

You said: pneumatic fitting AC 2010-02

The **AC 2010-02** is an industry-standard model code for a **Pneumatic Filter, Regulator, and Lubricator (FRL) Air Source Treatment Unit**. It cleans, regulates, and lubricates compressed air before it reaches downstream pneumatic tools or machinery. [[1](#), [2](#), [3](#), [4](#), [5](#)]

Key Technical Specifications

- **Port Size:** 1/4" PT / BSP threaded ports.
- **Pressure Range:** 0.05 to 0.85 MPa (approximately 0.5 to 8.5 Bar).
- **Max Pressure:** Up to 1.0 MPa (10 Bar).
- **Temperature Range:** 5°C to 60°C.
- **Filter Element:** Typically 5 to 40-micron copper or bronze filter.
- **Lubricating Oil:** Recommended usage with Turbine No. 1 Oil (ISO VG32). [[1](#), [2](#), [3](#), [4](#), [5](#), [6](#)]

Main Components and Functions

- **Air Filter (F):** Captures water vapor, dirt, and solid impurities concentrated during air compression. This prevents rust and scaling inside downstream pneumatic tools. [[1](#), [2](#)]
- **Pressure Regulator (R):** Adjusts and stabilizes fluctuating input air to a constant, reliable output pressure via a control knob. [[1](#), [2](#)]
- **Air Lubricator (L):** Injects a fine, metered oil mist into the clean air line. It reduces internal friction and extends the service life of cylinders and valves. [[1](#), [2](#), [3](#), [4](#)]

Compatible Fittings and Accessories

The unit features internal 1/4" female threads on both the inlet and outlet ports. To connect standard PU pneumatic tubing, you will typically need **1/4" threaded push-to-connect male fittings**: [[1](#), [2](#), [3](#), [4](#)]

- **PC8-02:** Connects 8mm OD tubing to the 1/4" port.
- **PC10-02:** Connects 10mm OD tubing to the 1/4" port.
- **PC6-02:** Connects 6mm OD tubing to the 1/4" port. [[1](#), [2](#), [3](#), [4](#), [5](#)]

Are you planning to install this unit on a **specific air compressor**, or do you need help selecting the **right size fittings** for your existing hose setup?