SULZER

- Transition piece
- Combustion liner

Combustion Components Equivalent to GE MS9001E

Sulzer provides design and manufacturing of new gas turbine components in both hot and cold sections. We focus on lifetime extension and performance improvement of your equipment. We have unique insight into designing a high quality product that is compatible and interchangeable with the original equipment. All combustion components include installation hardware suitable for installation in PG9171E gas turbines.

Transition piece

The transition piece is manufactured through a hot pressing process using the solid-solution-strengthened super alloy Nimonic C-263™. The alloy has high strength and corrosion resistance along with good formability and high-temperature ductility in welded structures.

The inner surface of the transition piece is coated with a Thermal Barrier Coating (TBC) to allow firing temperatures up to 1,124°C. On the inlet mouth of the transition piece a hard face coating is applied to prevent from rubbing damage. Optionally, the transition piece can be upgraded with the Extendor™ equivalent kit.

Combustion liner

The combustion liner is manufactured through a cold rolling process using the solid-solution-strengthened super alloy Hasteloy-X™. The alloy possesses an exceptional combination of oxidation and corrosion resistance and high-temperature strength.

The slot-cooled combustion liner shows an improved cooling and allows firing temperatures up to 1,124°C. Additionally, impingement cooling is applied.

The inner surface of the combustion liner is coated with a Thermal Barrier Coating to lower the metal temperature and to reduce thermal gradients in the material. Both the advanced cooling and the coating reduce stress concentrations in the liner which result in an increased life.

A hard face coating is applied on the spring seals, preventing wear during operation.

Optionally, the combustion liner can be upgraded with the Extendor™ equivalent kit.

Transition piece	
Firing temp.	Up to 1,124°C (2,055°F)
Airfoil / Design	Extendor™ equivalent optional
Cooling	
Material	Nimonic C-263™
Coating	TBC on inner surface Hard face coating on inlet mouth
Sealing	Floating seals and side seals
Auxiliaries	Locking hardware included

Combustion liner	
Firing temp.	Up to 1,124°C (2,055°F)
Airfoil / Design	Extendor™ equivalent optional
Cooling	Slot cooling
Material	Hasteloy-X™
Coating	TBC on liner body and cap Hard face coating on spring seal
Sealing	Spring seals
Auxiliaries	Locking hardware included

Services:

- Component refurbishment
- Lifetime extension
- Field service
- New parts manufacturing
- Training programs
- Rotor overhaul and refurbishment
- Long term service agreements
- Condition monitoring
- Turbine controls
- Engineering support

About Sulzer

Sulzer provides cutting-edge services and solutions for rotating equipment dedicated to improving customers' processes and business performances. When pumps, turbines, compressors, generators, and motors are essential to operations, customers need a service partner they can trust. With our technically advanced and innovative solutions, we give our customers the assurance they need to focus on their operations. Customized solutions help to reduce maintenance time and cost. Our partners' business demands are ever increasing and changing but they can rely on our experts to provide the optimal solution to improve operational efficiency and reliability. We provide high-quality services at competitive prices and delivery times.

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