

LeaderKAM Camprofile Gasket Style KV9

Parallel grooved core with fixed outer guide ring



Description

LeaderKAM Camprofile gaskets consist of a metallic core with machined concentric grooves. Both faces are produced with soft sealing layers consisting of either graphite, PTFE or Nova-Mica. However also metallic (non-ferro) layers of pure silver or aluminium can be produced.

Sealing Characteristics

- Excellent sealing characteristics for a wide range of seating stresses;
- Suitable for low torque flange-constructions;
- Blow out safe;
- High pressure and temperature range;
- Broad chemical resistance (pending on the metallic materials and sealing layers);
- Firesafe;
- Design suitable for fluctuating temperatures and pressures;
- Low leakage;
- Rigid construction and easy to install.



Application

(Petro-) Chemical Industry, Steam, On- and Offshore exploration, pipeline systems, pressure vessels, heat exchangers and coolers. LeaderKAM Camprofile gaskets have proven records in demanding application with heat-exchangers with fluctuating and cycling process conditions. Superb alternative for metal jacketed gaskets.

Chemical compatibility, pressure and temperature

LeaderKAM Camprofile Gaskets are suited for a wide variety of media, e.g. a pH range varying from 0-14.

Temperature range from -250 °C up to 450 degrees °C (steam 550 °C) with graphite layers. Nova-Mica layers can withstand temperatures of 900 °C.

Application/ compatibility guide is available on request.

Delivery options

All dimensions in a wide variety of materials are possible. Non-standard equipment gaskets can be manufactured up to a diameter of 6000 mm. EN10.204 3.1 certificates can be delivered on request, as well as NACE MR0175/ISO 15156 conformity statement.

Table 1: Technical data

Max. working pressure	450 bar	
Maximum pressure and temperatures limitations	acc. ASME B16.5	
Min- en maximum temperatures	see material table below	
M-value (ASME Boiler & Pressure Vessel code Div. I, section VIII, Appendix 2) :	2	(With graphite facings)
y-value (ASME Boiler & Pressure Vessel code Div. I, section VIII, Appendix 2) :	2500 psi (17 MPa)	(With graphite facings)
Minimum seating stress (Din 28090-1)	15 MPa	
Maximum seating stress (Din 28090-1)	500 MPa	
Gasket- and required flange roughness (Ra)	Ra = 3,2 - 6,3 micron	
Gasket- and required flange roughness (RMS)	RMS = 125-250	

Table 2: Materials

	Identification	Color coding	Temperature Range
	ASME B16.20	ASME B16.20	Degrees C.
Soft Filler materials			
Graphite	FG	Gray stripe	- 250 / + 450 (+ 550)
PTFE (Teflon®)	PTFE	White stripe	- 240 / + 260
Ceramic	CER	Light green stripe	- 50 / + 1000
Mica	NOVA-MICA	Light blue stripe	- 50 / + 900
Silver	SILVER	No colour	- 100 / + 750
Metallic Materials			
Carbon Steel	CRS	Silver	- 25 / + 500
SS304(L)	304(L)	Yellow	- 200 / + 550
SS316(L)	316(L)	Green	- 100 / + 550
SS321	321	Turquoise	- 200 / + 550
SS347	347	Blue	- 200 / + 550
Duplex (ASTM A182-F51)	31803	No colour	- 60 / + 300
Avesta 254 SMO (6Mo)	31254	No colour	- 100 / + 550
Carpenter 20 CB3	A20	Black	- 100 / + 500
Nickel 200	NI200	Red	-100 / + 450
Nickel 201	NI201	Red	-100 / + 550
Monel® / Alloy 400	MON	Orange	- 50 / + 500
Inconel® / Alloy 600	INC600	Gold	- 100 / + 650
Inconel® / Alloy 625	INC625	Gold	- 100 / + 800
Inconel® / Alloy X-750	INX	No colour	- 100 / + 700
Incoloy® / Alloy 800	IN800	White	- 100 / + 550
Incoloy® / Alloy 825	IN825	White	- 100 / + 800
Hastelloy® / Alloy B2	HAST B	Brown	-100 / + 500
Hastelloy® / Alloy C276	HAST C	Beige	-100 / + 600
Titanium	TI	Purple	-100 / + 350
Zirconium	ZIRC	No colour	-50 / + 900
1) This information is for general reference only. It does not take into consideration specific application conditions such as pressure or process fluid.			

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