

Gasket Selection

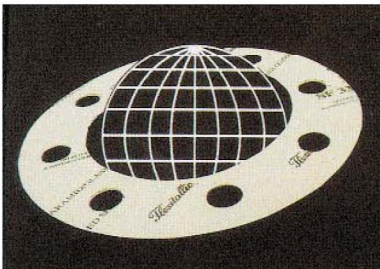
Gaskets can be classified into three categories: soft cut, semi-metallic and metallic types.

The physical properties and performance of a gasket will vary extensively, depending on the type of gasket selected and the materials from which it is manufactured.

Physical properties are important factors when considering gasket design and the primary selection of a gasket type is based on the following:

- Temperature of the media to be contained
- Pressure of the media to be contained
- Corrosive nature of the application
- Criticality of the application

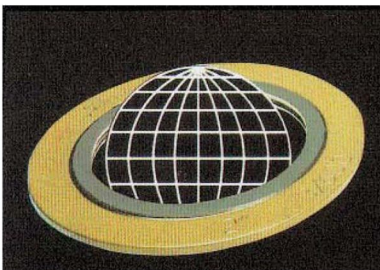
Soft Cut



Sheet materials are used in low to medium pressure services. With careful selection these gaskets are not only suitable for general service but also for extreme chemical services and temperatures.

Types: Compressed Fiber Sheets, PTFE, Biaxially Orientated Reinforced PTFE, Graphite, Thermiculite, Insulating Gaskets.

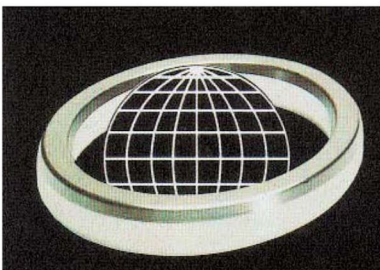
Semi-metallic



These are composite gaskets consisting of both metallic and non-metallic materials. The metal provides the strength and the resilience of the gasket and the non-metallic component provides the conformable sealing material. These gaskets are suitable for low and high pressure and temperature applications. A wide range of materials is available.

Types: Spiral Wound Gaskets, Flexpro Gaskets (covered serrated metal core), Metal Jacketed Gaskets, MRG's (metal reinforced gaskets).

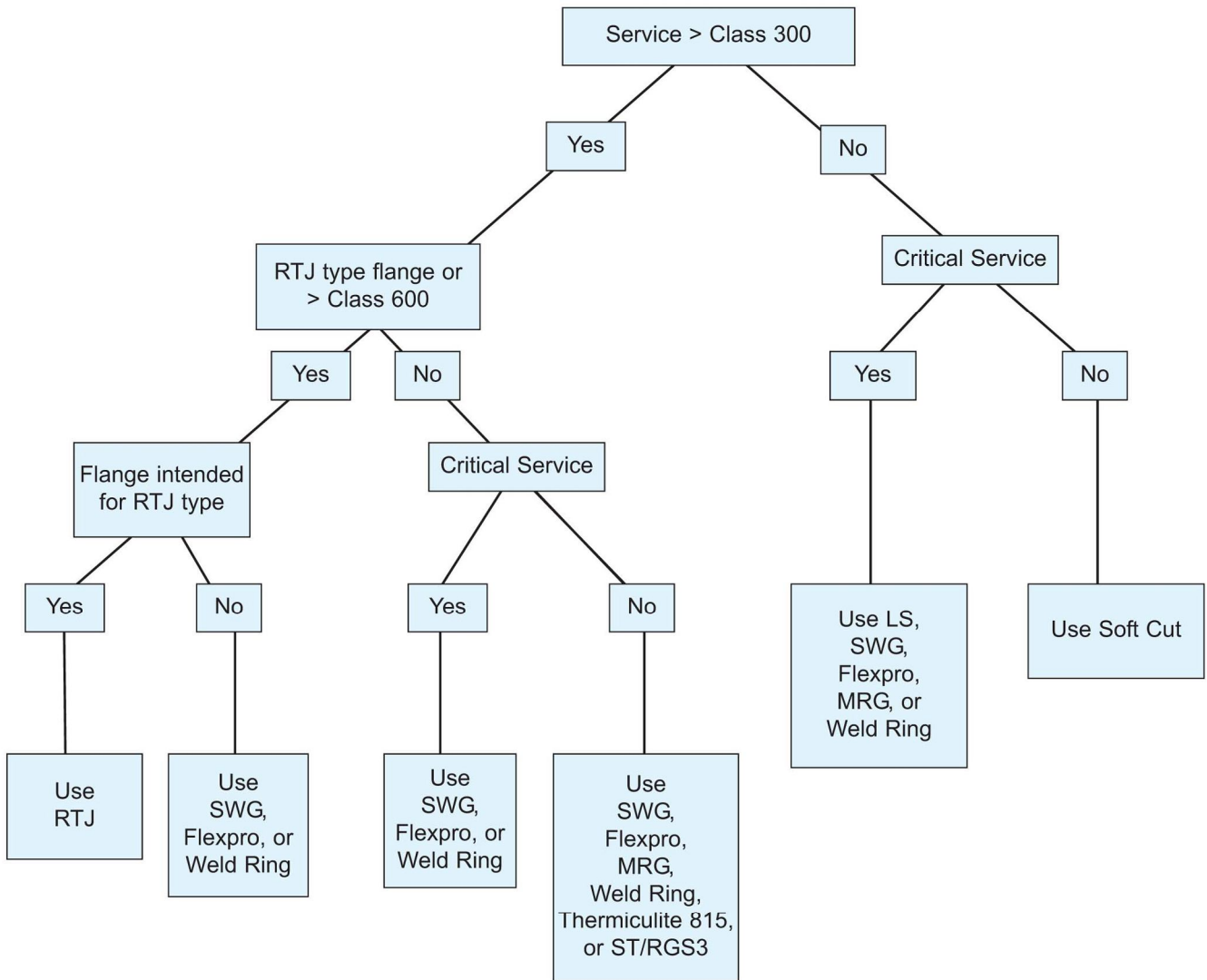
Metallic



These gaskets can be fabricated in a variety of shapes and sizes recommended for use in high pressure/temperature applications. Except for weld ring gaskets, high loads are required to seat metallic gaskets, as they rely on the deformation or coining of the material into the flange surfaces.

Types: Ring Type Joints, Lens Rings, Weld Rings, Solid Metal Gaskets.

Gasket Selection



Select sealing material and metal type (when appropriate) on basis of service, temperature, and nature of medium.

Soft cut gaskets should always be of the minimum thickness consistent with the style of the flanges to be sealed, and compatible with the medium.