



CONTROLLER ONE EVO

Composition

The CONTROLLER ONE EVO sealing ring kit consists of expanded mineral graphite Planigraph and GR80SGR braid. This set has been designed and manufactured to meet the growing demand for reliable products that comply with TA LUFT VDI 2440 Low Emission requirements. The graphite rings are stamped in the characteristic Cup & Cone section, which, when compressed, generates a thrust towards the stem and the chamber, improving the sealing level and meeting low emission requirements even with low clamping loads. CONTROLLER ONE EVO is made with pure graphite to ensure moderate weight loss at high temperatures, in accordance with EN14772 - Section 6.7 requirements.


Characteristics

This set of gaskets for industrial valves is designed for low emission applications with hydrocarbons, hydrogen, VOCs, VHAP, non-oxidizing chemicals, and steam. Its Cup & Cone configuration allows for maintaining a high seal even with reduced clamping loads. The pure graphite used offers superior resistance to high temperatures and operating loads, meeting the strictest requirements for industrial applications.

Applications

CONTROLLER ONE EVO is ideal as a stem sealing set for industrial valves in low emission applications. Thanks to its ability to maintain reliable sealing even in severe operating conditions and its chemical and thermal resistance properties, it is suitable for a wide range of industrial services, ensuring reliable performance and compliance with the highest safety and regulatory standards.

Tech Data

	P bar	lbf/in2	Vm/S	f/pm	pH	T°C	T°F
	300	4500	1	200	0÷14	-200 ÷ 450 / 650	-325 ÷ 840 / 1200

- Never use the product at its maximum rated temperature and pressure. Consult the manufacturer for further information.
- The peak temperature can be sustained only for short exposure periods.
- With weakly oxidizing agents and hot air, the temperature must be limited to 450 °C.
- With steam and non-oxidizing fluids, the temperature must be limited to 650 °C.
- Flexible graphite and carbon yarns shall not be used with oxidizing fluids.



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The range of graphite products for industrial valve stems offers a wide selection of models to ensure optimal choice in every situation. These gaskets are made from materials that meet rigorous industry standards, including ASTM F2168 and ASTM F2191, taking into account the main deviations provided for by IOGP standards and major oil and gas producers. The Carrara range ensures a level of certification suitable for every technical specification and sustainable application of graphite products.



The information provided in this publication, as well as that supplied to users in other forms, is based on our experience and communicated according to the best knowledge available. However, since numerous factors beyond our knowledge and control may influence the use of the products, no warranty, explicit or implicit, is given regarding such content. The operating limits indicated do not constitute confirmation that these values can be applied simultaneously. Avoid using the product at the maximum temperature and pressure limits. The maximum temperature is sustainable only for short periods under specific conditions. Specifications may be changed without notice. The images in the DS may not accurately represent the product's color and/or marking.



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