

## Introduction of MAN EcoNozzle

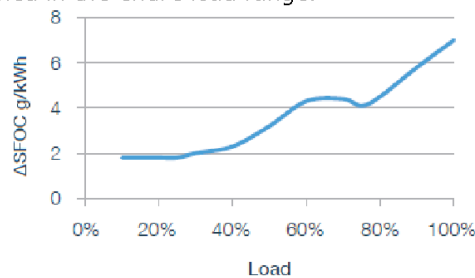
We are pleased to introduce the new slide type fuel valve atomizer [MAN EcoNozzle] for S50MC-C engines. The EcoNozzle has an optimized fuel injection pattern for specific fuel oil consumption (SFOC) while keeping NOx emissions within NOx Tier II limits.

The MAN EcoNozzle achieved excellent results for SFOC reduction which were confirmed at the joint test with the licensor MAN Energy Solutions (MAN ES) in our factory.

### 1. Reduction of Fuel consumption

SFOC reduction of 2-7g/kWh was confirmed in the entire load range.

Load[%]	Gain[g/kWh]
100	7
85	5
75	4
50	3
25	2



### 2. Maintenance and Replacement schedules

The maintenance procedure and replacement schedule (TBO) are the same as the conventional slide type fuel valve.

New atomizer maintenance tools will be supplied and must be used instead of the original tools as the diameter of the new atomizer holes has changed.

### 3. NOx regulations

During testing, detailed measurement of NOx emission characteristics were carried out, and full compliance with NOx Tier II limits was confirmed.

Therefore, Onboard NOx measurement is not required for MAN EcoNozzle installation.

### 4. Scope of supply

- Atomizer [MAN EcoNozzle] and spindle guide
- Cleaning tool for MAN EcoNozzle
- NOx documentation (certification of NOx compliance)

### 5. Applicable engines

S50MC-C Mk.7 / 8 with NOx Tier II compliant engine

### Requests and inquiries

For inquiries about MAN EcoNozzle, please contact your local sales representative.



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