



PLANIGRAPH™ LGR

Composition

The LGR gaskets offer an excellent performances for sealing the bonnet flanges of the valves and for sealing the heat exchangers. Improved permeability resistance can be achieved with the inner eyelet. For a perfect seal with this gasket it is recommended to use a thickness of 1.5 mm.

Characteristics

Flexible graphite C > 98,00% with smooth stainless steel core.

Applications

Graphite gasket for bonnet flanges and heat exchangers. The graphite doesn't work with oxidizing fluids.



Tech Data

Planigraph™ LGR

Graphite density	gr/cm3	1.0
Carbon Content	%	> 98.0
Ash Content	%	< 2.0
Material of insert	AISI	316L
Thickness of insert	mm	0.05
Compressibility	%	40 - 50
Recovery	%	> 7
Gas Permeability DIN 3535	cm3/min	< 0.6
Relaxation stress DIN 52913	N/mm2	> 45
Temperature max with steam	°C	550
Temperature max with weak oxidants	°C	450
Temperature min cryo	°C	-196
Maximum assembly load RT	N/mm2	60
Maximum operating pressure	bar	75

- Never use the product to the maximum temperature and pressure associated. Consult the manufacturer for further information
- With weakly oxidizing agents and hot air the temperature must be limited to 450 °C
- Graphite and carbon cannot be used with oxidizing fluids

Size	1.000 x 1.000 1.500 x 1.500	40" x 40" 60" x 60"
Thickness	0.5 ÷ 3.0	1/64" ÷ 1/8"

Planigraph™ LGR

LGR is a gasketing expanded graphite sheet with smooth insertion. The maximum pressure for using these gaskets is strongly correlated to the gasket sealing surface. It is always suggested to calculate the ratio between [De-Di] and the thickness of the gasket, where De and Di refer to the effective diameters of the parts of the gasket compressed by the flanges. The ratio must be at least 4 and in this case the maximum compression allowed on the gasket is 35 MPa. In any case the maximum load allowed on the gasket is 60 Mpa. For sealing on WN RF flanges LGR gaskets are suitable until pressure class 300 psi. The maximum operating pressure pointed in the grid is only for reference because the maximum assembly load requirements must always be met in correlation to the temperature and the active sealing surface (EN 1591-2: 2020). The dimensionals tolerances are +/-5.0%.



The information in this publication and otherwise provided to users is based on experience and is provided to the best of our current knowledge. Due to many factors which are beyond our knowledge and control affecting the use of the products, no warranties are given or are to be held implied with respect to such information. The operating limits shown in this publication do not constitute a statement that these values can be applied simultaneously. Do not use the product at the associated maximum temperature and pressure values. The maximum temperature can be sustained for short exposures in particular conditions. Specifications are subject to change without notice.

CARRARA®
GLOBAL SEALING SOLUTIONS

Carrara S.p.A.,
Via Provinciale 1/E - 25030 Adro - BS - Italia
tel. +39 030 7451121 / fax +39 030 7451130
www.carrara.it - info@carrara.it