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Metal spiral-wound gaskets

Description

The spiral-wound gaskets are made of metal tape with a specially shaped profile coupled with a filler tape (graphite, ceramic or glass fibre, PTFE or mica), both uniformly wound with constant winding tension. The unique metal profile has an elastic action that guarantees a perfect seal under all fluctuating temperature and pressure conditions. They can be assembled to a centring ring that may be external, internal or both. The rings are used for precise purpose: the inner ring has an antiturbulence function, since it usually has an internal diameter equal to the internal diameter of the flange. It prevents the deposition of material in the gap between flanges and is normally constructed with the same material as the spiral, so it protects it against corrosion and eliminates any flange erosion. The outer ring serves as a centering device between the bolts, prevents lateral expansion of the seal and serves as a reference shim for correct assembly.

Applications

Oil refineries, chemical industries, plants for the production and transformation of steam and power stations.

section	Construcion characteristics
	Simple spiral without containment rings
	Spiral with outer centering ring
	Spiral with inner centering ring
	Spiral with inner and outer centering rings
	Spiral with lightweight outer centering ring
	Spiral with centering on two diametrically opposed bolts

Standard sizes

For orders, indicate inches or DN, series or PN, tape or filler material, whether an internal ring, external ring or both and their materials. On request, gaskets can be produced in non-standard sizes

Characteristics

Maximum operating temperature	
- with filler in PTFE	260°C
- with filler in GRAFITE	550°C
Minimum temperature for cryogenic fluids*	-200°C
Operating pressure a 500°C*	186 Kg/cm^2

* The maximum operating conditions depend on many factors such as the dimensions of the gasket, the torque value between the flanges, etc.