

You said: PNEUMATIC AIR SILENCER

A **pneumatic air silencer** (also known as a pneumatic muffler) is a mechanical device used to **vent pressurized air safely** into the atmosphere while drastically reducing the loud, dynamic noise generated by industrial exhaust. Beyond sound suppression, these components protect hardware by **preventing dust, dirt, and contaminants from entering** vulnerable open valve exhaust ports. [\[1, 2, 3, 4\]](#)

## Key Technical Functions

- **Noise Reduction:** Typically lowers sound emissions by **15 dB(A) to 35 dB(A)** to comply with workplace safety regulations. [\[1, 2\]](#)
- **Velocity Management:** Slows down the escaping airflow and diffuses it across a porous surface area to eliminate harsh, localized air blasts. [\[1, 2, 3, 4\]](#)
- **System Filtration:** Captures particulate matter and traps airborne oil mists before they can pollute surrounding workspaces. [\[1, 2\]](#)
- **Flow Integration:** Specialized units integrate adjustable throttle needles to allow users to control machine cylinder operating speeds concurrently. [\[1, 2\]](#)