

Silencer:

Silencers are used to reduce noise associated with internal combustion engine exhausts, high pressure gas or steam vents, compressors and fans. They attenuate and/or absorb air-borne sound waves propagated in a flowing medium. These examples lead to the conclusion that a silencer allows the passage of fluid while at the same time restricting the free passage of sound. They are normally custom-designed equipment.

Advantages:

- No moving parts
- Low maintenance cost
- No limit of operating pressure
- No limit of operating temperature
- Applicable when access to the interior of a noise containing enclosure is required

Applicable Codes and Standards:

- ASME Sec. VIII, div. 1
- ASTM E477

Types:

Depending on the type of noise source, stream pressure, temperature and flow rate a special kind of silencer may be used. Muffling devices may function in anyone or any combination of three ways: they may suppress the generation of noise; they may attenuate noise already generated; and they may carry or redirect noise away from sensitive areas. Kara Sanat silencers include absorptive-diffusive mechanism to reduce the noise and are useful in both inline and exhaust applications.

- **Vent Silencers:** They use both sound absorbing material and diffuser to reduce the noise. Usually mounted on relief devices such as boilers, start-up ejectors and compressors.



- **Inline Silencers:** They are mounted on the outlet flow ports of the noise generating equipment such as ejectors.

