



# CONTROLLER ONE EVO PLANIGRAPH ESP

## Composition

- **Middle rings:** expanded graphite rings **Planigraph<sup>ESP</sup>**
- **Top & Bottom rings:** **GR8622<sup>ESP</sup>** braided graphite rings

## Characteristics

**CONTROLLER ONE EVO PLANIGRAPH<sup>ESP</sup>** is manufactured with modified **Planigraph<sup>ESP</sup>** graphite made according to strict guidelines. Maintaining the packing weight is essential in order to meet standards and minimize fugitive emissions in the long term.


The excellent sealing capabilities of **CONTROLLER ONE EVO PLANIGRAPH<sup>ESP</sup>** and the reduced fugitive emissions are born from a completely brand-new approach. This material is characterized by a reduced coefficient of friction and low permeability, better than those achievable with the current technology using lubricants, without compromising the chemical integrity of the material.

**CONTROLLER ONE EVO PLANIGRAPH<sup>ESP</sup>** is a Low Emissions ISO 15848 BH C01/C02 approved graphite packing, providing a valid solution to reduce OEM stock seal types. It can be used for all Oil & Gas, Cyogenic, H<sub>2</sub> and most Chemical services, as well as steam.

## Applications

**CONTROLLER ONE EVO PLANIGRAPH<sup>ESP</sup>** is a graphite stem packing seal designed for low-emission services in industrial valves. It is suitable for use with hydrocarbons, cryogenic, hydrogen, VOCs, VHAPs, non-oxidizing chemical compounds, and steam. **CONTROLLER ONE EVO PLANIGRAPH<sup>ESP</sup>** is rated for up to 500 bar. It is designed to operate under all pressure conditions covered by classes 150 to 2500 lbs, thanks to its special wiper rings, GR8622<sup>ESP</sup> style (for extreme applications, such as those requiring API 5000 and API 10000 standards, please contact the Carrara Technical Department).

## Tech Data

	P bar	lb/in2	V m/s	fpm	pH	T°C	T°F
	500	7500	1	200	0 ÷ 14	-200 ÷ 450 / 650	-328 ÷ 840 / 1200

- Never use the product at its maximum rated temperature and pressure. Consult the manufacturer for further information.
- 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.



## CONTROLLER ONE EVO PLANIGRAPH ESP

### APPROVALS

- ISO 15848 BH-C01/C02-400°C (750°F)
- Limited detrimental materials and Ash
- Weight Loss API std 622 3rd Ed., EN 14772 S.6.7, FSA-G-604-07 METHOD B
- TQ39 - 50.000 h Target Temperature 408°C
- Fire Test API 607, API 6FA, ISO 10497
- Corrosion Test RT and HT
- MESG 85/203 and 85/204
- H2 Compatible
- PTFE Free
- PFAS Free
- Wet Lubricant Free



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