

Considerable Emission Reductions and Improved Operation with Slide Fuel Valves

MAN B&W Diesel A/S are now introducing their slide fuel valve as standard on new engine types. This type of fuel valve has shown significant savings, it gives a cleaner engine, lower emissions and lower fuel consumption.

The slide fuel valve both optimises the combustion of the fuel and ensures a cleaner engine. The consequential reduction of the HC emission (around 30%) and of particulate matter results in less smoke formation.

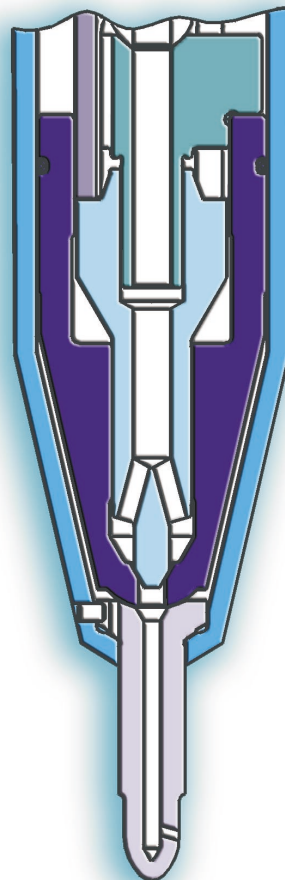
Furthermore the engine benefits from reduced fouling of piston topland and exhaust gas boiler and as can be seen in the illustration on page two this gives an excellent condition of the exhaust valve duct.

As the fuel valve, including fuel valve nozzle, is covered by IMO's NO_x regulation, this means that with the slide fuel valves you can meet IMO rules on NO_x emissions without problems.

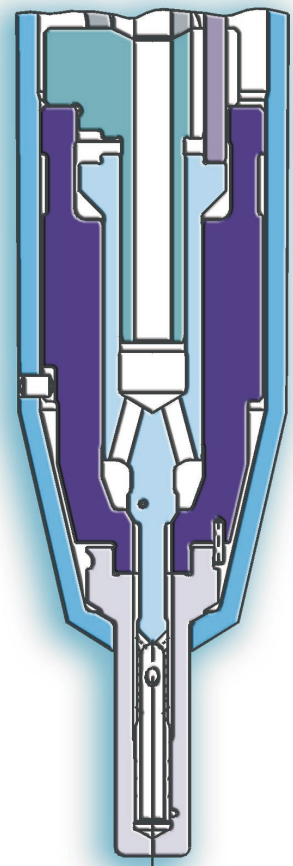
The slide fuel valves are available for retrofit of engines of 60 cm bore and up, and will be installed as standard on all new engines

It is very advantageous to the ship-owner to use slide fuel valves.

Conventional fuel valve



Slide fuel valve



Case story

Swedish owner Wallenius Lines have installed slide fuel valves with excellent service results on a series of S60MC engines.

Per Croner, Technical Director of Wallenius Lines, says, "The first slide valves were tested in year 2000 during workshop trials in Japan. The results were better than expected, 12.5 g/kWh NO_x at 75% engine load without any increase in fuel consumption! The fact that MAN B&W Diesel has succeeded in reducing NO_x emissions to the normal level of a four-stroke engine without increasing the fuel consumption and without any secondary method such as using urea as a catalyst, must be considered an extraordinarily good result!"

In fact, measurements on board one of the vessels, the 'Don Juan', later confirmed a reduction of NO_x emissions of 30% from previously 19 g/kWh down to 13.4 g/kWh.

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Clean exhaust valve duct with slide fuel valve 890 hours after installation