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GAMSPIR® Spiral wound gaskets

The GAMSPIR gasket is constructed of alternating plies of preformed steel tape and non-metallic soft material. The typical spiral wound gasket consists of a spiral, inner, and outer ring.

These types of gaskets are recommended for petrochemical, chemical, and power plant industries. The most commonly used materials for soft filler are PTFE or expanded graphite, which provide high thermal and chemical resistance. The spiral part protects against the "blowout" phenomenon and makes them less susceptible to damage caused by mistakes during installation. GAMSPIR requires lower stress gaskets than grooved gaskets.

Working conditions (parameters):

- Pressure: from 2500 psi or 160 bar
- Temperature: from -220°C to 550°C

Standard materials:

- Inner and outer ring: SS 304; SS 304L; SS 316L
- Steel tape: SS 304; SS 304L; SS 316L
- Soft filler: PTFE; expanded graphite

Dimensions:

SWG GAMSPIR are manufactured according to the following standards:

ASME B16.20

PN-EN 1514-2

PN-EN 12560-2

Non-standard dimensions:

At the customer's request, it is possible to manufacture spiral wound gasket of another non-standard dimension and material for different working conditions.

Calculating coefficients:

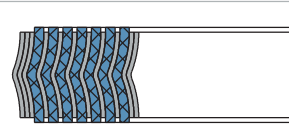
Marking/material			ASME s. VIII		AD-2000 Merkblatt		DT-UC-90/WO-0/19						
			y MPa	m	k_o, k_b N/mm	k_t mm	σ_m MPa	σ_r MPa	Value of the "b" coefficient of gaskets in temperatures				
									20°C	100°C	200°C	300°C	400°C
GAMSPIR I O IO	depending on a filler	graphite	35,6	2,1	49,5 b_o	1,4 b_o	20,5	5 p_o	1	1	1	1	1
		PTFE	38,7	2,8	55,0 b_o	1,4 b_o	27,0	5,5 p_o	1,1	1,2	1,6	-	-

All the information contained in this catalogue is based on years of experience in the manufacturing and use of these products. Due to the fact that the operation of a gasket in a bolted flange connection depends on many factors resulting from the method of installation, the operating parameters of the installation and the sealed medium, the provided parameters are indicative and do not constitute grounds for claims. The specific application of the products requires contact with the manufacturer.

TYPES OF CONSTRUCTION

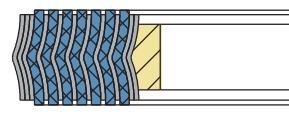
GAMSPIR®

A spiral wound gasket without a centering ring. This type is used only with tongue and groove faced flanges. Not recommended for flat face or raised face flanges due to issues with centering the gasket properly on the flange.



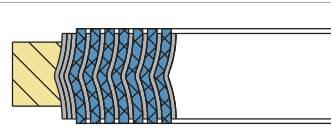
GAMSPIR® I

A spiral wound gasket with an inner ring. Used for male and female flanges, the inner ring improves the stiffness of the spiral element and prevents the gasket from being compressed beyond its design limit.



GAMSPIR® O

A spiral wound gasket with an outer ring. Used for flat face and raised face flanges, the outer ring allows for proper centering of the gasket on the flange and prevents the gasket from being compressed beyond its design limit.



GAMSPIR® IO

A spiral wound gasket with inner and outer rings. Used for flat face and raised face flanges, the outer ring allows for proper centering of the gasket on the flange. This solution provides high stiffness and protects against the phenomenon of spiral buckling.

