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Sealux -Metal Jacketed Gaskets

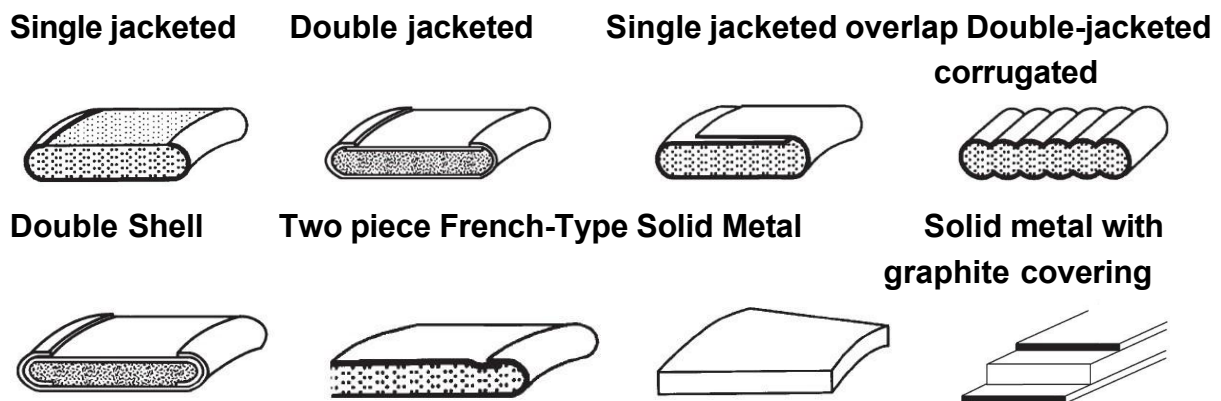
A metal jacketed gasket consists of a metallic casing enclosing a soft filler material. The filler provides the gasket with impact resistance, while the metal jacket ensures overall sealing and also protects the filler against pressure, temperature variations, and/or corrosion.

They are traditionally used in heat exchangers as well as in pumps and valves. However, the impact resistance and recovery properties of these gaskets are limited. Metal jacketed gaskets require smooth, flat flange surfaces and a high bolt load.

Profiles

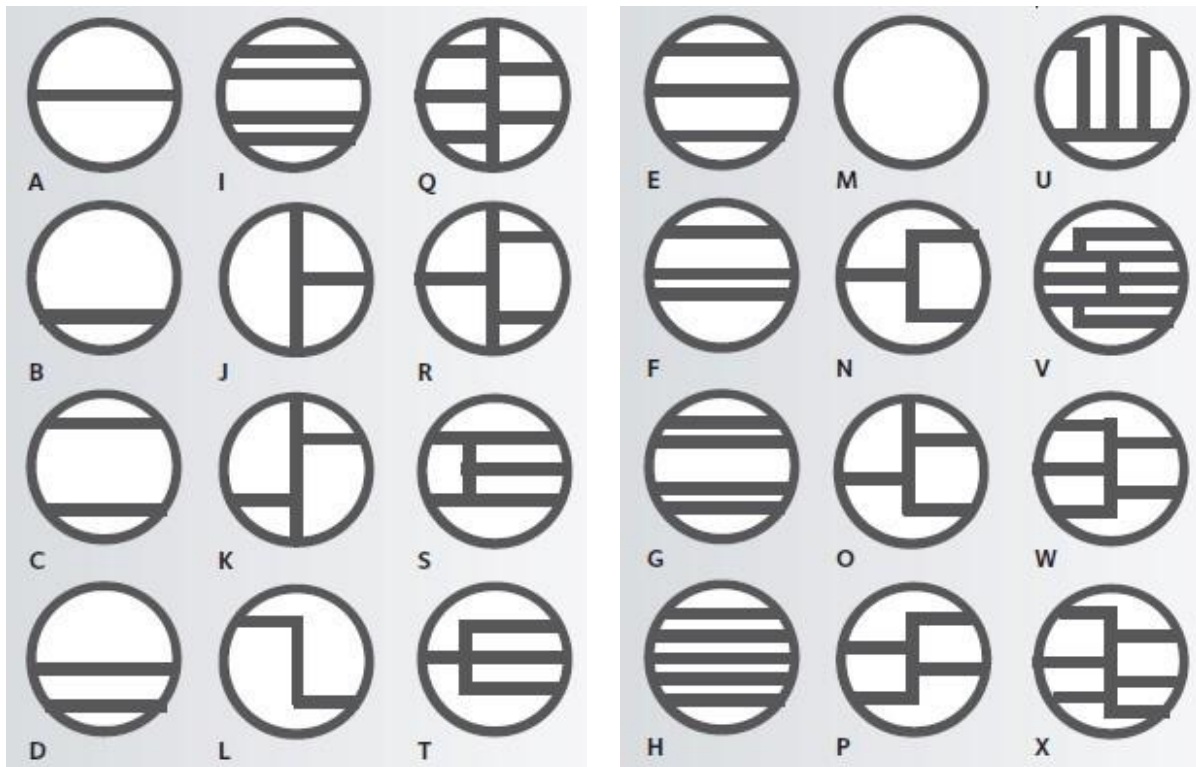
Metal jacketed gaskets can be manufactured in several profiles.

Type of Jacket



The choice of jacket type depends on the application and the installation constraints.

Gasket Configuration



The bars can be welded or manufactured as a single piece, depending on the application.

Materials

The materials used in the manufacture of metal jacketed gaskets fall into two categories: jacket materials and filler materials.

Metal jackets can be made from aluminum, copper, carbon steel, various stainless steels, nickel alloys, and titanium. The choice depends on the operating temperature and the service environment (corrosion, etc.).

The filler is generally made of PTFE, aramid fiber, or graphite. The selection depends on the required resilience, compressibility, and the chemical environment.