Quality Engineering * Manufacturing

Chemical Air Transfer Systems

By: Standard Sheet Metal Works LLC.

Properties

- **Physical Properties**
  - **C.A.T.S., as manufactured by *Standard Sheet Metal Works LLC,* is a round duct product made from carbon steel, galvanized steel, 304 stainless steel or 316L stainless steel. It is seam welded with Van Stone Flanged ends, ½" flanged ends, or raw ends. All C.A.T.S., Chemical Air Transfer System products are manufactured at or above SMACNA specifications.**
  - **Type 304 Stainless Steel is a low carbon variation of general purpose stainless steel. It offers excellent resistance to a wide range of corrosives and atmospheric exposures.**
  - **Type 316L Stainless Steel is an extra low carbon variation of type 316 stainless steel. It has the best corrosion resistance of the standard stainless steels. It is resistant to pitting and most chemicals.**
  - **Carbon Steel is a common material used in industrial duct systems with the advantage of being fabricated, welded and painted easily. It is not recommended for temperatures above 650°F or for protection against corrosive materials.**
  - **Galvanized Steel construction provides protection from atmospheric exposures. However, it is not recommended for use in systems transferring corrosive aerosols. Galvanized steel should not be used for temperatures exceeding 400°F.**
- **Thermal Properties**
  - **The thermal rating of C.A.T.S. is 250° F. maximum temperature due to joint seals and expansion restrictions.**