# CONTROLLER ONE EVO

## Composition

- **Intermediate rings:** rings made of expanded mineral graphite Planigraph
- **Top & Bottom rings:** graphite packing rings **GR80SGR**

## Characteristics

This gasket kit for industrial valves is designed for low-emission applications with hydrocarbons, hydrogen, VOCs, VHAPs, non-oxidizing chemicals, and steam.
CONTROLLER ONE EVO has been designed and manufactured to meet the demand for reliable products compliant with Low Emission requirements.
The graphite rings are molded in the characteristic **Cup & Cone** section, which, when compression load is applied, generates a thrust toward the stem and the stuffing box, increasing the sealing level and meeting TA LUFT VDI 24040 low emission requirements even with low tightening loads.
CONTROLLER ONE EVO is manufactured from ultra-pure graphite, ensuring moderate weight loss at high temperatures in accordance with EN14772 – section 6.7, while offering superior resistance to high temperatures and operational loads, meeting the most stringent 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 | lb/in2 | V m/s | fpm | pH | T°C | T°F |
|---|---|---|---|---|---|---|---|
| | 300 | 4500 | 1 | 200 | 0 ÷ 14 | -200 ÷ 450 / 650 | -328 ÷ 840 / 1200 |

- Never use the product at its maximum rated temperature and pressure simultaneously. Consult the manufacturer for further information.
- The peak temperature can be sustained only for short exposure periods.
- When used with weakly oxidizing agents or hot air, the temperature shall not exceed **450 °C**.
- When used with steam or non-oxidizing fluids, the temperature shall not exceed **650 °C**.
- Flexible graphite and carbon yarn 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 exactly represent the product, its color and/or marking.

CARRARA® GLOBAL SEALING SOLUTIONS

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