# CONTROLLER ONE

## Composition

- **Middle Rings**: sealing rings in pure PLANIGRAPH graphite with **Cup & Cone** cross-section, molded with differentiated densities.
- **Top & Bottom Rings**: braided rings made of Ni-Cr reinforced carbon yarns, type **Incobraid® GR8807**.

## Characteristics

This set of Cup & Cone-configured packings is composed of expanded graphite rings with high carbon content (C > 99%), molded with differentiated densities, and braided rings in the Top & Bottom positions made of Incobraid® GR8807, which ensures exceptional wear and extrusion resistance.
The innovative configuration of Controller One enables significant radial expansion of the graphite rings even with moderate tightening loads.

## Applications

Controller One is especially suitable for applications requiring low VOC and HAP emissions. Its extrusion resistance and ability to adapt to various valve geometries make it a reliable choice for critical applications. The packing is designed for use in industrial valves requiring frequent operation. Graphite stem packing suitable for a wide range of industrial applications.

## Tech Data

| | P bar | lbf/in2 | Vm/S | f/pm | pH | T°C | T°F |
|---|---|---|---|---|---|---|---|
| | 300 | 4500 | 1 | 200 | 0 ÷ 14 | -200 ÷ 450 / 650 | -330 ÷ 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**.
- Flexible graphite and carbon yarn shall not be used with oxidizing fluids.



## CONTROLLER ONE

**Controller One** is an innovative stem packing made of graphite rings with differentiated cross-sections and densities, designed for industrial valves to ensure safety and reliability in compliance with VOC and HAP emission containment regulations.
Its advanced configuration and use of high-quality materials ensure optimal performance across a wide range of industrial applications.

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

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