

RELY ON EXCELLENCE

Espey WKA1200-Cartridge

The proven carbon floating ring seal.
Optimized to meet the highest demands.



PLUG & RUN

Maximum operational reliability. Optimized integration.

With the new Espey WKA1200-Cartridge, EagleBurgmann Espey is setting a new standard for carbon floating ring seal technology. Building on the success of the Espey WKA1200, the new cartridge version is the first to combine the shaft sleeve, seal, and housing components into a fully balanced, ready-to-install unit.



Plug & Run: greater efficiency and reduced downtime.

- Improved handling thanks to integrated components
- Simplified installation
- Easier maintenance
- Minimizes the risk of component damage



Modularity – optimized for greater flexibility.

- The modular chamber design allows for customer-specific adaptations
- More compact design for tight installation spaces
- Durable ring design with a robust anti-rotation device
- Contactless, low-wear technology ensures maximum operational reliability



Robust and reliable, even under extreme conditions.

- Sliding speed up to 240 m/s
- Temperatures up to 250°C
- Pressures up to 240 bar

The new service concept: Precisely tailored to your needs!

The Carbon Floating Ring Competence Center at EagleBurgmann Espey offers customized services for the Espey WKA1200-Cartridge. Simply select the scope you need.

- I. **Quality control** of the entire unit: This includes registration, visual inspection, cleaning, reassembly, and a report.
- II. **Reconditioning**: Our technically skilled service staff will recondition the chambers and/or shaft sleeves. Additionally, the seal can be recoated.
- III. **Partial replacement**: Sometimes, replacing technical parts partially is the most sustainable and efficient solution. Examples include screws, springs, secondary seals, sealing rings, and chambers.

More information on the areas of application and all technical data can be found here.



Why is the shaft sleeve so important for compressors?

The shaft sleeve is a central functional element in the sealing unit. It not only protects, but also actively contributes to the operational safety and longevity of the entire system.

- **Shaft protection**

The shaft sleeve prevents direct contact between the shaft and the carbon brushes. This is especially useful during startup or malfunctions, when brief contact may occur.

- **Preventing shaft damage**

Even when the seal is not in contact with the shaft, vibrations, particles, or thermal expansion can leave marks on it. In such cases, the sleeve provides wear protection.

- **Hardness and material quality**

Long-term durability against high pressures, temperatures, and sliding speeds requires a defined surface hardness of the shaft sleeve.

- **Interchangeability and ease of maintenance**

Unlike the shaft, the sleeve can easily be replaced in the event of wear or damage. This significantly reduces maintenance costs and machine downtime.

- **Optimal sealing surface**

The sleeve's design provides a precise, rotationally symmetrical sealing surface, which optimizes the performance of the contact-less carbon floating ring seal.

- **Uniform Balancing**

At EagleBurgmann Espey, balancing every shaft sleeve is standard practice. This ensures smooth, low-vibration operation. We guarantee the stable operation of our seals, even under the most demanding conditions.

Would you like more information or technical advice? Contact us.

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EagleBurgmann – Leading Innovation in Sustainable Sealing Solutions

We are your leading international specialist in industrial sealing technology. We combine innovative technologies, digital solutions and our passion and enthusiasm to create sophisticated and reliable sealing systems. Our products help make entire industries safer and more sustainable. 6,000 employees create added value for our customers around the world with their enthusiasm and competence. EagleBurgmann is a joint venture between the German Freudenberg Group and the Japanese Eagle Industry Group.

Rely on excellence.

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