

Slide fuel valve

This type of valve reduces the amount of waste products, gives better combustion properties and is a must-have for slow-steaming operation.

The spray pattern of the fuel is further optimised leading to an improved and more complete combustion process. This results in less deposits throughout the gas ways and a reduction in overall emissions, such as HC, and particulate matter. The visible smoke level is also greatly reduced as a result of the improved combustion.

The need for maintenance is reduced with the cleaner gas ways, and testing procedures are simpler thanks to the improved design

Cleaner exhaust gas ways

The following photograph illustrates key benefits of retrofitting a slide fuel valve. The left side of the photo shows an exhaust valve bottom piece with substantial deposits caused by an incomplete combustion process. The right side of the photo shows the same valve seat after installation of a slide fuel valve. The photo was taken after 890 running hours with the new slide fuel valve. No additional cleaning or scraping was done when retrofitting the new type of fuel valve.

What is an Approved Method (AM) for Everllence B&W Engines

As slide fuel valves often reduce NO_x emissions, they are also used in the development of AMs. An AM is a method to document that it will bring an engine in compliance with the present Tier I NO_x limits.

An AM developed by Everllence comprises a slide fuel valve upgrade and documentation. An AM File (AMF) will be issued. The AMF is similar to a NO_x Technological File issued for engines built after 2000, but in a reduced format.

Please contact your Everllence PrimeServ office for more details.



Figure 1: Impact on exhaust valve seat with slide fuel valve before and after retrofitting



Figure 2: Slide fuel valve

Slide fuel valve

Optimized low load performance,
cleaner combustion, and less emission

Key benefits

- Improved low load performance
- Cleaner combustion chamber
- Cleaner exhaust gas pathways
- Less visible smoke formation
- Lower HC, and particulate emission
- Improved cylinder condition

Scope of supply

- Set of slide fuel valves
- Amendment to Technical File
- Adaptor unit for test rig
- Maintenance tools
- Modification tools (if required)

Applicable to

All Everllence B&W MC/MC-C engines

More information

Contact your local Everllence PrimeServ office for more information about the product and how the upgrade can improve your specific engine.

Everllence PrimeServ

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