 6$ plastic tube, 1 tee and 5 plugs, as well as 1 pipe cutter, service manual and exercise book with experiments.
- An electro-pneumatic board, that, in addition to providing the terminal board for limit switches and valve solenoids, includes: 1 emergency and 4 control push-buttons, 1-2PDT switch, 1 delayed pickup and 1 delayed drop-out time relay, 5 auxiliary contactors with 6 changeover contacts each and 3 signal lamps.
- An air supply vertical board, providing 1 lever main switch, 1 filter, 2 pressure regulators with 2 pressure gauges, 1 mushroom and 3 digital 3/2 push-buttons, 1 lever 5/2 selector and 1 digital 5/2 push-button.

NOTE: the electro-pneumatic bench DL 8171 can be connected to a PLC, such as our DL 2210A or DL 2210B.

ACCESSORY: both the pneumatic and electro-pneumatic benches need an air compressor such as our DL 8110SLZ.