# Solenoid Valve

Electrical and pneumatic connection guide

## 1. Electrical connections

**1.** Undo and remove the retaining screw, then unplug the connector from the solenoid coil.

**2.** Use a small flat-bladed screwdriver or the removed screw to push the terminal block out of the plastic connector housing.

**3.** The terminal block has three connections: **1**, **2** and **protective earth** (earth symbol). Connect the wires according to the coil type:

**DC coil:** connect the positive (+) wire to terminal **1** and the negative (-) wire to terminal **2**.

**AC coil:** connect the live (L) wire to terminal **1**, the neutral (N) wire to terminal **2**, and the protective earth wire to the earth terminal.

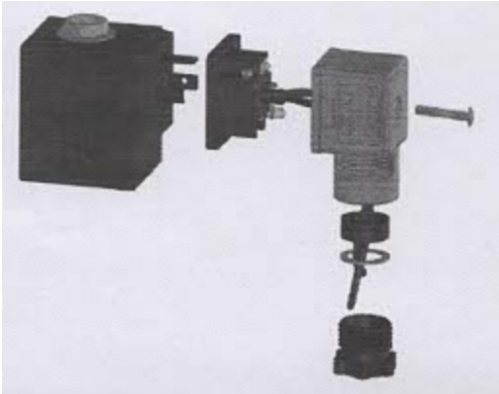


**Figure 2.** Solenoid coil connector assembly.

## 2. Pneumatic connections

Depending on the type, the air solenoid valve has three or five threaded pneumatic ports.

**3/2 valves** have one air inlet, one outlet and one exhaust port. **5/2 and 5/3 valves** have one inlet, two outlets and two exhaust ports. The port positions are shown in Figure 3.

**WARNING:** Exhaust ports must be fitted with silencers to reduce the noise of escaping air. Silencers also protect the valve from external contamination, which can cause damage in severe cases.

### Port identification

| Port | Function |
|---|---|
| P | Compressed air inlet |
| A | Air outlet 1 |
| B | Air outlet 2 |
| R | Exhaust 1 |
| S | Exhaust 2 |

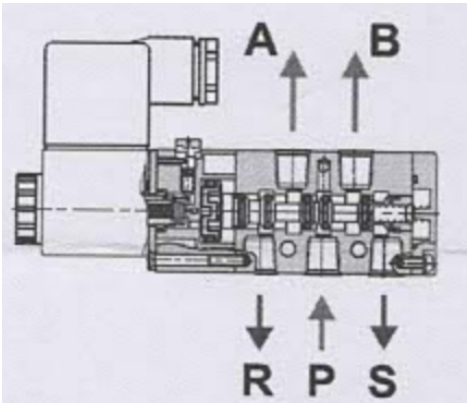



**Figure 3.** Pneumatic port arrangement.

**A:** outlet when the coil is energised.
**B:** outlet when the coil is de-energised.
As indicated in the supplied diagram.