

You said: pneumatic fitting PL 1001

A **PL 1001** (or PL10-01) pneumatic fitting is a standard **90-degree push-to-connect male elbow fitting** used to link an air tube to a threaded connection. [\[1, 2\]](#)

## Naming Breakdown & Specifications

The model code standardizes the exact sizing configurations across major manufacturers like Airtac and PISCO: [\[1, 2\]](#)

- **PL:** Identifies the physical form as a **Male Elbow** (90° angle).
- **10:** Denotes the **10 mm Outer Diameter (OD)** for the push-in tube connection side.
- **01:** Denotes a **1/8" thread connection size** on the opposite side. Depending on the brand, the letter modifier following it specifies the thread type, such as PT, R, or BSPT. [\[1, 2, 3, 4, 5\]](#)

## General Technical Specifications

- **Compatible Tubing:** Best paired with flexible **Polyurethane (PU)** or **Soft Nylon** air lines. [\[1, 2, 3\]](#)
- **Working Pressure:** Operates seamlessly between **0 to 1.0 MPa** (up to 10 kgf/cm<sup>2</sup>). [\[1, 2\]](#)
- **Temperature Range:** Safely handles a temperature threshold from **0°C up to 60°C** (varies up to 70°C for stainless models). [\[1, 2, 3\]](#)
- **Body Construction:** Typically built from a highly durable **composite resin (PBT)** body paired with a treated nickel-plated brass thread section to resist corrosion. [\[1, 2, 3\]](#)
- **Pre-applied Sealant:** Most versions arrive with pre-applied Teflon sealant right on the 1/8" threads to offer immediate leak-proof sealing upon installation