

- Fuel nozzles
- Liner and cap
- Transition pieces

Combustion Components Equivalent to GE MS6001FA+e

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 DLN 2.6 combustion components include installation hardware suitable for installation in PG6111FA gas turbines.

Fuel nozzles

The DLN 2.6 fuel nozzle configuration consists of five outer fuel nozzles and one center fuel nozzle. The nozzles are made from austenitic stainless steel. The fuel nozzle features a swirler that is manufactured through an investment casting process. The swirler is fully faired and the tip of the fuel nozzles is fused which makes the fuel nozzles flashback resistant. The fuel nozzles can be supplied in a gas only and dual fuel configuration.

Fuel nozzles	
Firing temp.	Up to 1,327°C (2,420°F)
Design	Faired swirler, fused tip design
Material	Austenitic stainless steel
Sealing	E-sealing, C-sealing
Auxiliaries	Locking hardware included
Interchangeability	PG6111FA (6FA+e/6FA.03)

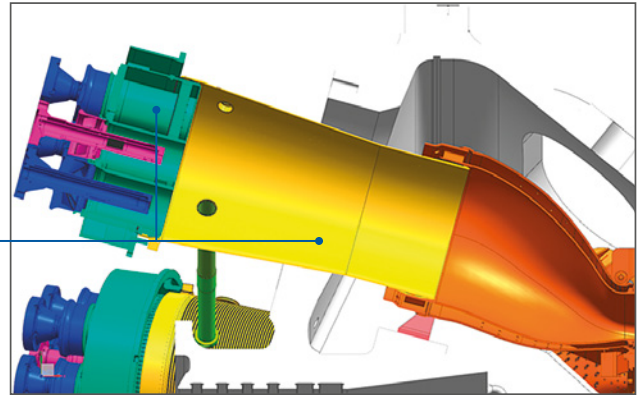
Liner and cap

The liner is manufactured from Nimonic 263™ sheet. The conically shaped liner features a turbulated outer wall and advanced outlet cooling to enhance heat transfer in the high temperature areas. Internally, a MCrAlY and Ther-

mal Barrier Coating (TBC) is applied to provide superior corrosion and oxidation resistance and reduce metal temperatures. Chromium Carbide (CrC) coatings are applied on the interfaces with the liner cap and the transition piece.

The liner cap is made out of stainless steel. The downstream side of the cap features an effusion cooled plate that is made from HastelloyX™. Chromium Carbide coatings are applied on the interface with liner (Hula spring seals) .

Liner and liner cap	
Firing temp.	Up to 1,327°C (2,420°F)
Design	Conical shaped liner design
Cooling	Liner: Turbulated outer wall; advanced outlet cooling, Cap: effusion cooled
Material	Nimonic 263™ (liner), HastelloyX™
Coating	Liner: Internal: MCrAlY + TBC; Hardface coating at interfaces with transition piece and liner cap Cap: Hardface coating spring seals
Sealing	Spring sealing
Auxiliaries	Locking hardware included



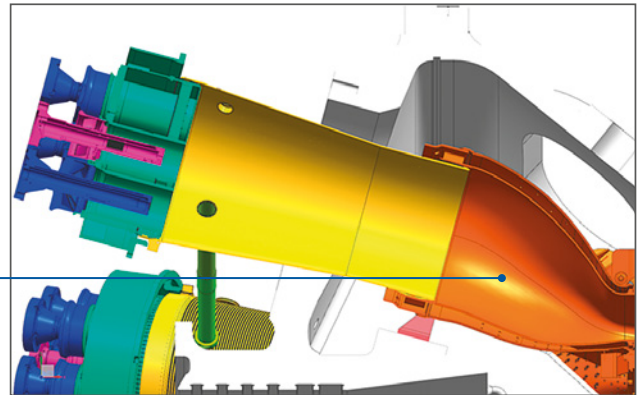
Transition pieces

The transition piece is made from Nimonic 263™ sheet body surrounded by an AISI 304 impingement cooling sheet. Both shaped sheets are manufactured by cold pressing. The exit of the transition piece is film cooled. Sulzer

applies a MCrAlY and Thermal Barrier Coating to the inner surface of the transition piece. This coating system has superior oxidation and corrosion resistance for base load as well as peak load applications. The application of

TBC on the internal surface produces a life extension resulting in improved durability. Chromium Carbide coatings are applied on the interfaces with liner and flow sleeve to reduce wear and thereby extend part life.

Transition pieces	
Firing temp.	Up to 1,327°C (2,420°F)
Design	Impingement cooled TP body design
Cooling	Impingement cooled body; film cooled outlet
Material	Nimonic 263™ (TP body); AISI-304 (impingement sleeve)
Coating	Internal: MCrAlY + TBC Hardface coating at interfaces with flow sleeve and liner
Sealing	Floating seals
Auxiliaries	Locking hardware included



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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